Alibaba Cloud Quick BI

User Guide

Issue: 20190816

MORE THAN JUST CLOUD |

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning informatio n, supplementary instructions, and other content that the user must understand.	O Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus , page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the cd / d C :/ windows command to enter the Windows system folder.
Italics	It is used for parameters and variables.	bae log list instanceid Instance_ID
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	ipconfig [-all -t]

Style	Description	Example
{} or {a b}	It indicates that it is a required value, and only one item can be selected.	<pre>swich {stand slave}</pre>

Contents

Legal disclaimerI
Generic conventions I
1 Organization management
1 Urganization management
1.1 Manage the organization
1.1.2 Modify the information of an organization
1.1.2 Mounty the mornation of an organization
1.1.5 Add, search, edit, and remove members
1.1.4 View the workspaces that a member belongs to
1.1.0 rags
1 2 Manage workspaces
1.2 Manage workspaces
1 2 2 Create a workspace
1.2.2 Oreate a workspace
1.2.6 Modely the information of a workspace
1.2.5 Transfer a workspace
1.2.6 Leave a workspace 14
1.2.7 Workspace member overview
1.2.8 Add. edit, search, and delete workspace members
2 Data modeling
2.1 Overview of data modeling
2.2 Data source management
2.2.1 Manage data sources22
2.2.2 Create cloud data sources
2.2.3 Create a user-created data source35
2.2.4 Upload local files53
2.2.5 Edit, search, and delete data sources
2.2.6 Search for tables in a data source60
2.2.7 View the tables in a data source60
2.2.8 Synchronize data sources61
2.3 Dataset management62
2.3.1 Manage datasets62
2.3.2 Create a dataset63
2.3.3 Edit dimensions and measures66
2.3.4 Change field types 70
2.3.5 Toolbar74
2.3.6 Add a grouping field74
2.3.7 Join data tables75
2.3.8 Enable table scan79
2.3.9 Search for and delete datasets79

2.3.10 Rename, transfer, and set security levels	80
2.3.11 Manage datasets	81
2.3.12 Dataset row-level permissions	
3 Create dashboards	
3.1 Dashboard overview	83
3.2 Dashboard basic operations	
3.2.1 Basic dashboard operations	
3.2.2 Switch datasets	
3.2.3 Search for the dimensions field and the measures field	
3.2.4 Configure a chart	
3.2.5 Filter by fields	
3.2.6 Sort data	96
3.2.7 Standard	
3.2.8 Fullscreen mode	
3.3 Visualization analysis	
3.3.1 Drilling, filter interaction, and hyperlink	101
3.3.2 Metric analysis	112
3.4 Common widgets	116
3.4.1 Filter bars	116
3.4.2 Text area	127
3.4.3 IFrame	127
3.4.4 Tab	
3.4.5 Image	129
3.5 Create charts	130
3.5.1 Create a dashboard	
3.5.2 Line charts	133
3.5.3 Area charts	
3.5.4 Vertical bar charts	
3.5.5 Combination charts	144
3.5.6 Horizontal bar charts	147
3.5.7 Pie charts	151
3.5.8 Bubble maps	154
3.5.9 Colored maps	157
3.5.10 Cross tables	161
3.5.11 Pivot charts	170
3.5.12 Gauges	
3.5.13 Radar charts	177
3.5.14 Scatter charts	
3.5.15 Bubble charts	183
3.5.16 Funnel charts	
3.5.17 Kanbans	
3.5.18 Treemaps	
3.5.19 Polar diagrams	
3.5.20 Word clouds	
3.5.21 Tornado-leaned funnel charts	201

3.5.22 Hierarchy charts	
3.5.23 Flow analysis charts	
3.5.24 LBS heat maps	212
3.5.25 LBS bubble maps	215
3.5.26 LBS flying line maps	218
3.5.27 Progress bars	
3.6 Share dashboards, make dashboard public, transfer dashb	oards, add
dashboards to favorites, and change the security level	
4 Create workbooks	
4.1 Workbook overview	230
4.2 Basic workbook operations	230
4.2.1 Create a workbook	
4.2.2 Configure workbooks	
4.2.3 Add filter bars	236
4.2.4 Highlight pivot tables	237
4.3 Search, move, and delete workbooks	
4.4 Manage workbooks	238
5 BI portals	240
5.1 BI portal overview	240
5.2 Create a BI portal	
5.3 Configure page settings	
5.4 Configure menus	
5.5 Share, rename, and transfer BI portals and change security le	vel 245
5.6 BI portal menu permissions	
6 Privilege control	
6.1 Basic concepts of permission management	
6.2 Configure row-level permissions	248
6.3 Configure BI portal menu permissions	253
7 Email subscriptions	
7.1 Create an email subscription	
7.2 Manage email subscriptions	

1 Organization management

1.1 Manage the organization

1.1.1 Basic concepts about organization management

Organization management is a feature provided by Quick BI Pro and Quick BI Enterprise Standard that allows you to develop data collaboratively with other members in the organization. Quick BI Pro and Quick BI Enterprise Standard are officially released. Users can upgrade Quick BI Basic to a higher Quick BI version in the Quick BI console. The system automatically creates an organization for you after the upgrade.

What is an organization?

Generally, organizations refer to small and medium-sized enterprises (SMEs), public institutions, schools, or departments of large companies.

If your organization values data security highly and data analysis needs to be performed collaboratively by more than 10 members, we recommend that you purchase Quick BI Pro. Quick BI Pro brings the following benefits:

- Members have different access permissions to reports based on the departments that they belong to.
- Members have different access permissions to a report based on their roles.

We recommend that you use Quick BI Basic if the number of users is fewer than 10.

Organization member management refers to adding Alibaba Cloud users that need to work collaboratively into the same organization.

Organization management includes:

- · Managing organizational information
- · Managing member information
- Managing workspaces

Only administrators of an organization have permissions to manage the members of the organization. The creator of an organization is set as an administrator by default.

The roles of members in an organization include administrator and user.

1.1.2 Modify the information of an organization

Administrators of an organization can modify the information of an organization.

Context

Procedure

- 1. Log on to the Quick BI console.
- 2. Select Settings > Organization > Basics.

🤁 Quick Bl 🔇 Quic	k BI Standard 👰	My Items	Workspace	Guide	Subscriptions	¢	Ö	
:							Settin	195
Org Settings	Organization Basics Membe	rs User Groups	AccessKey					
R Organization								
Workspaces	n ar sa i s							

3. Modify the information of the organization manually as shown in the following figure.

Organization Organization Inform	Basics Members User Groups	AccessKey		
Name	Org_2017	Description	DefaultOrganization	
	The name must be 1 to 50 characters in length and can contain letters, numbers, Chinese characters, underscores (_), forward slashes (/), backslashes (\), vertical bars (]), parentheses (()), and square brackets ([]).			
Created At	11/29/2017, 21:52:45			
Owner	HongKong			
	Save Leave Organization			

4. Click Save to complete the modifying of the information of the organization.

1.1.3 Add, search, edit, and remove members

You can add a member to an organization by adding an Alibaba Cloud account or RAM user. You can use the import members function to add multiple members to an organization. You can also search for or remove members.

Add a member

Add an Alibaba Cloud account

1. Log on to the Quick BI console.

- 2. Choose Settings > Organization > Members.
- 3. Click Add Member as shown in the following figure:

Organization Basics	Members	User Groups	AccessKey				
				O,	Import Members	Add Member	Manage Tags

4. On the Add Member page, click the Tenant Account tab.



Make sure that you enter an account ID. An account ID is a numeric string.

5. Enter the Alibaba Cloud account and an alias for the member. You can select Set As Admin to specify the member as an administrator, as shown in the following figure:

Tenant Account	RAM User	
* Tenant Account	Enter a valid Apsara Stack tenant account.	
	The account name cannot contain colons (:).	
* Alias	Enter a unique alias.	
	The alias must be 1 to 50 characters in length and	d can
	contain letters, numbers, Chinese characters,	
	underscores (_), forward slashes (/), backslashes	$(\backslash),$
	vertical bars (), parentheses (()), and square br	acket
	([]).	
	Set as Admin	

Cancel OK

6. Click OK to add the member.

Add a RAM user

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > Members > Add Member.
- 3. Click the RAM User tab.

4. Enter the Alibaba Cloud account, the RAM user, and an alias. You can select Set As Admin to specify the member as an administrator, as shown in the following figure:

Note:

Make sure that you enter an account ID. An account ID is a numeric string. For RAM users, enter the RAM username in "RAM username@Default domain or enterprise alias.onaliyun.com". For example, if your RAM user account is zhangsan@.test.onaliyun.com, enter zhangsan.

Add Member	
Tenant Account	RAM User
* Tenant Account	Enter a valid Apsara Stack tenant account.
* RAM User	The account name cannot contain colons (:). Enter a valid RAM user.
* Alias	The account name cannot contain colons (:).
	The alias must be 1 to 50 characters in length and can contain letters, numbers, Chinese characters,
	underscores (_), forward slashes (/), backslashes (\), vertical bars (), parentheses (()), and square brackets ([]).
	Set as Admin

Cancel

ок

5. Click OK to add the member.

Import members

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > Members.

3. Click Import Members, as shown in the following figure:



4. Click Upload Excel to upload a list of members from the local disk, as shown in the following figure:



5. Click OK to import the members.

Search members

You can search for members by alias or Alibaba Cloud account.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > Members.
- 3. Enter an alias or Alibaba Cloud account into the search bar, as shown in the following figure:

Organization Bas	ics Members	User Groups	AccessKey				
			Q Search by alias or a	ccount. Imp	port Members	Add Member	Manage Tags
Account≑	Alias 🗢	Activ	vated ⑦ 🗢 Joined At 🌣	Workspace 🗢	Role¢	A	Actions

4. Click the Search icon to search for the member.

Edit a member

Administrators can edit the information of members.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > Members.
- 3. Select a member, and click Edit in the Actions column.

0	rganization	Basics	Members	User Groups Acces	ssKey	Q Im	port Members	Add Member Manage Tags
	Account≑		Alias≑	Activated () 🗢 Joined At 🌩	Workspace \Rightarrow	Role¢	Actions
	AVIOE		ASO!	No	1/10/2019, 22:20:26	R	Admin	Edit Remove Edit Member Tags

4. You can edit the alias of the member, and choose whether to specify the member as an administrator by setting the Set as Admin option.

Edit User Info	×
* Tenant Account	5894112300153210
* Alias	3094112300133310
	The alias must be 1 to 50 characters in length and can contain letters, numbers, Chinese characters, underscores (_), forward slashes (/), backslashes (\), vertical bars (), parentheses (()), and square brackets ([]).
	Set as Admin
	Cancel

5. Click OK to submit the changes.

Remove a member

Administrators can remove members. The remove operation is irreversible. Use with caution. To rejoin an organization, you must contact an administrator to add you to the organization as a member.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > Members.
- 3. Select a member, and click Remove in the Actions column.

Note: If the member is in a workspace, the system prompts the following error message:							
BI Sta	indard 🔵	8 You cannot remove th	e organization ow workspace	ner from the organization. Guide Subsci	ipuons		🕫 ଉ 🔅
Organization Basics Members User Groups AccessKey		ey	Q. Impor	t Members	Add Member Manage Tags		
	Account 🗢	Alias 🗢	Activated ⑦ 🗢	Joined At 🗢	Workspace 🗢	Role≑	Actions
	AWDE	A607	No	1/50/0019, 23:59:36	R	Admin	Edit Remove Edit Member Tags
[N294112328114318	1094312020310210	70	W202006-105032	R	Admin	Edit Remove Edit Member Tags

You cannot remove a user who is a member of a group workspace. For more information about removing a member from a workspace, see #unique_8/unique_8_Connect_42_section_qgp_tzq_pgb.

4. Click OK to remove the member.

1.1.4 View the workspaces that a member belongs to

You can view the workspaces that a member belongs to by clicking the corresponding Workspace icon.

Context

A blue icon indicates that the member belongs to at least one workspace. A grey icon indicates that the member does not belong to any workspaces.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Org Units > Members.
- 3. Select a member and click the Workspace icon (blue) in the Workspace column.

4. View the workspaces that the member belongs to as shown in the following figure.

					Q	Import Members	Add Member Manage Tags
Account©		Alias 🗢	Activated ⑦ 🗢	Joined At‡	Workspace	Role⇔	Actions
AWDE		ASDF	No	1/10/2019, 22:20:26	R	Admin	Edit Remove Edit Member Tags
Workspace			×	8/27/2018, 10:50:22	R	Admin	Edit Remove Edit Member Tags
Alias	ASDF			Items Per Pag	e: 10, Total Pages: 1, T	otal Items: 2 First	Previous 1 Next Last 1
Workspace		Owner					
		5094112100153210					
DefaultWorks	Dace	ASDF					

5. Click OK to close the dialog box.

1.1.5 Tags

Member tags are used to set dataset row-level permissions. This topic describes how to manage member tags. For more information about the row-level permission setting, see #unique_11.

Add a tag

You can use the import members function to add tags, as shown in the following figure:



Click Download Template to download the member template. In this example, the member information is as follows:

**	2		
Account	Nickname	tag_tagArea	tag_tagProvince
example1@aliyun.com	example1	East	Anhui
example20aliyun.com	example2	East	Anhui



For members that do not need the row-level permission setting, set their tags to \$ ALL_MEMBERS\$.

Manage tags

You can manage tags as shown in the following figure:

Organization Bac	Manage Member Ta	ags	;	×		
	Tag	Description	Actions		Import Members	Add Member Manage Tags
Account≑	example		Delete	ace	Role ≑	Actions
AADS.			Cancel OK		Admin	Edit Remove Edit Member Tags
N96112120181718	1041010500	chicola Pen 8/	/27/2018, 10:50:22		Admin	Edit Remove Edit Member Tags
			Items Per Page: 10, Total Pa	ges: 1, Tot		evious 1 Next Last 1 GO

Edit a tag

- 1. Select a member that you need to set the row-level permission for, and click Edit Member Tags.
- 2. On the edit member tags page, enter the tag values, and then click OK, as shown in the following figure:

0	rganization _{Bas}	Edit Member Tags			×			
		example Use comm				Import Member	Add Member	Manage Tags
	Account			Cancel	ОК	ace≑ Role≑	Ac	tions
	KANSA	AGDE	No	1/10/2019, 22:20:26	*	Admin	Edit Remove f	Edit Member Tags
			Yes	8/27/2018, 10:50:22	R	Admin	Edit Remove B	Edit Member Tags

1.1.6 Create a user group

Members in an organization may belong to different departments, such as the sales, operations, and technology departments. They may also have different roles, such as analysts, project managers, and project directors. You can create multiple user groups for these members. A member can be added to multiple user groups. You can then grant these user groups the access permission to datasets and BI portals as needed.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Organization > User Groups.

3. On the user groups page, click the Add Child Group icon.

😍 Quick Bl 🔇 Quic	k BI Standard 👰	My Items Wor	kspace Guide	Subscriptions	¢	@ @ 📀
÷	Organization					
Org Settings	Basics	Members User Groups	AccessKey			
R Organization	User Groups		Group Members			Q Add User
Workspaces	Groups	え 向	Name	Grou	р	Actions

4. On the child group page, enter a group name and then click OK.

Add Child Group		×
Parent Group Name	Groups	
	Cancel	ЭК

After creating the child group, you can click Add User to add users to this group.

User Groups Parent Group Groups			
			Q Add User
Groups Username V	- 1	Group	Actions
Cancel	<mark>ОК</mark> No d		

1.2 Manage workspaces

1.2.1 Concepts

In Quick BI Basic, a user's workspace is called personal space. In Quick BI Pro and Enterprise Standard, a user's workspace is divided into personal space and group space.

What is a group space?

A group space is a workspace where organization unit members collaborate on development. In a group space, group members can collaborate to create and modify data sources, cubes, worksheets, dashboards, and data portals based on their roles . These data objects exist in the group space they belong to. Different group spaces have different data objects.

In group space management, the organizational unit administrator adds members in the organizational unit to different group spaces based on their work scope and responsibilities.

Group spaces can correspond to actual business departments of the organizational unit. For example, administrators can create workspaces for the sales department and the HR department of the organization and then add the employees as members to the corresponding workspaces.

Workspaces are similar to DingTalk groups. For example, employees can share information and communicate with each other through the DingTalk group that is corresponding to the department that they belong to.

Manage workspaces

A group space is managed by the group space administrator. Members of a workspace are appointed to be administrators by the administrator of the organization that creates the workspace. Administrators of a workspace have permission to set other members in the workspace to be administrators.

Workspace management includes:

- · Creating a workspace
- · Modifying a workspace
- · Setting a default workspace

Differences between a personal space and a group space

Main differences between a personal space and a group space are as follows:

- A personal workspace is created automatically after the first logon. A workspace is created manually by an administrator of the organization.
- $\cdot\,$ The personal space cannot be deleted, and a new personal space cannot be created
- You are not allowed to add other members to a personal workspace. Therefore, a personal workspace does not support collaboration or transfer.
- Workspaces can be transferred to users in a group space, and can be shared with users in an organization. Personal spaces can be shared with Alibaba Cloud users.

1.2.2 Create a workspace

You can perform the following steps to create a workspace.

Procedure

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Workspaces.
- 3. Click Create Workspace as shown in the following figure.

Workspaces				Q	Create Workspace
Name 🗇	Owner \Rightarrow	Created At \Rightarrow	Updated At \Rightarrow	Actions	Default
0919_workspace	5094112100153210	9/19/2018, 16:45:01	9/19/2018, 16:45:01	Transfer Delete	

4. In the Name field, enter a name for the workspace as shown in the following figure.

Create Workspa	ace		\times
*Name	Enter a workspace name.		
Description			
		ĥ	
Allow	✓ Works to Be Made Public ✓ Works to Be Shared		
Field Display	• Use Technical Names Use Field Descriptions		
		Cancel	ОК

5. Click OK to complete the creating of the workspace.

1.2.3 Modify the information of a workspace

Only the owner of a personal workspace is allowed to modify the information of the personal workspace. Oppositely, only the administrators of a workspace are allowed to modify the information of the workspace.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Workspaces.
- 3. Click the Settings tab to jump to the Settings tab page.

Settings Me	mbers Embedded Dashboards		
Name	0919_workspace	Description	
Created At	9/19/2018, 16:45:01		
Owner	5094112100153210		
Allow	Works to Be Made Public		
	Works to Be Shared		
Field Display	• Use Technical Names Ouse Field Descriptions		
	Edit Workspace Leave Workspace		

4. Click Edit Workspace as shown in the following figure.

5. Click OK to finish the modification.

1.2.4 Set a default workspace

When a member is added to an organization, the member is added to the default workspace.

Procedure

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Workspaces.
- 3. Hover your mouse over a workspace. Click Set as Default as shown in the following figure.

Workspaces				Q	Create Workspace
Name 🖨	Owner ≑	Created At	Updated At \Rightarrow	Actions	Default
0919_workspace	5094112100153210	9/19/2018, 16:45:01	9/19/2018, 16:45:01	Transfer Delete	Set as Default

After you do that, the Default button is displayed in the Default column. Click the button to cancel the operation of setting the workspace as a default one.

1.2.5 Transfer a workspace

Before leaving an organization, the owner of a workspace can transfer the workspace to another member of the organization. The new owner can be any member, not required to be an administrator.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Workspaces.
- 3. Click Transfer in the Actions column for the workspace to transfer as shown in the following figure.

Workspaces				Q	Create Workspace
Name≑	Owner ≑	Created At \Rightarrow	Updated At \Rightarrow	Actions	Default
0919_workspace	5094112100153210	9/19/2018, 16:45:01	5/17/2019, 15:36:49	Transfer Delete	Default

4. Click the drop-down arrow and select a new owner of the workspace by the nickname as shown in the following figure.

Transfer Worl	kspace	\times
Specify a n	new owner for this workspace:	
New Owner	\$	
(Alias)		
	Cancel	ок

5. Click OK to complete the transferring of the workspace.

1.2.6 Leave a workspace

You can perform the following steps to leave a workspace.

- 1. Log on to the Quick BI console.
- 2. Choose Settings > Workspaces.
- 3. Click the Settings tab to jump to the settings tab page.

Settings Me	embers Embedded Dashboards		
Name	0919_workspace	Description	
Created At	9/19/2018, 16:45:01		
Owner	5094112100153210		
Allow	Works to Be Made Public		
	Works to Be Shared		
Field Display	Use Technical Names OUse Field Descriptio	ns	
	Edit Workspace Leave Workspace		

4. Click Leave Workspace as shown in the following figure.

- 5. Click the drop-down arrow to select a new owner of your data objects by the nickname.
- 6. Click OK to leave the workspace.

1.2.7 Workspace member overview

You need to assign a role to the member after you add it to a workspace . Roles have different permissions. Each member can be assigned a maximum of one role.

Roles include Space Manager, Developer, Analyst, and Viewer.

Mappings for roles and permissions

Mappings for roles and permissions are fixed and not modifiable. To grant permission to the member of a workspace, you only need to specify the role for the member.



Note:

The classic workbook feature is in beta and will not be supported in future versions. A classic workbook does not support custom grouping fields, data type conversions, dataset joins based on snowflake schemas, and joins for databases from different data sources.

Table 1-1: Function	navigation	entry
---------------------	------------	-------

Permission	Developer	Analyst	Viewer
Datasets/Data sources	Supported	Not supported	Yes

Permission	Developer	Analyst	Viewer
Classic Workbooks/ Workbooks	Supported	Supported	Supported
Dashboards	Supported	Supported	Supported
BI Portals	Supported	Supported	Supported

Table 1-2: Datasets/Data sources

Permission	Developer	Analyst	Viewer
Create data sources	Supported	Not supported	Not supported
Modify data sources	Only modifying own data sources is supported	Not supported	Not supported
Delete data sources	Only deleting own data sources is supported	Not supported	Not supported
Use data sources	Supported	Not supported	Not supported
Create datasets	Supported	Not supported	Not supported
Modify datasets	Only modifying own datasets is supported	Not supported	Not supported
Delete Datasets	Only deleting own datasets is supported	Not supported	Not supported
Use datasets	Supported	Supported	Not supported

Table 1-3: Classic workbooks

Permission	Developer	Analyst	Viewer
Create classic workbooks	Supported	Supported	Not supported
Modify classic workbooks	Only modifying own classic workbooks is supported	Only modifying own classic workbooks is supported	Not supported

Permission	Developer	Analyst	Viewer
Delete classic workbooks	Only deleting own classic workbooks is supported	Only deleting own classic workbooks is supported	Not supported
View classic workbooks	Supported	Supported	Supported
Share classic workbooks	Only sharing own classic workbooks is supported	Only sharing own classic workbooks is supported	Not supported
Reference classic workbooks	Supported	Supported	Not supported

Table 1-4: Workbooks

Permission	Developer	Analyst	Viewer
Create workbooks	Supported	Supported	Not supported
Modify workbooks	Only modifying own workbooks is supported	Only modifying own workbooks is supported	Not supported
Delete workbooks	Only deleting own workbooks is supported	Only deleting own workbooks is supported	Not supported
View workbooks	Supported	Supported	Supported
Share workbooks	Only sharing own workbooks is supported	Only sharing own workbooks is supported	Not supported
Reference workbooks	Supported	Supported	Not supported

Table 1-5: Dashboards

Permission	Developer	Analyst	Viewer
Create dashboards	Supported	Supported	Not supported
Modify dashboards	Only modifying own dashboards is supported	Only modifying own dashboards is supported	Not supported

Permission	Developer	Analyst	Viewer
Delete dashboards	Only deleting own dashboards is supported	Only deleting own dashboards is supported	Not supported
View dashboards	Supported	Supported	Supported
Share dashboards	Only sharing own dashboards is supported	Only sharing own dashboards is supported	Not supported
Reference dashboards	Supported	Supported	Not supported
Publish dashboards	Only publishing own dashboards is supported	Only publishing own dashboards is supported	Not supported

Table 1-6: BI portals

Permission	Developer	Analyst	Viewer
Create BI portals	Supported	Supported	Not supported
Modify BI portals	Only modifying own BI portals is supported	Only modifying own BI portals is supported	Not supported
Delete BI portals	Only deleting own BI portals is supported	Only deleting own BI portals is supported	Not supported
View BI portals	Supported	Supported	Supported
Share BI portals	Only sharing own BI portals is supported	Only sharing own BI portals is supported	Not supported

1.2.8 Add, edit, search, and delete workspace members

 $On \ the \ work spaces \ page, \ you \ can \ add, \ edit, \ search, \ and \ delete \ work space \ members.$

To perform these actions, you must first go to the workspaces page.

Go to the workspaces page

- 1. Log on to the Quick BI console.
- 2. Click Settings > Workspaces in the upper-right corner of the page.
- 3. Click the Members tab to show the Members tab page.

Add members to a workspace

- 1. On the workspaces page, click the workspace that you want to add members to.
- 2. Click the Members tab, and then click Add Members on the members tab page, as shown in the following figure:

Settings Members	Embedded Dashboards				
					Q Add Members
Tenant Account≑		Alias 🗢	Joined At 🗢	Role	Actions

3. Search members by alias and select a role for the members, as shown in the following figure:

Add Member	S	\times
Members Role	Admin Developer Analyst Viewer	
	Cancel	ок

4. Click OK to add the members.

Modify the member role

- 1. On the workspaces page, click the workspace that the member belongs to.
- 2. Click the Members tab, and click Edit in the Actions column for the target member.
- 3. Change the role of the member.

Edit Members	;	\times
Alias	ASDF O	
Role	•Admin O Developer Analyst Viewe	r
	Cancel	ок

Different roles are granted different permissions. For more information, see #unique_22.

4. Click OK to submit the change.

Search members

- 1. On the workspaces page, click a workspace to search members.
- 2. Click the Members tab, enter an alias into the search box on the members tab page.

Edit Members	5		\times
Alias	ASDF	\$	
Role	•Admin Developer A	Analyst 🔿 Viewe	۱۲
		Cancel	ОК

3. Click the Search icon to search for the member.

Delete a member

- 1. On the workspaces page, click the workspace that the target member belongs to.
- 2. Click the Members tab, and click Delete in the Actions column for the target member.
- 3. Select a new owner from the drop-down list. Items under the member to be deleted will be transferred to the new owner.
- 4. Click OK to delete the member.

2 Data modeling

2.1 Overview of data modeling

Data modeling is used to visualize data and allows you to quickly identify and extract information. Furthermore, it helps you to make correct decisions based on the trend represented by the data.

The basic process of data modeling is shown in the following figure.



1. Add data sources: a required step. Operations on datasets, workbooks, dashboards, and portals are all based on data sources. For more information about data sources, see Data sources management overview.

- 2. Create datasets: a required step. You can create a dataset by using any one of the following three methods:
 - Tables in a data source: You can create dashboards and workbooks based on datasets. For more information about operations on datasets, see Datasets management overview.
 - Local files: You can only create datasets based on local files in Personal Workspace. You can create datasets based on CSV files uploaded from your local disk. For more information about operations on CSV files, see Upload local files.
 - Custom SQL queries: You can create datasets based on custom SQL queries in MaxCompute. For more information about operations on custom SQL queries, see SQL overview.

2.2 Data source management

2.2.1 Manage data sources

Quick BI supports the following types of data sources.

Cloud data sources

- · MaxCompute
- · MySQL
- · SQL Server
- · AnalyticDB
- HybridDB for MySQL
- HybridDB for PostgreSQL
- · PostgreSQL
- · PPAS
- Hive (Quick BI Enterprise Standard)
- · Data Lake Analytics (Quick BI Enterprise Standard and Pro)
- · OSS (Quick BI Enterprise Standard)
- · DRDS (Quick BI Enterprise Standard)

User-created data sources

- · MySQL
- · SQL Server
- \cdot Oracle

- · PostgreSQL
- Hive (Quick BI Enterprise Standard)
- Vertica (Quick BI Enterprise Standard)
- · IBM DB2 LUW (Quick BI Enterprise Standard)
- · SAP IQ (Sybase IQ) (Quick BI Enterprise Standard)
- · SAP HANA (Quick BI Enterprise Standard)

User space

- · CSV files
- Excel files
- Data IDE

Local files are uploaded and stored in the user space. Only Quick BI provides user spaces. Currently, each user has a user space of 1 GB.

Network requirements for data sources

Quick BI has the following network requirements for data sources.

- 1. Quick BI can connect to RDS instances in a VPC by using public IP addresses. MySQL and SQL Server instances can be connected by using private IP addresses.
- 2. Quick BI can connect to instances in a classic network by using both public and private IP addresses. When Quick BI connects to RDS instances by using public IP addresses, set a whitelist of IP addresses that are allowed to access RDS instances in the RDS console. For more information, see Set a whitelist.
- 3. Quick BI can be accessed on the public network.
- 4. Quick BI can connect to user-created MySQL and SQL Server databases on ECS instances in a VPC by using private IP addresses.

More operations

For more operations on data sources, see:

- #unique_30
- #unique_31
- #unique_27
- **#unique_32**
- #unique_33
- #unique_34

• **#unique_35**

2.2.2 Create cloud data sources

Operations on datasets, workbooks, dashboards, and BI portals are based on data sources. This topic describes how to create a cloud data source.

You need to go to the Add Data Source page before adding a cloud data source.

- 1. Log on to the Quick BI console.
- 2. Click Data Sources to go to the Data Sources page.
- 3. Click Create Data Source.
- 4. Click the Cloud Data Sources tab.

MaxCompute

- 1. Click the MaxCompute icon.
- 2. Enter the fields for connecting to the data source.

Add MaxCompute Data	base	×	
* Name:	Enter a databse name to be displayed.		
* Database Address:	http://service.odps.aliyun.com/api		
* Project Name:	Enter a project name.		
* AccessKey ID:	Enter the AccessKey ID.		
* AccessKey Secret:	Enter the AccessKey Secret.		
① Note: Latency may	occur while synchronizing the data source.		
	Close Test Connection	Add	

- Name: the data source name.
- Database Address: the default address is displayed. For modification, see #unique_37.

Note:

The database address is based on the region where the database instance is deployed. For example, if you choose a classic network as the network type for

your database instance that is deployed in the Hong Kong region, the database address is http://service.cn-hongkong.maxcompute.aliyun-inc.com/api. If the database instance is deployed in the Asia Pacific SE 1 (Singapore) region, the database address is http://service.ap-southeast-1.maxcompute.aliyun-inc.com/api. For more information, see #unique_37.

- Project: the project name.
- AccessKey ID: the AccessKey ID.
- AccessKey Secret: the AccessKey Secret.

Note:

Make sure that the AccessKey is valid. The corresponding account is an administrator of the project, the owner of the project, or a user that has List, Select, and CreateInstance permissions.

3. Click Test Connection to perform a data source connectivity test.



If the connection is successful, a message that indicates success is displayed.

4. Click Add to add the data source.

After the data source is added, the Data Sources page is redirected automatically. All tables that are contained in the data source are listed in the right section.

MaxCompute data sources use asynchronous loading. Creating a MaxCompute data source takes one to five minutes to synchronize data.

MySQL

You need to add IP addresses or security groups to the whitelist of the RDS instance in the ApsaraDB for RDS console before you add an RDS data source.

For more information, see Set a whitelist.

1. Click the MySQL icon.

2. Enter the fields for connecting to the data source.

Add MySQL Database		×
* Name:	Enter a database name to be displayed.	
* Database Address:	Enter a hostname or an IP address.	
* Port Number:	3306	
* Database:	Enter a database name.	
* Username:	Enter a username.	
* Password:	Enter the password.	
() Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.	
	Close Test Connection	Add

- Name: the data source name.
- Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- Username: the database username.
- Password: the database password.

Contact the administrator of your data warehouse if you forget the username and password.

- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

If a data source with the same configurations exists, a message that indicates conflict is displayed. You do not need to create the same data source again.

SQL Server

Adding an RDS (SQL Server) data source is similar to adding an RDS (MySQL) data source. However, you need to specify the Schema configuration item for an RDS (SQL Server) data source. The default port number for an SQL Server data source is 1433.
1. Click the SQL Server icon.

2. Enter the fields for connecting to the data source.

Add SQL Server Databa	se	×
* Name:	Enter a database name to be displayed.	
* Database Address:	Enter a hostname or an IP address.	
* Port Number:	1433	
* Database:	Enter a database name.	
Schema:	dbo	
* Username:	Enter a username.	
* Password:	Enter the password.	
(1) Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.	
	Close Test Connection	Add

- Name: the data source name.
- Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- · Schema: the database schema. The default schema is dbo.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

AnalyticDB

1. Click the AnalyticDB icon.

Add AnalyticDB Database		×
* Name:	Enter a databse name to be displayed.	
* Database Address:	Enter a hostname or an IP address.	
* Port Number:	3306	
* Database:	Enter a database name.	
* AccessKey ID:	Enter the AccessKey ID.	
* AccessKey Secret:	Enter the AccessKey Secret.	
	Close Test Connection	Add

- Name: the data source name.
- · Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- Access ID: the AccessKey ID.
- Access Key: the AccessKey Secret.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

HybridDB for MySQL

Adding a HybridDB for MySQL data source is similar to adding a MySQL data source.

1. Click the HybridDB for MySQL icon.

Ado	d Data Source		×
	* Name:		
	* Database Endpoint:		
	* Port:	3306	
	* Database:		
	* Username:		
	* Password:	Please enter your password	
	 Note: Add the follow 8.0/24,11.193.162.0/ 	ving IP ranges to the whitelist of your databases.11.193.15 24,47.74.161.0/24,47.74.162.0/24	
		Close Test Connection A	dd

- Name: the data source name.
- · Database Address: the IP address or the hostname of the database.
- Port Number: the port number. The default port number is 3306.
- Database: the database name.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

HybirdDB for PostgreSQL

Adding a HybridDB for PostgreSQL data source is similar to adding a SQL Server data source. The default port number for a HybridDB for PostgreSQL database is displayed

1. Click the HybridDB for PostgreSQL icon.

.

Add Data Source		×
* Name:	Display name in the data source list	
* Database Endpoint:		
* Port:	5432	
* Database:		
Schema:	public	
* Username:		
* Password:	Please enter your password	
(!) Note: Add the follow 8.0/24,11.193.162.0/	ving IP ranges to the whitelist of your databases.11.193.15 /24,47.74.161.0/24,47.74.162.0/24	
	Close Test Connection A	dd

- Name: the data source name.
- · Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

PostgreSQL

1. Click the PostgreSQL icon.

Add Data Source		×
* Name:	Display name in the data source list	
* Database Endpoint:		
* Port:	5432	
* Database:		
Schema:	public	
* Username:		
* Password:	Please enter your password	
() Note: Add the follow 8.0/24,11.193.162.0/	ving IP ranges to the whitelist of your databases.11.193.15 /24,47.74.161.0/24,47.74.162.0/24	i
	Close Test Connection	dd

- Name: the data source name.
- · Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- · Schema: the database schema. The default schema is public.
- · Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

PPAS

Adding a PPAS data source is similar to adding a PostgreSQL data source.

1. Click the PPAS icon.

Add PPAS Database		×	
* Name:	Enter a database name to be displayed.		
* Database Address:	Enter a hostname or an IP address.		
* Port Number:	5432		
* Database:	Enter a database name.		
Schema:	hema: public		
* Username:	Enter a username.		
* Password:	Enter the password.		
() Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.		
	Close Test Connection	Add	

- Name: the data source name.
- Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

Hive (Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard, you can add a Hive data source.

1. Click the Hive icon.

Add Hive Database		×
* Name:	Enter a database name to be displayed.	
* Database Address:	Enter a hostname or an IP address.	
* Port Number:	10000	
* Database:	Enter a database name.	
* Username:	Enter a username.	
* Password:	Enter the password.	
	Close Test Connection	Add

- Name: the data source name.
- Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the database name.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

Data Lake Analytics (Quick BI Pro and Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard or Quick BI Pro, you can add a Data Lake Analytics data source.

1. Click the Data Lake Analytics icon.

Add Data Lake Analytics Database		
* Name:	Enter a database name to be displayed.	
* Database Address:		
* Port Number:	10000	
* Database:		
* AccessKey ID:		
* AccessKey Secret:		
	Close Test Connection	Add

- Name: the data source name.
- Database Address: the IP address or the hostname of the database.
- · Port: 10000
- Database: the database name.
- Access ID: the AccessKey ID.
- Access Key: the AccessKey Secret.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

DRDS

If you use Quick BI Enterprise Standard, you can add a DRDS data source.

1. Click the DRDS icon.

Add DRDS Database		×		
* Name:	Enter a database name to be displayed.			
* Database Address:	Enter a hostname or an IP address.			
* Port Number:	3306			
* Database:	Enter a database name.			
* Username:	Enter a username.			
* Password:	Enter the password.			
 Note: Add the following IP addresses to the whitelist: 10.152.69.0/24,10.152.163.0/24, and 139.224.4.0/24. 				
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or the hostname of the database.
- Port Number: the port number.
- Database: the name of a database that you connect to.
- Username: the database username.
- Password: the database password.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

2.2.3 Create a user-created data source

This topic describes how to create a user-created data source. You can access all data sources that are created in Quick BI Enterprise Standard by using SSH tunnels.

MySQL

- 1. Log on to the Quick BI console.
- 2. Click Data Sources to go to the Data Sources page.
- 3. Choose Create Data Source > User-created Data Sources > MySQL
- 4. Enter the fields for connecting to the data source as shown in the following figure.



Select ECS (VPC) User-created Data Source and enter the required fields when you connect to an ECS (VPC) user-created data source.

Add MySQL Database		×
* Name:	Enter a database name to be displayed.	
* Database Address:	Ib	
* Port Number:	3306	
* Database:	Enter a database name.	
* Username:	Enter a username.	
* Password:	Enter the password.	
ECS (VPC) User-created	d Data Source: 🔽 💿	
* AccessKey ID:	Enter the AccessKey ID.	
 AccessKey Secret: 	Enter the AccessKey Secret.	
* Instance ID:	Enter the instance ID.	
* ECS Instance Region:	cn-qingdao \lor	
ssh:	~	
SSH Host:	Enter a hostname or an IP address.	
SSH Username:	Enter a username.	
SSH Password:	Enter the password.	
SSH Port Number:	22	
() Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.	
	Close Test Connection	Add

- Name: the data source name.
- Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 3306.
- Database: the database name.

- Username: the database username.
- Password: the database password.
- AccessKey ID: the AccessKey ID for the account that purchased the ECS instance for housing the database.
- AccessKey Secret: the AccessKey Secret.
- Instance ID: the ECS instance ID.
- ECS Instance Region: the region location ID of the ECS instance.
- · SSH Host: The host name or IP address.
- · SSH Username: The username for logon through SSH.
- SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 5. Click Test Connection to perform a data source connectivity test.
- 6. Click Add to add the data source.

You need to remove the firewall of the user-created database for allowing users to access MySQL through the Internet.

1. Run the following command to open the configuration file for the firewall.

vi / etc / sysconfig / iptables

2. Add the following command to the configuration file.

```
- A RH - Firewall - 1 - INPUT - m state - state NEW - m
tcp - p tcp - dport 3306 - j
ACCEPT
```

3. Restart iptables.

service iptables restart

SQL Server

- 1. Click the SQL Server icon.
- 2. Enter the fields for connecting to the data source as shown in the following figure.



Select ECS (VPC) User-created Data Source and enter the required fields when you connect to an ECS (VPC) user-created data source.

Add SQL Server Database						
* Name:	Enter a database name to be displayed.					
* Database Address:	IP					
* Port Number:	1433					
* Database:	Enter a database name.					
Schema:	dbo					
* Username:	Enter a username.					
* Password:	Enter the password.					
ECS (VPC) User-created	Data Source: 🛃 👰					
* AccessKey ID:	Enter the AccessKey ID.					
* AccessKey Secret:	* AccessKey Secret: Enter the AccessKey Secret.					
* Instance ID:	* Instance ID: Enter the instance ID.					
* ECS Instance Region: cn-qingdao 🗸 🗸						
ssh: 🔽						
SSH Host:	Enter a hostname or an IP address.					
SSH Username:	Enter a username.					
SSH Password:	Enter the password.					
SSH Port Number:	22					
(1) Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.					
	Close Test Connection	Add				

- Name: the data source name.
- Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 1433.

- · Database: the database name.
- · Schema: the database schema. The default schema is dbo.
- Username: the database username.
- Password: the database password.
- AccessKey ID: the AccessKey ID for the account that purchased the ECS instance for housing the database.
- AccessKey Secret: the AccessKey Secret.
- Instance ID: the ECS instance ID.
- ECS Instance Region: the region location ID of the ECS instance.
- SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

PostgreSQL

1. Click the PostgreSQL icon.

2.	Enter the	fields for	connecting	to the data	source.
----	-----------	------------	------------	-------------	---------

Add PostgreSQL Database				
* Name:	Enter a database name to be displayed.			
* Database Address:	IP			
* Port Number:	5432			
* Database:	Enter a database name.			
Schema:	public			
* Username:	Enter a username.			
* Password:	Enter the password.			
SSL:	~			
ssh:				
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	n 22			
(!) Note: Add the follo 10.152.69.0/24,10.1	wing IP addresses to the whitelist: 52.163.0/24, and 139.224.4.0/24.			
	Close Test Connection	Add		

- Name: the data source name.
- Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 5432.
- Database: the database name.
- Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.

- SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.

Note:

After you select ssh, interactive query services that are provided by MaxCompute Lightning are supported.

- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

Oracle

1. Click the Oracle icon.

Add Oracle Database		×		
* Name:	Enter a database name to be displayed.			
* Database Address:	Ib			
* Port Number:	1521			
* Database:	Enter a database name.			
Schema:	The current username is used by default.			
* Username:	Enter a username.			
* Password:	Enter the password.			
ssh:	✓			
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 1521.
- Database: the database name.
- · Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- · SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.

4. Click Add to add the data source.

Hive (Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard, you can add a Hive data source.

1. Click the Hive icon.

Add Hive Database		×		
* Name:	Enter a database name to be displayed			
- Harrie				
* Database Address:				
* Port Number:	10000			
* Database:	Enter a database name.			
* Username:	Enter a username.			
* Password:	Enter the password.			
ssh:	7			
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number.
- · Database: the database name.
- · Username: the database username.
- Password: the database password.
- · SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- · SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

Vertica (Quick BI Standard)

If you use Quick BI Enterprise Standard, you can add a Vertica data source.

1. Click the Vertica icon.

Add Vertica Database		×		
* Name:	Enter a database name to be displayed.			
* Database Address:				
* Port Number:	5433			
* Database:	Enter a database name.			
Schema:	public			
* Username:	Enter a username.			
* Password:	Enter the password.			
ssh:				
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 5433.
- Database: the database name.
- · Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- · SSH Password: The password for logon through SSH.
- · SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.

4. Click Add to add the data source.

IBM DB2 LUW (Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard, you can add an IBM DB2 LUW data source.

1. Click the IBM DB2 LUW icon.

Add IBM DB2 LOW Database				
* Name:	Enter a database name to be displayed.			
* Database Address:	IP			
* Port Number:	50000			
* Database:	Enter a database name.			
Schema:	DB2INST1			
* Username:	Enter a username.			
* Password:	Enter the password.			
ssh:				
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 50000.
- Database: the database name.
- · Schema: the database schema. The default schema is DB2INST1.
- · Username: the database username.
- Password: the database password.
- SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- · SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.
- 4. Click Add to add the data source.

SAP IQ (Sybase IQ) (Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard, you can add an SAP IQ (Sybase IQ) data source.

1. Click the SAP IQ(Sybase IQ) icon.

Add SAP IQ (Sybase IQ) Database				
* Name:	Enter a database name to be displayed.			
* Database Address:	IP			
* Port Number:	2638			
* Database:	Enter a database name.			
Schema:	sybase			
* Username:	Enter a username.			
* Password:	Enter the password.			
ssh:				
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 2638.
- Database: the database name.
- · Schema: the database schema. The default schema is sybase.
- Username: the database username.
- Password: the database password.
- · SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- · SSH Password: The password for logon through SSH.
- SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.

4. Click Add to add the data source.

SAP HANA (Quick BI Enterprise Standard)

If you use Quick BI Enterprise Standard, you can add an SAP HANA data source.

1. Click the SAP HANA icon.

Add SAP HANA Databa	se	×		
* Name:	Enter a database name to be displayed.			
* Database Address:	IP			
* Port Number:	30015			
* Database:	Enter a database name.			
Schema:	public			
* Username:	inter a username.			
* Password:	Enter the password.			
ssh:	~			
SSH Host:	Enter a hostname or an IP address.			
SSH Username:	Enter a username.			
SSH Password:	Enter the password.			
SSH Port Number:	22			
	Close Test Connection	Add		

- Name: the data source name.
- · Database Address: the IP address or hostname of the database.
- Port Number: the port number. The default port number is 30015.
- Database: the database name.
- · Schema: the database schema. The default schema is public.
- Username: the database username.
- Password: the database password.
- · SSH Host: The host name or IP address.
- SSH Username: The username for logon through SSH.
- · SSH Password: The password for logon through SSH.
- · SSH Port: The default SSH port number 22.
- 3. Click Test Connection to perform a data source connectivity test.

4. Click Add to add the data source.

2.2.4 Upload local files

You can upload local CSV files and Excel files (.xls and .xlsx files) to the explore space as a data source.

The explore space is a data source type that is used only in the personal workspace. Each user has 1 GB storage space.

In addition, you can import data resources from the Data IDE.



The method that you upload local files through Create Data Source > Local Files is only available in personal workspaces.

CSV file

CSV files in UTF-8 format are decoded without errors. CSV files in GBK or GB2312 format are automatically decoded, but the decoding may fail in some special cases.

If your CSV files cannot be decoded correctly, use text editors such as Notepad to convert the encoding of the files to UTF-8. Otherwise, the content of the uploaded files is shown as gibberish.

- 1. Use Notepad to open a CSV file.
- 2. Choose File > Save As.
- 3. Click the drop-down arrow of Encoding.
- 4. Select UTF-8.

After you have changed the encoding, upload the CSV file to the explore space.

- 1. Log on to the Quick BI console.
- 2. Click Data Source to enter the Data Sources page.
- 3. ChooseCreate > Local Upload > CSV file.
- 4. Enter a display name for the file.

5. Click Select a file to select the file to upload, as shown in the following figure.

Upload Files		×
* File:	Test.csv	
* File Name:	Test	
	The name must be 1 to 50 characters in length and can contain letters, numbers, Chinese characters, underscores (_), forward slashes (/), backslashes (\), vertical bars (]), parentheses (()), and square brackets ([]).	
Note: Use Googl	e Chrome to upload files.	
	Close	ОК

6. Click OK to upload the file.

Excel file

When you upload Excel files, the first sheet in each excel file is uploaded by default. To make the editing and maintenance more flexible, you can only select one sheet in one Excel file at a time.

- 1. ChooseCreate > Local Upload > EXCEL file.
- 2. Enter a display name for the file.
- 3. Click Select a file to select the file to upload, as shown in the following figure.



4. Click OK to complete uploading the file.

Data IDE

Note:

Only supports importing data sources from the China (Shanghai) region, and you must add your account to the project.

- 1. ChooseCreate > From Other > Data IDE.
- 2. Select the data source from the list.
- 3. Click Import to complete the importing of the data source.

Update table data according to the local data source

The local data source feature of Quick BI is designed to meet the analysis requiremen ts for your changing and growing business.

After you have uploaded a file, new files are generated as the business grows. You can append the new files to the table corresponding to the previously uploaded file to analyze business data consistently over a long period of time.

The new file can be in a format different from the previously uploaded file. For example, if you have uploaded a CSV file, you can import data from a sheet in an Excel file. Make sure that the field names and the field types in the files to be uploaded are the same as those in the previously uploaded file.

- 1. Click Data Source to enter the Data Sources page.
- 2. Click Explore Space to enter the Explore Space page.
- 3. Select a file, and then click Update.
- 4. Click Append to upload the file that needs to be appended, as shown in the following figure.

Data Sources					+ Create Data Source
My Data Sources	Append File		×		Lipload Files
	Partition Name	Updated At	Actions		Actions
User Space	company_sales_record_en.xlsx	1/15/2019, 16:00:25		256.00 KP	
wysql Owner: 50941121001532			Close Append	2.13 MB	

5. Click OK to append the data.

Delete the data of the table corresponding to a local data source

If a file that you have appended contains dirty data, which decreases the accuracy of the data, you can delete the file with dirty data that is corresponding to the table in

the uploaded file list. The corresponding dashboard displays corrected data without any manual changes. Therefore, the analysis results of data are accurate at all times.

- 1. Click Data Source to enter the Data Sources page.
- 2. Click Explore Space to enter the Explore Space page.
- 3. Select a file, and then click Update.
- 4. Locate the file that needs to be deleted, and then click the Delete icon, as shown in the following figure.

Ap	ppend File		×
	Partition Name	Updated At	Actions
	company_sales_record_en.xlsx ^{NEW}	3/4/2019, 16:03:56	Delete
	company_sales_record_en.xlsx	1/15/2019, 16:00:25	i C
			Close Append

Example of local files

To help you learn to use local data source files, we provide a sample CSV file here: Sales data examples.

The structure of the sales data is shown in the following table.

Field	Field type	Description
order_id	varchar	Order ID
report_date	datetime	Order date
customer_name	varchar	Customer name
order_level	varchar	Order grade
order_number	double	Order quantity
order_amt	double	Order amount
back_point	double	Discount
shipping_type	varchar	Shipping type
profit_amt	double	Profit amount
price	double	Unit price
shipping_cost	double	Shipping cost
area	varchar	Region

Field	Field type	Description
province	varchar	Province
city	varchar	City
product_type	varchar	Product type
product_sub_type	varchar	Product subtype
product_name	varchar	Product name
product_box	varchar	Product packing box
shipping_date	Datetime	Shipping date

2.2.5 Edit, search, and delete data sources

On the data sources page, you can view all created data sources, and edit, search, and delete data sources. To perform these actions, go to the data sources page first.

Go to the data sources page

- 1. Log on to the Quick BI console.
- 2. In the left-side navigation pane, select Data Sources.

Edit a data source

1. On the data sources page, select a data source, and click the Edit icon.



2. Edit the following information in the dialog box. Click Save to save the changes.

Edit Data Source		×				
* Name:	My50L					
* Database Address:	m-bp1157902297c53keomysgintselyeno.com					
* Port Number:	3306					
* Database:						
* Username:	guilden and a second seco					
* Password:	inter the password.					
ssh:						
 Note: Add the following IP addresses to the whitelist: 10.152.69.0/24,10.152.163.0/24, and 139.224.4.0/24. 						
	Close Test Connection S	ave				

Search data sources

On the data sources page, enter a data source name into the search box and then click the Search icon to search for the data source.



Delete a data source

On the data sources page, select a data source, and click the Delete icon to delete the data source.



If a dataset is created on the data source, then you cannot delete the data source. The system will prompt an error message when you delete the data source.

2.2.6 Search for tables in a data source

Procedure

- 1. Log on to the Quick BI console.
- 2. Click Data Sources to go to the Data Sources page.
- 3. Enter a table name into the search box and click the Search icon to search for the table.

:=	Data Sources + Cree				
🖉 Template 🛛 🗢 👻	My Data Sources Q Total Files: 1	Tables Uploaded Files	test × Ad Hoc Query	Upload File	
El Portals	mysql	Name ¢	test	Actions	
Dashboards	owner	0802_test		î ()	
Sector Workbooks		18col test		n (1)	
Downloads (Beta) NEW					
Tatasets				@ ()	
↔ Data Sources		Terrori, Mil	10048805	î ()	
		7he_test_2019_0524		û ()	

2.2.7 View the tables in a data source

Procedure

- 1. Log on to the Quick BI console.
- 2. Click Data Sources to go to the Data Sources page.
- 3. In the My Data Sources list, click a data source. All tables stored in the data source are displayed on the right side of the page.

4. Select a table and click the View Details icon to view the details of the tab	ole.
--	------

Tables Uploaded Files		Q _{test}	×	Ad Hoc Query	Upload File	
Name \$		De	scription 🗢		Actions	
_					1	
Table Information						×
Table Name						
Field Name	Туре		Description			
a	bigint					
Ь	int					
id	bigint					
						Close

2.2.8 Synchronize data sources

In the Personal Space of Quick BI, you can synchronize MaxCompute and MySQL data sources to Exploration Space.

- 1. On the Data Sources page, click Import Data.
- 2. Select a MaxCompute data source or a MySQL data source.



• You must add the following IP addresses to the RDS whitelist before synchronizing the MySQL data source.

11.193.158.0/24, 11.193.162.0/24, 47.74.161.0/24, 47.74.162.0/24

- You must switch to a classic network to synchronize MySQL data sources. A VPC network does not support the synchronization of MySQL data sources.
- This function is a one-time synchronization. If the data source is updated, you must synchronize the data source again.

2.3 Dataset management

2.3.1 Manage datasets

You can create datasets based on the data sources that you add or import. For adding and importing data sources, see #unique_46, #unique_47, and #unique_48.

After creating a dataset, you can create a dashboard as needed. For creating dashboards, see #unique_49.

On the edit page of a dataset, you can analyze, edit, and rename the dataset.

The edit page of a dataset consists of the following sections.

Company_sales	are company_sales_record_en_0423							
Dataset ←=	۵ ک					Refresh Pr	eview Set Filter	Sync Schema
Dimensions + str. customer_name str. order_level	eustomer_name	en. order_level	shipping_type	e area	province	city	product_type	product_sub_type
 snipping_type area province city 								
sv: product_type sv: product_sub_type sv: product_name sv: product_box sv: back point								
Measures + C Default Me order_number Mo order_amt Mo profit_amt No price No shipping_cost								
BI Portals II	Dashboards	Workbooks	Datasets				<->	Retrieve Data
On the edit page of a dataset, you can perform the following operations on the dataset.

- #unique_50
- #unique_51
- **#unique_52**
- **#unique_53**
- #unique_54

2.3.2 Create a dataset

Prerequisites

Make sure that a data source is created or uploaded before you create a dataset.

Context

For more information, see Create a cloud data source, Create a user-created data source, and Upload a file.

Procedure

- 1. Log on to the Quick BI console.
- 2. Click Data Sources to go to the Data Sources page.
- 3. Select a data source.

- 4. You can create a dataset from a data source directly or use an ad-hoc query result as a dataset.
 - · Use a data source

Select a table and click the Create Dataset icon in the Actions column.

My Data Sources	Q Total Files: 1	Tables Uploaded Files	Q test	× Ad Hoc Query	Upload File
mysql		Name \$	Desc	ription 🗢	Create Dataset
Owner		0802_test			1

- Use an ad-hoc query result
 - a. Click Ad Hoc Query. On the Ad Hoc Query page, enter SQL statements.

Data Sources				+ Create Data Source
My Data Sources	Q Total Files: 1	Tables Uploaded Files	Q test X	Ad Hoc Query Upload File
mysql		Name ¢	Description \$	Actions
Owne	3454.	0802_test		î ()
				Europa Country Delevation
Data Source mysqi			RU	Format Create Dataset
1SELECT COL				
3 WHERE COL='col'				
History				$\left \right\rangle$
Start At	SQL Statement		Duration (ms)	Actions
2019-06-13 17:39:06	SELECT * from 920_table_test		335	Copy Create Dataset
2019-06-13 17:29:38	SELECT * FROM bank_table_test		362	Copy Create Dataset

Note:

Click Format to format SQL statements.

- **b.** Click Run to view the result and history.
- c. ClickCreate Dataset to save the result as a

dataset.

Data Source	mysql	
1SELECT CO 2 FROM TA 3 WHERE CO	DL BLE DL='col'	
History		
Start At		SQL Statement
2019-06-1	3 17:39:06	SELECT * from 920_table_t
2019-06-1	3 17:29:38	SELECT * FROM bank_table

S

Note:

On the History tab page, you can click Create Dataset in the Actions column to create a dataset based on the corresponding SQL statements.

After the dataset is created, the current page is redirected to the Datasets page. A new dataset is displayed with a NEW icon.

2.3.3 Edit dimensions and measures

To edit a dimension or a measure, you can click the operations icon, or you can rightclick the dimension or measure and select an operation from the shortcut menu that appears. For example, you need to change the dimension type to Geo when you create a bubble map or a colored map. Otherwise, the map chart cannot be displayed properly.

Edit a dimension

1. Select a dimension. For example, order_level.



2. Right-click order_level and a shortcut menu appears.

- · Edit: edits the dimension name and description.
- Duplicate Dimension: duplicates a dimension. The name of the duplicate dimension ends with _Duplicate.
- Hide When Analyze: hides a dimension.
- Show All: shows all dimensions.
- · Delete: deletes a dimension.
- Create Calculated Field (Dimensions): creates a dimension and customizes the expression.
- Move To: moves a dimension to a hierarchy for drilling.
- · Create Hierarchy: creates a hierarchy for a dimension.
- Move Up/Move Down: moves a dimension. You can also do this with drag and drop.
- · Convert to Measure: converts a dimension to a measure.
- Change Dimension Type: changes the dimension type. Dimension types include Date/Time, Geo, String, and Number.



- You can duplicate, hide, and delete dimensions of different hierarchy levels.
- You can set the start day of a week for the week calculated field. A week field is calculated by using the WEEK() function.

Q Search by keyword.	Edit report_date	(week)	\times
Dimensions +			
- 🖻 province_Hierarchy	*Dimension	report_date(week)	
o province	Name	The name to be displayed in the tree must be 1 to	
⊚ city		50 characters in length and can contain letters,	
- 🛅 product_type_Hierar		numbers, Chinese character, underscores (_),	
Str. Product_type		forward slashes (/), backslashes (\), vertical bars	
<pre>str. Product_sub_type</pre>		(), parentheses (()), and square brackets ([]).	
str. order_id			
・ 品 report_date	*First Day of	Monday 🗸	
report_date(year)	Week	NOTE: Monday is defined as the first day of the	
report_date(quarter)		week by default.	
report_date(month)	Technical Name	roport data	
report_date(week)	recifical Name		
🛗 report_date(day)		The field corresponds to a column in the dimension	
^{Str.} customer_name		table.	
Measures 🛥 🕂	Description		
- 🗁 默认			
Nº order_number	NOTE: The calculation	on based on weeks starting on the defined first day de	pends
№ order_amt	on database functior	ns. Download SQL script files and import them to the	
№ back_point	corresponding datab	ases.	
№ profit_amt			
№ price		Cancel	ок

Edit a measure

1. Select a measure. For example, order_number.

2. Right-click order_number and a shortcut menu appears.



- · Edit: edits the measure name and description.
- Duplicate Measure: duplicates a measure. Name of the duplicate measure contains _Duplicate.
- Hide When Analyze: hides a measure.
- Show All: shows all measures.
- · Delete: deletes a measure.
- Create Calculated Field (Measures): creates a measure and customizes the expression.
- Move To: moves a measure to a hierarchy.
- Move Up/Move Down: moves a dimension. You can also do this with drag and drop.
- · Convert to Dimension: converts a measure to a dimension.
- Format: specifies the number format to display.
- Default Aggregates: specifies the aggregate function. Aggregate functions include Sum, Count, Count Distinct, Maximum, Minimum, and Average.
- Change Measure Type: changes the measure type. Measure types include String and Number.

2.3.4 Change field types

To create a map chart, such as a geo bubble map or a geomap, select dimension fields containing geographical information and change the dimension type from String to Location. Otherwise, the map cannot be displayed.

- 1. Click Datasets to go to the Datasets page.
- 2. Select a target dataset, for example, company_sales_record, and click Edit to go to the dataset editing page, as shown in the following figure.

Company_sales	s_record					Ē	1			
Dataset -=										
Q Search by keyword.	0	0	0	Str.	iii	Str.	Str.			
Dimensions +	area	province	city	order_id	report_date(day)	customer_name	orde			
- 🗁 area_Hierarchy 🛛 🕸										
💿 area										
o province										
oity										
str. order_id										
- 🍰 report_date										
🛗 report_date(year)										
report_date(quarter)										
report_date(month)										
report_date(week)										
🛗 report_date(day)										
str. customer_name										
str. order_level										
Measures 🗕 🕂 🗏										
- 🏱 Default										
Nº order number										
Nº order amt										
Nº back point										
Nº profit amt										
Nº price										
t= iisiiseshangabu										
_x ., jiajianchengchu										

- 3. In the dimension list, locate the area option.
- 4. Right-click the dimension and choose Change Dimension Type > Location > Region, as shown in the following figure.



When the dimension type is changed to geographical information, the selected geographical information must match with the field. For example, if the field is

area, you must select Region in the geographical information list. Otherwise, the dimension type cannot be changed.

<	company_sale	es_record							
Datase	Dataset 🤹 💿								
Q Sear			0		0	Str.		125	
Dimen	sions +	area	province		city	ord	ler id	report date(day)	
- 🗁 a	area_Hierarchy						_		
0	area 🧯	🖉 Edit							
0	province	~							
(city	Show All							
Str. (order_id	× Delete							
· ····	report_date(vear)	+ Create Calculated Field	(Dimensions)						
	report_date(quarter)	· · · ·							
	report_date(month)	ል Move Io	•						
	report_date(week)	🕀 Create Hierarchy							
	report_date(day)	B Move Out							
Str. (customer_name	L Maya Dawn							
Str. (order_level	↓ Move Down							
Measu	res 💻 🗉	↓ Convert To Measure							
	order number	← Change Dimension Typ	e	Da	te/Time (Source Format)				
Nº	order_amt			. 60			Country		
N₽	back_point			✓ Ge	0	•	Country		
N₽	profit_amt			Str	ing		🗸 Region		
N₽	price			Nu	mber		Province/Municipa	lity	
Nº	shipping_cost						City		
*÷	jiajianchengchu					-	ore,		
							District		
							Longitude		
							Latitude		
lavaccrin	atwoid(0)								

5. You can change to Province/Municipality or City in the same way, as shown in the following figure.



6. After the dataset is edited, click Save, as shown in the following figure.

S company calor	record					ع	
Company_sales						Ŷ	
Dataset 🧠	۵ (Refresh Pr	eview
Q Search by keyword.							
Dimensions +	•	eitu	ardar id	report data(day)	suctomor name	sin orden level	shippir
- 🏱 area Hierarchy	province	city	order_id	report_date(day)	customer_name	order_level	shippi
© city							
str. order id							
· A report date							
report date(year)							
report_date(quarter)							
report_date(month)							
report_date(week)							
report_date(dav)							
Str. customer name							
Str. order level							
Str. shinning type							
St. product_type							
str. product_sub_type							
str. product_name							
Measures = +							
- 🗁 Default							

7. Click Refresh Preview. The data is automatically displayed in the table, as shown in the following figure.

く 章 company_sales_record_英文最新									
Dataset =	€ 0					Re	fresh Preview		
Dimensions +	sir. customer name	str. product box	se. back point	str. order level	str.	© area	© provin		
Str. customer_name Str. product_box	Ali	Huge Box	0	L1	Truck	Center	-		
str. order_level str. shipping_type	Ali	Huge Box	7.0000000000000007 E-2	L3	Truck	North	-		
 area province 	Ali	Huge Box	0	L2	Truck	North	1.0		
© city str. product_type	Ali	Huge Box	0.08	L2	Truck	Northeast	100		
str. product_sub_cype	Ali	Huge Box	0.03	L2	Truck	Northwest	-8		
Measures 🛥 🕂 🖩	Ali	Huge Paperbag	0.13	L3	Train	Center	-		
✓ Default № order_number	Ali	Huge Paperbag	0.09	L3	Truck	Center	-		
Nº order_amt Nº profit_amt	Ali	Huge Paperbag	0.09	L3	Truck	Center			

2.3.5 Toolbar

You can save, refresh, synchronize, and enable the protected security level for a dataset by using the toolbar.

- · Lock mechanism: protects data when the protected security level is enabled.
- Sync Schema: detects changes of fact tables such as field adding and the dataset is synchronized with the changes. Deleting or renaming fields does not cause deleting dimensions or measures of a dataset
- Refresh Preview: refreshes a dataset and displays the data preview. Save before refreshing a dataset to view the latest data.
- Set Filter: sets filters for a dataset to avoid full table scan.
- · Save: saves a dataset.
- Save as: saves a copy of a dataset.

2.3.6 Add a grouping field

On the dataset edit page, you can select Add Grouping Field to classify values in a field into different groups, and create a new field to store the grouping information.

Note:

- $\cdot~$ This function is only available in Quick BI Pro.
- Classic workbooks do not support the grouping function. Classic workbook is a feature of the beta version. It will be deprecated soon. We recommend that you use workbooks.
- 1. On the Datasets page, click a dataset name.
- 2. On the Datasets page, choose + > Add Grouping Field next to Dimensions.



3. In the Edit Grouping Field dialog box, enter the required information and click OK.

Edit Grouping Fie	ld						×
 Field Name : The nur (V, 	Enter a name for t field name must be 1 mbers, Chinese charact vertical bars (), parent	to 50 a ers, un heses (ouping field. haracters in lea derscores (_), fo (`)), and square	ngth and can coi prward slashes (/, : brackets ([]).	ntain letters,), backslashes	1	
Grouping Field :	customer_name	~	Group By :	Value	~		
Groups Group1 Ungrouped	+	[Select an iter	n or manually (enter an item.	-
						Cancel	ОК

4. Click Save and then click Refresh Preview. The dimension list shows the grouping field.

2.3.7 Join data tables

If you have multiple tables based on the same data source, you can use the Table Joinb function to join multiple tables by using the snowflake model. For example, when you join Table A with Table B and join Table B with Table C, Quick BI automatically adds join fields involved in hierarchies to the dimension and measure lists of Table A.

Description of joined data tables



• You cannot associate multiple datasets with charts in Quick BI Basic and Quick BI Pro.

- You can associate multiple datasets with charts in Quick BI Enterprise Standard
 Now, this feature is only available when the data source type is MaxCompute,
 MySQL, and Oracle.
- The associated data table can only be the original table in the database. Currently, it cannot be associated with created datasets.

Currently, you can use the following three joins in Quick BI:

- Inner join
- Left outer join
- \cdot Full join



You cannot use a full join on a MySQL data source.

Example of joining data tables

1. Click the Join icon to enter the Table Join page as the following figure shows.

≋ 🚺	
company_sales_record_en_testL	+

2. Click the + icon to add a table that you want to join.

3. Click the drop-down arrow for Dataset Field to select a field as the following figure shows.

Dataset Field	Join Type	Join Table	Join Fi	eld Actions	
Select an option. 🗘	- 🔵 🗘	<	> -	⇒ 茴	
Select an option. ustomer_name rder_level		Add J	oin Field		
hipping_type rea rovince					
ity roduct_type					
roduct_sub_type roduct_name roduct_box					
rder_number rder amt					
ack_point rofit_amt					
rice hipping_cost					

4. Click the drop-down arrow for Join Type to select a type as the following figure shows.

Build Table Join for company_sales_record_en						
Dataset Field	Join Type	Join Table	Join Field	Actions		
Select an option. \Diamond	- •	≎ –		☆ 🗇		
		Add Join Fiel	d			

5. Click the drop-down arrow for Associate Table to select a table as the following figure shows.

Dataset Field	Join Type	Join Table	Join Field	Actions	
Select an option. 🗘	- 🔍 🗘	\$ -	\$	Ē	
			ield		
		0321_table_test			
		0620_new_table			
		20160616_table_test			
		20160811_table_test			
		adult_statistics_demo			
		authorize_3rd_token_			
		buc ads table test			

- 6. Click the drop-down arrow for Join On to select a field.
- 7. Click OK to add a join table.

≢ ①		
		<u>ر</u> 1
company_sales_record_en	company_sales_record	₫ 🕂
	2 +	

- Click the + icon at position 1 to join the third table with the second table.
- Click the + icon at position 2 to join the third table with the first table.
- 8. Click the Preview icon to switch to the preview mode as the following figure shows.

Dataset =	۵ ا					Refresh Pr	eview Set Fil	er Sync Schema
Dimensions +	su. customer_name	av. order_level	shipping_type	area	province	。 city	se. product_type	<pre>product_sub_type</pre>
str. customer_name str. order_level str. shipping type	Cardy	ш	Plain	North	北京	Beijing	Office	band

9. Click Save to save the dataset.

Note:

Before saving the dataset, you can click Set filter conditions to filter the data in the current dataset to reduce searches for non-relevant data when using this dataset.

۲				Refresh Pr	eview Set Filter	Sync Schema
ex. customer_name	Set Filter Fields		×		product_type	product_sub_type
Cardy					Office	band
Cardy	Filter Fields	Set Filter Conditions Filter by Condition Filter by Value	2		Office	Box
Clark	🔍 city 🗸 🖻	Single Select Multiple Select			Technique	Accessory
Cardy					Furniture	Decorator
Cardy					Technique	Accessory
Cardy					Technique	Fax
Cardy					Office	Appliance
Cardy					Furniture	Table
Cardy			_		Technique	Telephone
Cardy		Cance	OK		Furniture	Table

2.3.8 Enable table scan

Enable table scan

You can enable the table scan function for MaxCompute (formerly known as ODPS) datasets. Follow these steps to enable table scan:

- 1. On the Datasets page, right-click a MaxCompute dataset, and select Edit Properties.
- 2. On the Properties page, select the Table Scan option to enable this function.

2.3.9 Search for and delete datasets

After you create a dataset, you can search for and delete the dataset.

Search for a dataset

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.

3. In the search box, enter a dataset name or the creator's name.

:=	Datasets All Items My Items	Nar	me 🔨 Q company	× + Create Dataset	+ Create Folder
/ DefaultWorks 🗇 👻	Root Directory > Search Results	Nai	me ated By		
BI Portals	Name 🜩	Created By 🌲	Modified By/At	Data Source	Actions
 Dashboards Workbooks 	company_sales_record_en_0423 QBI_COMPA_1555987296819	1014111200011010	1094112500318210 4/78/0013, 11:04:23	quickbi_test MySQL	⊠ al ⊜ :
🗊 Datasets	company_sales_record_cn_0423 QBL_COMPA_1555987407482	10041110000310210	1094112500318230 4/28/2013, 11/2016	quickbi_test MySQL	⊠ ,ıl ≋ :
♦ Data Sources	company_sales_record_from_ODPS company_sales_record	1004111000010210	1094312500318230 4/78/7818, 30:12/28	luyao_online_proj MaxCompute	⊠ al ≋ :
	company_salea_recrod_copy0115 company_salea_recrod_copy	1044012000010210	1014212200211220 1/13/2013, 16:06:02	quickbi_test MySQL	⊠ al \$:

4. Click the search icon to search for the dataset.

Delete a dataset

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select a dataset. Click More in the Actions column or right-click the dataset.
- 4. Select Delete to delete the dataset.

2.3.10 Rename, transfer, and set security levels

You can rename, transfer, and set the security level for a dataset by editing the properties of the dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select a dataset, click the More icon in the Actions column and select the Edit Properties icon from the drop-down list.

4. On the Edit Properties page, you can perform the following operations on the dataset.

Edit Propert	es	
* Name:	0.0000000000000000000000000000000000000	
Owner:	Inter-Longiture	~
Description:	Enter a description.	1,
Security Level:	 Private (Allow Only Workspace Owner to Edit) Protected (Allow Other Workspace Members to Edit) 	

- Change the dataset name.
- · Change the dataset owner.
- Change the security level. If you choose Protected as the security level, you need to lock the data object first before editing it.
- Scan Full Table: Enables this feature to scan the full table.



This feature only applies to MaxCompute data sources.

2.3.11 Manage datasets

On the datasets page, you can create, rename, and delete dataset folders.

Create a dataset folder

- 1. Log on to the Quick BI console.
- 2. In the left-side navigation pane, select Datasets.
- 3. Click Create Folder and enter a folder name.

4. Click OK.

:=	Datasets AII	I Items My It	Create Folder	×	e V Q Total Files: 0	+ Create Dataset	+ Create Folder
🕼 DefaultWorks 😔 👻	Name 🖨				Created By 🖨		
BI Portals	MyDatasets		Name : Enter a folder name.		5094112100153210	5094112100153210 1/10/2019, 22:21:12	
Dashboards							
Workbooks			[Cancel OK			
Datasets							
<-> Data Sources							

Rename a dataset folder

- 1. Log on to the Quick BI console.
- 2. In the left-side navigation pane, select Datasets.
- 3. Select a dataset folder. Click the Rename icon, or right-click the folder and select Rename.
- 4. Enter a new folder name, and clickOK.

Datasets All Items M	y li Rename	×	ne 🗸 Q Total Files: 0		+ Create Dataset	+ Create Folder
Name 🚔			Created By 🖨			
MyDatasets	* Name : MyDatasets		5094112100153210	5094112 1/10/201	100153210 19, 22:21:12	
		Cancel OK				

Delete a dataset folder

- 1. Log on to the Quick BI console.
- 2. In the left-side navigation pane, select Datasets.
- 3. Select a dataset folder. Click the Delete icon, or right-click the dataset folder and select Delete.
- 4. Click OK to delete the dataset folder.

Datasets	All Items My	•		e → Q Total Files: 0		+ Create Dataset	+ Create Folder
Name 🌻		*	Are you sure that you want to delete this folder?	Created By 🜲			
MyDatasets			Cancel OK	5094112100153210	50941121 1/10/201	100153210 9, 22:21:12	

2.3.12 Dataset row-level permissions

For more information about row-level permissions of datasets, see #unique_66.

3 Create dashboards

3.1 Dashboard overview

This topic describes the basic concepts of a dashboard, including the chart types, scenarios, and chart elements.

For more information about the basic operations on a dashboard, see Dashboard basic operations.

For more information about creating charts, see Create a chart.

The dashboard provides a flexible tile view to show the interaction between data. It visualizes data and supports filtering and querying a variety of data types. It displays data in various ways and highlights the keyword segments in the data.

In terms of data visualization, the dashboard guides you through dragging or double -clicking a field to display data explicitly. In terms of data analysis, the dashboard utilizes user-friendly notifications to improve user interaction.

Data visualization performance has improved significantly. On the editing page of the dashboard, you can filter dynamic data.

Chart types and scenarios

You need to use the corresponding charts to display different types of data. Quick BI currently supports 35 types of charts, including line charts, vertical bar charts, bubble maps, and funnel charts.

Analysis type	Description	Scenarios	Applicable charts
Comparison	Compares the differences between values, or compares the measures based on the dimensions.	Compares the sales /income difference s between different countries or regions.	Vertical bar chart, combination chart , horizontal bar chart, radar chart, funnel chart, cross table, pivot table , polar diagram, tornado-leaned funnel chart, and word cloud.

The following table describes the analysis types and scenarios for each chart.

Analysis type	Description	Scenarios	Applicable charts
Proportion	Displays the percentage of a portion of the whole, or the proportion of a certain value compared to the whole.	Displays the sales of the salesperso n who has the greatest percentage of total sales.	Pie chart, funnel chart, gauge, and treemap.
Relationship	Displays the relationship between values, or between measures.	You can view the relationsh ip between two measures and learn the influence the first measure has on the second measure.	Scatter chart, treemap, kanban , hierarchy chart, flow analysis chart, and progress bar.
Trend	Displays data trends (especially trends based on the date such as the year/month/day), or the progress of a data indicator and other possible patterns.	You can view trends in sales or revenue for a product over a period of time.	Line chart and area chart.
Geographic map	Displays the relevant data and distribution range for a country or region on the map. The datasets used must include geographic data.	You can view the income for each region in a country.	Bubble map, colored map, and LBS bubble map.

The elements of a chart

Each chart has three tabs, which are Data, Style, and Advanced, as shown in the following figure.

 $\cdot\,$ Settings in the Data tab determine the data shown on the chart.

- Settings in the Style tab determine the appearance of the chart and the details to be displayed.
- Settings in the Advanced tab determine whether the data and multiple charts can be linked, and dynamically display the interaction and comparison of the data as needed.

The charts provided by Quick BI present distinct perspectives and data elements for different visualization scenarios. Take the geographic chart as an example. A core data element is latitude. Otherwise, the map cannot display data.

Chart Type	Elements	Chart Configuration
Line chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Area chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Stacked area chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
100% stacked area chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Vertical bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.

The following table describes the elements of each chart.

Chart Type	Elements	Chart Configuration
Stacked vertical bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
100% stacked vertical bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Circular bar	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Combination chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Horizontal bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
Stacked horizontal bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.
100% stacked horizontal bar chart	Category axis and value axis	The category axis must have at least one dimension. The value axis must have at least one measure.

Chart Type	Elements	Chart Configuration
Pie chart	Labels and central angle	The label contains only one dimension, and the value of the dimension must be less than or equal to 12. The central angle has only one measure.
Bubble map	Location and the bubble size	The location contains only one dimension, which is the geographic dimension . The bubble size element can have 1-5 measures.
Colored map	Location and colorscale	The location contains only one dimension, which is the geographic dimension . The colorscale element can have 1-5 measures.
Geo bubble map	Location and the bubble size	The location contains only one dimension, which is the geographic dimension . The bubble size element can have 1-5 measures.
Geo map	Location and colorscale	The location has only one dimension, which is geographic data. The color saturation has only one measure.
LBS bubble map	Geographical area and LBS bubble size	The geographical area has only one dimension, which is the latitude. The LBS bubble size element can have at least one and at most five measures.
LBS heat map	Location and LBS heat metric	The geographical area has only one dimension, which is the latitude. The LBS bubble size element can have at least one and at most five measures.

Chart Type	Elements	Chart Configuration
LBS flying line map	Geo location (from), Geo location (to), and routes (measures).	You can select a maximum of two dimensions for the geo locations. You can select a minimum of one and a maximum of five measures for the routes.
Cross table	Row and column	The row has unlimited dimensions. The column has unlimited measures.
Gauge	Indicator angle and tooltip	The indicator angle has only one measure.
Radar chart	Radius label and radius	You can select a minimum of one and a maximum of two dimensions for the labels. You can select a minimum of one measure for the lengths.
Scatter chart	Colors, X-axis, and Y-axis	You can select a minimum and maximum of one dimension for the color legend. The number of the dimension's values is up to 1,000. You can select a minimum of one and a maximum of three measures for the x-axis. You can select a minimum and maximum of one dimension for the y-axis.
Bubble chart	X-axis, Y-axis, and bubble size	The X-axis has only one dimension. The Y-axis has only one measure. The bubble size has only one measure.
Funnel chart	Tier labels and tier area	The tier labels element has only one dimension. The tier area element has only one measure.

Chart Type	Elements	Chart Configuration
Kanban	Labels and metrics	You can select a maximum of one dimension for the labels. You can select a minimum of one and a maximum of 10 measures for the metrics.
Treemap	Rectangle label and rectangle size	The rectangle size element has only one dimension, with a value less than or equal to 12. The rectangle size element has only one measure.
Polar diagram	Slice label and arc radius	The slice label element has only one dimension, with a value greater than or equal to three and less than or equal to 12. The arc radius element has only one measure.
Word cloud	Word size and word	The word size element has only one dimension. The word element has only one measure.
Tornado-leaned funnel chart	Comparison and contrast indicator	The comparison element has only one dimension. The contrast indicator has at least one measure.
Hierarchy chart	Node label and node metric	The node label has at least two dimensions. The node metric has at least one dimension.
Flow analysis	Previous Page, Current Page, and Next Page. Previous Page PV, Previous Page UV, Current PV, Current UV, Next Page PV, Next Page UV, Conversion Rate, and Bounce Rate	Each data element has only one dimension and one measure.

Chart Type	Elements	Chart Configuration
Progress bar	Progress Indicator	The progress indicator has a minimum of one and a maximum of five measures
Pivot chart	Row and value	The row has unlimited dimensions. The value has unlimited measures.

3.2 Dashboard basic operations

3.2.1 Basic dashboard operations

This topic describes how to go to the Dashboards page and perform basic dashboard operations.

For more information about dashboards, see #unique_72.

To learn how to create charts, see **#unique_49**.

Go to the Dashboards page

Quick BI Quick BI Pro

1. Log on to the Quick BI console.

- 2. Click Workspace > Dashboards to go to the Dashboards page.
- 3. Click Create Dashboard > Standard to go to the dashboard editing page.

Quick BI Professional edition

- 1. Log on to the Quick BI console.
- 2. Click Workspace > Dashboards to go to the Dashboards page.
- 3. Hover your mouse cursor over Create Dashboard button and select a display mode. Click the display mode, as shown in the following figure.

For more information about how to create standard dashboards, see Standard dashboards.

For more information about how to create full-screen dashboards, see Full-screen dashboards.

Areas of a dashboard

You can perform basic dashboard operations in the following three areas.

- · Dataset selection area
- · Dashboard configuration area
- · Dashboard display area

Dataset selection area

In the dataset selection area, you can switch from an existing dataset to another dataset. Based on the preset data types, the fields of the new dataset are displayed in the dimension list and the measure list. You can select dimension and measure fields based on the data elements in the chart.

Dashboard configuration area

In the dashboard configuration area, you can select a chart type, and edit the title, layout, and legend pattern of the chart. In Advanced Settings, you can relate multiple charts and display analysis results from multiple perspectives. You can filter data using Filters. You can also insert a filter bar to search any key metric in a chart.

Dashboard display area

In the dashboard display area, you can drag and drop a chart to change its position as you like. You can also change the chart type based on your needs. For example, you can change a column chart to a geo bubble map. The system will display the missing or error elements based on the basic components of different charts. The dashboard provides a guide feature to help you learn how to create a dashboard.

3.2.2 Switch datasets

In the dataset selection area, you can select or switch datasets, and search for datasets by dimension and measure fields.

- 1. Click the Dataset Switch icon.
- 2. In the drop-down list, select or search for the datasets that need to be analyzed, such as company_sales_record.

If you cannot find the required dataset from the drop-down list, go back to the dataset management page and ensure that the dataset has been successfully created.

For more information about how to create datasets, see **#unique_76** Create datasets.

3.2.3 Search for the dimensions field and the measures field

After you have selected the datasets, the system automatically separates fields into the dimension and measure areas.

You can enter a keyword in the search bar, and click the search icon. The system automatically searches for the fields that contain the keyword.

- 1. For example, enter a keyword called product in the search bar.
- 2. The fields that contain the keyword automatically appear in the list, as shown in the following figure.

3.2.4 Configure a chart

You can select a chart in the configuration area of a dashboard. After you select a chart, you can configure this chart.

You must ensure that you have selected a dataset on the Data tab before you create a chart. In addition, dimensions and measures are applicable.

For more information about dimensions and measures, see #unique_79.

1. After you click a chart icon, the selected chart appears in a dashboard.

You can switch a chart to other types by clicking Change chart type in the upperright corner of the page.

- 2. On the Data tab, select the required dimensions and measures.
 - Click the cross icon next to a field to remove this field from the Category Axis (Dimensions) area.
 - Click the triangle icon next to a field to display the values of this field in ascending or descending order.

3. Select a field and drag this field to the Colors (Dimensions) area.

The selected field appears in a chart with the specified color. If you fail to drag a field, an error message occurs. You can follow the instruction on the message to add or remove dimensions and measures.

Take the product_type field as an example.

- a. Drag the product_type field to the Colors (Dimensions) area, and then click Update.
- b. Select Style > Series settings to change your color matching themes.
- 4. Select the time interval that data automatically refreshes on the Auto refresh list.
- 5. On the Style tab, you can change the visual format of a chart by setting options in General config, Style, Layout, Axis, and Series settings.

You can change a unit by setting a number in the Unit area. You can only multiply the values of a field by the number you set in the Unit area.

Assume that the previous unit is centimeter. If you want to display data in meters , you must divide the previous unit by 100. In the Unit area, you can enter 0.01 in this case. For a multiplication operation, you can enter 100.

6. On the Advanced tab, you can associate the current chart with other charts.

You must ensure at least two charts are created in the display area of a dashboard before you associate charts.

3.2.5 Filter by fields

When you work with a large dataset, you can use the filter feature to view only specific types of data from the dataset.

You can filter data of the string, number, or date type.

Filter data in string type

You can filter municipalities from the province field using the filter feature.

Take filtering municipalities as an example.

- 1. Drag the province field to the Filter Bar area, as shown in the following figure.
- 2. Click the Set Filter icon, and set filtering criteria.

3. Select the required filtering criteria. For example, select Filter by Enumeration, as shown in the following figure.

Set Filter	×	
<pre>company_sales_recor</pre>	province	
Filter by Condition	Filter by Value	
Search by name.	Added Items: 0 🖉 Specify	
Anhui Beijing		
Fujian		
Guangdong	Add required items from the K left-side list.	
Guizhou		
Hainan Select All		
Add by Select Sequence	ок	

4. Manually enter the field names or select the city names from the list.



- 5. After you have specified the fields, click OK.
- 6. Click Update. The system automatically redraws the chart based on the filters.

Filter numerical data

You can specify filtering criteria in the filter. For example, you can specify the order number with a value between 50 thousand and 100 thousand. In this case, the chart displays data based on your specified range.

Take filtering profit amount as an example.

- 1. Drag the profit amount field to the Filter Bar area.
- 2. Click the Set Filter icon, and set filtering criteria.
- 3. Select the filters as needed, such as greater than, less than, or equal to, as shown in the following figure.

Set Filter			\times
<pre>company_sal</pre>	es_recor	№ III profit_amt	
●Or ○And			
> ~	500000	or	
<= \	1000000		
+Add Condi	tion 2/2		
		Cancel	ОК

- 4. After you have specified the fields, click OK.
- 5. Click Update. The system automatically redraws the chart based on the filters.

Filter data in date type

You can use the filter feature to filter data in a specific date range. For example, you can filter the order amounts in the range from 2013 to 2015.



You can filter data in date type exact to seconds.

Take filtering order dates (year) as an example.

1. Drag the order date (year) field to the Filter Bar area. Click the Set Filter icon, and set filtering criteria.

2. Select the filters as needed. For example, specify the Absolute Time with the range from 2013 to 2015, as shown in the following figure.

Set Filter		\times
<pre>company_sales_reco</pre>	or 📋 🛄 (year)	
Filter by Duration	n 🗾 Filter by Date	
Duration	1 2015	
Start At:	End At:	
Absolute Time \sim	Absolute Time \sim	
2013	2015	
	Cancel	К

- 3. After you have specified the fields, click OK.
- 4. Click Update. The system automatically redraws the chart based on the filters.

3.2.6 Sort data

In the Data tab, you can sort the data based on the selected measures and dimensions. The chart displays the data trend based on the sorted result.

Procedure

1. Select order_number, click the triangle icon next to the field, as shown in the following figure.

The upward triangle indicates ascending order, and the downward triangle indicates descending order.

2. Click Update.

3.2.7 Standard

In Standard mode, you can perform the following operations in a dashboard.

- · Adjust the chart position
- View the chart data
- · Delete a chart
- Change the chart type
- · Add to favorites
- Global variables

The Dashboards wizard is displayed when you use Quick BI Dashboards for the first time. You can learn operations on a dashboard by following the wizard.

More operations

In the upper-right corner of a chart, click the More Actions icon. Then you can perform the following operations.

- Move To: moves the chart to a tab container.
- · View Data: views the data of the chart.
- · Export: exports the data of the chart in Excel format.
- · View SQL Statements: views the SQL statements of the chart.
- Copy: copies the chart.
- Delete: deletes the chart.



Change the chart type

On the dashboard page, you can change the chart type.

Select a chart, click Change Chart Type in the Graphic Design panel, and select a chart type to change the chart type.

- 1. Select a chart in the dashboard.
- 2. Click Change Chart Type as shown in the following figure. Change the chart type to Radar Chart as shown in the following figure.

3. The chart updates as shown in the following figure.

A failed change of the chart type indicates that the chart elements for the two chart types do not match. You need to manually modify the fields used for chart elements to change the chart type.

The chart elements for which you need to modify the fields are displayed based on the target chart type. Select the fields from the Dimensions and Measures lists as needed and add them to the corresponding sections of chart elements to change the chart type.

Add to favorites

Click the Add to Favorites icon next to the dashboard name to add a dashboard to the favorites.

Page settings

Click the Page Settings icon to configure whether to allow downloads of the dashboard and whether to add watermarks.



Global variables

After creating a dashboard and clicking Save, you can configure global variables. You can use global variables for page jumping. For more information, see #unique_83.
) O [}	
e 🛬 🐑 🗮	₩ 34				
bbal Variables					
(lebel)/esiebles					
Enter a name.					
		Enter a name	e for the required field.		
					Cancel

3.2.8 Fullscreen mode

In the fullscreen mode, you can perform the following operations in the display area of a dashboard.

- · Change chart position
- · Add a subscreen
- · View chart data
- · Delete chart
- · Change chart type
- Configure settings

Change chart position

In fullscreen mode, a chart will be scaled to its maximum extent in the display area of a dashboard. In addition, when multiple charts exist in a dashboard, click the arrow cross icon and hold down the left button, and then drag charts to change the arrangement as shown in the following figure.

Add a subscreen

- 1. Click the plus icon in the lower-right corner as shown in the following figure.
- 2. In a subscreen, you can add a chart as shown in the following figure.
- 3. Click the dot icon to switch between subscreens as shown in the following figure.
- 4. Click the Delete icon to delete a subscreen as shown in the following figure.

View chart data

- 1. Select a chart.
- 2. Click the More icon in the upper-right corner of a chart.
- 3. Select View Data.
- 4. Click the Export button in the Data Info dialog box to download data to your local disk.

Delete chart

- 1. Select a chart.
- 2. Click the More icon in the upper-right corner of a chart.
- 3. Select Delete.

Change chart type

- 1. Select a chart in the display area of a dashboard.
- 2. In the configuration area of a dashboard, click Change chart type.
- 3. Select a chart type that you want to change to.

A chart may fail to change types. This issue occurs when data fields of the selected chart type do not match those of the current chart data. You must modify these fields manually to change the chart type.

You are required to modify some data fields based on the selected chart type. To change chart types, follow the instructions on the screen to change corresponding dimensions and measures.

Configure settings

Click Page setting to change the page scale, skin setting, theme, time interval to update data, and the time interval of carousel set.

3.3 Visualization analysis

3.3.1 Drilling, filter interaction, and hyperlink

Quick BI supports drilling, filter interaction, and hyperlinks for multi-dimension data analysis. This topic describes the scenarios and instructions about these features.

Overview

- Drilling: In the dashboard, click a section in a chart or a field in a table in the dashboard. The granularity of analysis changes as the dimension level changes.
- Filter interaction: In the dashboard, click a section in a chart. Other charts related to the chart change accordingly.
- Hyperlink: In the dashboard, click a field in a chart and you are taken to the linked page. You can use global parameters and URLs for page jumping.

Note:

Hyperlinks only apply to cross tables and scatter charts. Using global parameters for page jumping only applies to group workspaces. For more information about group workspaces, see #unique_87.

Scenarios

The following example describes how to perform filter interactions among charts, drill through a hierarchy to change the granularity of data analysis, and jump to the Order information pages by using hyperlinks in Quick BI.

The example uses the company_sales_record dataset. You can click sample sales data and create the same dataset based on the downloaded CSV file. For more information about datasets, see #unique_48 and #unique_76.

Procedure:

- 1. Edit a dataset
- 2. Create a dashboard
- 3. Set drilling

4. Set filter interactions

5. Set hyperlinks

Edit a dataset

Make sure that you have converted the dimension type of the area, province, and city fields to Geo and have added them to the same hierarchy.



Create a dashboard

- · Create the company's market data dashboard
 - 1. Create a dashboard named company's market data based on the company_sales_record dataset.
 - 2. Create a pie chart as shown in the following figure and name it Regional order proportion analysis.



3. Create a colored map as shown in the following figure and name it Regional sales.



4. Create a cross table as shown in the following figure and name it Order information.

Тд	🖺 🖻 🛷	- du 🕚	🗉 🥠 🗐	<u>@</u>	🔻 🔄 🛤 📼	₽- 9 -9		Graphic Design	
🖥 Order i	nformation		a sourcom			n	:	Data	
area	report_date(year) 🕭	product_type	customer_name	order_level	shipping_date(hour)	product_box	order_number	Choose a data type:	
Center	2013	Furniture	Ali	L2	00:00:00	Large Box	21	Pow	í
<u>East</u>	<u>2013</u> 00	Furniture	Cox	L1	00:00:00	Large Box	25		
North	2013	Office	McAllister	L2	00:00:00	Small Box	33	Str.area	≑×
Northeast	2013	Office	Quinn	L3	00:00:00	Paperbag	11	report_date(year)	⇒×
<u>Northeast</u>	2013	Technique	Dorsey	Others	00:00:00	Small Box	10	Str.product_type	⊜×
South O	2013	Office	Ferrari	L3	00:00:00	Small Box	48	Str.customer_name	≙x
								Str product_box	⇒× ⇒× ×⇔ (×⇔
								Column	⇔×

After the creation, the company's market data dashboard is as follows.



đ	Order	information
۶	Order	information

area	report_date(year)	product_type	customer_name	order_level	shipping_date(day)	product_box	order_number
<u>Center</u>	2013	Furniture	Ali	L2	20130614	Large Box	41
<u>Center</u>	2013 a.com	Furniture	Ali	L2	20130616	Large Box	21
<u>Center</u>	2013	Furniture	Ali	L2	20131004	Small Box	15
Center	2013	Furniture	Ali	L2	20131006	Small Box	21
<u>Center</u>	2013	Furniture	Barker	L2	20130107	Huge Box	2
<u>Center</u>	2013	Furniture	Barker	L2	20130108 (2010)	Huge Box	69
Center	2013	Furniture	Barker	L2	20130125	Large Box	18

WURLCON)

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mancom

· Create the Order profits dashboard

Create a dashboard to show order profits. Name the dashboard Order profits and create a cross table called Order profits.

Crd	er profits							:	Data	2
2102	product type	customer name	order level	chinning type	product how	chinning data(day)	ordor number	ord	Choose a data type:	
Grada	product_type	cuscomer_name	order_lever	shipping_cype	product_box	Shipping_date(day)	order_number	oru		
Center	Furniture	Ali	L2	Plain	Small Box	20131004	15		Row	11
Center	Furniture	Ali	L2	Plain	Small Box	20131006	21			<u></u>
Center	Furniture	Ali	L2	Train	Large Box	20130614	41		🛛 area	≅x
Center	Furniture	Ali	L2	Train	Large Box	20130616	21		<pre>str.product_type</pre>	⇒x
Center	Furniture	Ali	L3	Train	Huge Paperbag	20150916	61	531.43(Str. customer_name	⇔x
<u>Center</u>	Furniture	Ali	L3 test@a	Train	Huge Paperbag	20150917	20		Strorder level	≙x
Center	Furniture	Ali	L3	Truck	Huge Paperbag	20141115	28			~~~
Center	Furniture	Ali	L3	Truck	Huge Paperbag	20161025	34		str.snipping_type	≜x
Center	Furniture	Barker	L2	Train	Large Box	20130125	18		Str.product_box	⊜x
Center	Furniture	Barker	L2	Train	Large Box 1018	20130426	38		shipping_date(day	y) ⊜×
Center	Furniture	Barker	L2	Train	Large Box	20130503	45		i	
Center	Furniture	Barker	L2	Train	Large Box	20130605	68		Column	
Center	Furniture	Barker	L2	Train	Large Box	20130606	6		No Ellipordor, pumbor	
Center	Furniture	Barker	L2	Train	Large Box	20130611	14			~
Center	Furniture	Barker	L2	Train	Large Box	20130728	46		Nº Morder_amt	⇔×
Center	Furniture	Barker	L2	Train	Large Box	20130729	92		Nº Emprofit_amt	⇒×
Center	Furniture	Barker	L2	Train	Large Box	20130730	80		Nº Emprice	⇔x
Center	Furniture	Barker	L2	Train	Large Box	20131128	66		Nº Ellishipping cost	≙x
Center	Furniture	Barker	L2	Train	Large Box	20131207	26			
Center	Furniture	Barker	L2	Train	Large Box	20131209	3		Empack_point	⇒x
· · · · · ·	e	Dealers	1.5	+	1 D	20140110	25			
									Filters	

Set drilling

You need to manually enable the drilling feature. Click the Drilling icon as shown in the following figure.



You can set a drilling hierarchy as follows.

• Use the hierarchy in the dataset: When the selected dimension of a dataset contains a hierarchy, the hierarchy is displayed by default. You can modify the hierarchy as shown in the following figure.

Drill (Dimensions)						
	⊚ area					
	o province					
	⊚ city					
Arc Radius (Measures) Double-click or drag-and-drop to						
Label (Dimensions)						
	area ⊜ <mark>ଟ</mark> ×					

• Customize the hierarchy: When the selected dimension of a dataset does not contain a hierarchy, you can customize the hierarchy and drag the drill dimension to the Drill (Dimensions) section.



You can enable drilling for a maximum of three dimensions in a cross table. Other charts support a maximum of one drill dimension. You can set a maximum of six levels of a hierarchy.

After the settings are complete, the drill icon appears on the left of the chart title as shown in the following figure.



• Drill down: In the Regional order proportion analysis pie chart, click the South slice and the pie chart based on the provinces of South appears. In the lower-left corner of the chart, the values of drill dimensions with higher levels are displayed.



• Drill up: Click area to drill up to the area-level data.

Filter interactions

1. In the company's market data dashboard, select the Regional order proportion analysis pie chart and click the Advanced tab in the Graphic Design panel .



2. Click the pen icon next to Filter Interaction .

3. In the Filter Interaction dialog box that appears, select the linked field area, the cross table Order information, and the colored map Regional sales. Click OK.

Chart linkage setting	Selected: Regional order proportion anal	ysis Dataset: 🍞 company sales recor	\times
select transition fields	Associated The same data set chart Linked with 2 charts , 2 charts in total Select All Regional sales	Different data sets Image: Content information	
		Cancel	ОК

4. In the Regional order proportion analysis pie chart, click a slice. Click the South slice and click Filter Interaction.

Both the Order information cross table and the Regional sales colored map show the sales details in the Se area. Move the pointer over the upper-right corner of the colored map and the filter value appears.



G Ord	ler information						
area	report_date(year)	product_type	customer_name	order_level	shipping_date(day)	product_box	order_number
<u>East</u>	2013	Furniture	Barker	L3	20130521	Huge Paperbag	4
<u>East</u>	2013	Furniture	Barrett	L2	20130131	Huge Paperbag	4
<u>East</u>	2013	Furniture	Barrett	L2	20130201	Huge Paperbag	38
<u>East</u>	2013	Furniture	Bishop	Others	20131230	Huge Box	48
<u>East</u>	2013	Furniture	Blake	Others	20130625	Huge Box	30
East	2013	Furniture	Blake	Others	20130628 and a start	Huge Box	16.97
<u>East</u>	2013	Furniture	Cardy	L1	20131220	Paperbag	39
<u>East</u>	2013	Furniture	Cardy	L1	20131222	Paperbag	38
<u>East</u>	2013	Furniture	Clark	Others	20131014	Small bag	12
East	2013	Furniture 🕼	Conde	L2	20130406	Medium Box	109 80 - 70
<u>East</u>	2013	Furniture	Conde	L2	20130408	Medium Box	38
<u>East</u>	2013	ture	Conde	L2	20130816	Small Box	70

Hyperlinks

Parameter

_

Scenario: Click Office in the Order information cross table and the Order profits dashboard is jumped to automatically. All Office orders are displayed.

· Configure global parameters



The following example uses global parameters for page jumping. You need to set global parameters first.

1. On the Order profits dashboard page, click the Global Variables icon.



2. In the Global Variables dialog box that appears, perform the configurations as shown in the following figure and click OK.

Parameter Items		×
Parameter Items product_type I	Chart associated with the parameter item ✓ Select All ✓ Corder profits	Select the parameter filter fields company_sales_record_en_us product_type
		Cancel

· Configure a hyperlink

- 1. In the company's market data dashboard page, select the Order information cross table, click the Advanced tab in the Graphic Design panel.
- 2. Click the pen icon next to Hyperlink.
- 3. In the Hyperlink dialog box, perform the configurations as shown in the following figure and click OK.

Link set Selected: Table-compa	ny_sales_r 🎁 com	pany_sales_rec		×
Please select the field you wan •	Link set Parameter Folding jump report Template	jump O External link	Onrofits	
	Associated global paramet	ers	opronos	0
	product_type ~	Associated latitude $ \lor$	product_type	∨ II
	Current window opens	open in a new window		
			Cance	ЮК

After configurations are complete, the product_type column values in the Order information cross table are displayed as hyperlinks.

Page jumps

Click Office in the Order information cross table, the Order profits dashboard is jumped to automatically. Only orders with Office as the value of the corresponding product_type field are displayed.

External link

You can jump to specified URLs such as web UIs of customer systems by using the external link feature.

- 1. Select the Order information cross table and click the Advanced tab in the Graphic Design panel.
- 2. Click the pen icon next to Hyperlink.

3. On the Hyperlink dialog box, select the fields that you want to hyperlink and select External Link as the hyperlinking method. Enter a URL and click OK.

Note:

You can add parameters to URLs by entering them manually or by double-clicking the fields in the Add Dimensions list.

4. Click the hyperlinked field values and the corresponding URL is jumped to.

3.3.2 Metric analysis

You can use metric analysis to view the trends and outliers of data. Currently, supported analysis tools include Auxiliary Line, Trendline, Prediction, and Anomaly Detection. Trendline, Prediction, and Anomaly Detection only apply to Quick BI Enterprise Standard.

Create a dashboard before you use metric analysis. For more information, see Create a dashboard.

Auxiliary lines

You can add an auxiliary line to view the difference between the value of a measure and the value shown by the auxiliary line. The value shown by an auxiliary is either a fixed value or an aggregate value. Aggregate values includes average, maximum, minimum, and median values.

- 1. On the edit page of a dashboard, choose Graphic Design > Advanced and choose Metric Analysis > Auxiliary line.
- 2. In the Auxiliary Line dialog box, click Add Auxiliary Line. Select a value type for the auxiliary line to be created.

$\cancel{4}$ $\cancel{4}$ $\cancel{5}$		💉 Change Chart Type -
Auxiliary Line	×	yle Advanced
+ Add Auxiliary Line		
Auxiliary line 1 Fixed Va Y Primary Axis Enter a value. Image: Comparison of the second sec	Î	~
Cancel	ОК	
L3 Others Auxiliary line		



3. Click OK. An example of auxiliary lines is shown as follows.

Trendlines

A trendline displays the trend of current data. Types of trendlines include Intelligent, Linear, Logarithmic, Exponential, Polynomial, and Power.

- 1. On the edit page of a dashboard, choose Graphic Design > Advanced and choose Metric Analysis > Trendline.
- 2. In the Trendline dialog box, click Add Trendline. Select a measure, a trendline type, and the number of subsequent periods for which to predict trends.

🐳 値 波 👩 🏛 🐴 🗐 🛈 🦷			Graphic Design	
Trendline			×	Style Advanced
	+ Add Trendline	2		
Trendline 1 Furniture V	Intelligent ^	📰 🗸 📕 🔻 Pred	ict 0 Periods	~
	Intelligent		Ē	/
	Linear		Cancel OK	
- Pala Pala	Logarithmic	10Mar		
	Exponential			
10 11 80 - 10 51 (2) 12 13	Polynomial	Uthers		Furniture Average
ini loi	Power		Trendline	



3. Click OK. An example of a trendline is shown as follows.

Prediction

•

You can add a predicted metric to view the trend of current data and predict the trend

- 1. On the edit page of a dashboard, choose Graphic Design > Advanced and choose Metric Analysis > Prediction.
- 2. In the Prediction dialog box, click Add Predicted Metric. Select a measure and a color for the line.

後 寺 祭 @ 車 泳 目 の 多 文 後 目 幸 34	Graphic Design	兴 Change Chart Type 🕶
Prediction	×	Style Advanced
+ Add Predicted Metric		
Metric 1 profit_amt V	Î	~
		/
	Cancel OK	
- Tals		
Hotel Hotel - Hotel - Hotel - Hotel - Hotel - Hotel - Hotel		1
in 180-test@aut		1
	Prediction	



3. Click OK. An example of a prediction is shown as follows.

Exception detection

You can add a detected metric to view the outliers of the current data.

- 1. On the edit page of a dashboard, choose Graphic Design > Advanced and choose Metric Analysis > Anomaly Detection.
- 2. In the Anomaly Detection dialog box, click Add Detected Metric. Select a measure.

後 寺 数 @ 車 含 目 ⑥ 後 至 後 曹 田 戸	Graphic Design	💉 Change Chart Type 🕶
Anomaly Detection	×	Style Advanced
+ Add Detected Metric		
Metric 1 v		v
	Cancel OK	· · · · · · · · · · · · · · · · · · ·
anna ann ann ann ann ann ann ann ann an		1
Cuinton Hally Haven Haven Langer Linning Hingson Standons Tartin Kaying Daging		1
		/

Line Chart-company_sale	s_record		:
	W ⁸⁰ - profit_amt		Inhao -re-
250K 200Kpalintun.com 10/20_105% 150K	Guangdong • (Anomaly) profit_amt 247.23K	Lulao-test@aliyun.com	
100k alinun com	Lui cressiaaliyun com	Like test Pally h cha	lune_test
-50K5	Guiangatong Hethy St. Henan Hunan Hangar	Alanang Williams Contractions	tinjiang Northern

3. Click OK. An example of an outlier is shown as follows.

Note:

In a line chart, outliers are represented as red dots. In bar charts, outliers are represented as red vertical bars.

3.4 Common widgets

The presentation area of a dashboard supports the following widget types. You can double-click or drag a widget to add it to the presentation area of a dashboard.

- · Standard mode
 - Filter bar
 - Text area
 - IFrame
 - TAB
 - Image
- Full-screen mode
 - Text area
 - IFrame
 - Image

3.4.1 Filter bars

You can use a filter bar to filter data in one or more charts. A dashboard can contain multiple filter bars. You can pin a maximum of one filter bar each time.

1. Click a filter bar.

2. Select a dataset and select the fields to be added to the filter bar as shown in the following figure.

			Data		Style
order_number: order_am		Query	Filter Fields		company_sales_record ∨ 🛛
> Y	¥		order_number		
			Nº Morder_number	© 🖻	Dimensions
			order amt		str. customer_name
			Nº Helorder amt	〇向	str. order_level
					str. snipping_type
Set Filter Dataset: @company_sal	es_record_e				×
View Filter Fields	label Namer product type	Enter a	filter (Enter a value	for data :	filtering)
	product_type	Criter e	(Line) a value	ioi data	internig.)
ser. product_type	Current Dataset Another Dataset	Set Filter (Conditions	🖒 Se	t Value Range
	Current Dataset (Linkod) O. Tatak 1) (D				
	Current Dataset (Linked: 0, Total: 1) 🕣	Filter	r by Condition		Filter by Value 🛛 🦽
	Select All Enter a keyword.	Single S	elect Multiple	Select	
	Charts-Line Chart-company_sales_record	0	O		
					·
					Cancel OK



Note:

You can select Enter a filter for a dimension field. After doing this, queries can be performed only when you select a value for the field.

- 3. On the Style tab page, you can perform the following operations.
 - Settings: configures the name of the filter bar, whether to show the name, whether to pin the filter bar, arrangement of filters in the bar, and whether to hide the Query button.



• Bar style: configures the height of the filter bar, alignment of filters in the bar, and label position.



• Field style: configures the style of filters and width of search fields.

Field Style ^	
Field Name Style	Field Width (1)
product_type Dro V	Custom 1 X

Currently, a filter bar supports filter interactions between charts of the current dataset or charts of different datasets.

Filter interaction example for the current dataset

- 1. Select Current Dataset. In the current dataset field list, select charts by the field type, as shown in the following figure.
- 2. Click Style to edit the display name of the filter bar.
- 3. Click Search to filter the associated charts.

Filter interaction example for different datasets

Filter bars can also filter data from different datasets. However, in the associated items, the data members must have the same fields. Otherwise, the interaction does not work.

- 1. Select a chart, such as a table.
- 2. Select the required fields, and then click Update.
- 3. Click the Style tab, and then change the display name and layout of the table. For example, set the display name of the table to overseas data.
- 4. Click the icon that switches datasets to change to another dataset.
- 5. Select a chart, such as a table.
- 6. Select the required fields, and then click Update.
- 7. Click the Style tab, and then change the display name and layout of the table. For example, set the display name of the table to domestic data.
- 8. Click the Filter Bar icon, and then select the dataset and add filter fields to the filter bar.
- 9. Select Other Dataset. In the Other Dataset list, select the associated items based on the field type.

10.Click the Style tab to specify the display name of the widget.

11.Click Search to update the charts filtered by the fields.

Cascade filter example

The filter bar supports cascade filtering, which simplifies the steps of setting multiple filters.

1. Create line charts on the dashboard editing page, as shown in the following figure.



2. Click the filter bar widget and then select the dataset and fields to be filtered. In this example, we select the province field as the filter, as shown in the following figure.

	Data
province:	Filter Fields
Query	province
	◎ province 🖥 ۞

3. Click the cascade icon. On the Configure Field Cascade page, click + Add cascading relationship to add the fields to be cascaded, and then click OK. In this example, we select the city field and the product type field.



• The cascade filter supports three-level cascades, with lines connected between the parent nodes and child nodes.

• The cascade filter supports renaming the cascade fields.

Configure F	ield Cascade	×
Primary:	province city city product_type product_typ	
	Cancel	ОК

4. Click Set Filter to set the filters and then click OK. In this example, we select Tile cascade display and Multiple Select, as shown in the following figure.

Set Filter _{Dataset} : @company_sa	les_record_e	X
View Filter Fields	Label Name: province Current Dataset Another Dataset Current Dataset (Linked: 0, Total: 1) ()	Set Filter Conditions You can only filter by specified v Display Mode: Tree Inherit from Same Dataset () Single Select Single Select Multiple Select province: Shanghai, Henan city: Anyang, Hebi, Jiaozuo product_type: Furniture You can only filter by specified v Multiple Select
		Cancel OK

Note:

The cascade display supports Tree cascade display and Tile cascade display. You can select Cognate inheritance and Manually set default values.

province : city : Shanghai, Henan \checkmark Anyang,	product_type : Hebi, Jiao~ > Furniture ~	Query
Line Chart	-order_number -order_am	t Shanghai,Henan / Anyang,Hebi,Jiaozuo /
14K 12K 10K		Furniture
A9 X8		
4K 2K		
0		United Factors Factors

5. In the search widget, click Search. The result is shown in the following figure.



Note:

To view the detailed information of the cascade, you can hover over the cascade icon in the upper-right corner.

Filter by date

When you filter data in date type, you can select the date range of the filter, manually set default values, and customize shortcuts, as shown in the following figure.

Set Filter _{Dataset:} <a>image: company_sales_record_e	×
View Filter Fields Label Name: shipping_date(month) Enter a filter. (Enter a value for data filtering.)	
Ereport_date(day) Current Dataset Another Dataset Set Filter Conditions	ge
Bipping_date(month) Current Dataset (Linked: 0, Total: 1) ① Select All Enter a keyword. Set Default Values Shortcut Duration Time Ranges	te
Cance	OK.

- 1. In the Data tab, select the dataset and the fields to be filtered, such as the order date (month).
- 2. Select a chart that needs to be filtered, and then click Set Time Range.
- 3. In the Set Time Range dialog box, enable Set Time Range, specify the time range, and then click OK, as shown in the following figure.

Set Filter _{Dataset} : 🇊compan	y_sales_record_e				×
View Filter Fields	Label Name: shipping_date(month)		Enter a filter. (En	ter a value for data filter	ing.)
🛗 report_date(day)	Current Dataset Another Dataset		Set Filter Conditions	🔕 Set Tim	ne Range
shipping_date(month)	Current Dataset (Linked: 0, Total: 1) ③ Select All Enter a keyword.	Set Time Ra	nge		
	Charts-Line Chart-company_sales_record	Start At Absolute	T V	✓ End At: Absolute T ∨	
		2019-04	Ē	2019-08	
		Time W Required Ti	indow for Dynamic Quer me Range 1	Months	
				Cancel	ОК
					Cancel OK

4. Select Manually set default values or Customize shortcuts to select a date range, and then click OK.



The date currently supports types of month and day for you to customize the date range.

5. Click Search. All the charts that are filtered by the widget are updated.

Filter by text data

When you filter data in text type, you can set the enumeration range as shown in the following figure .

Set Filter _{Dataset} : @company_sal	ies_record_e		×
View Filter Fields * order_level	Label Name: order_level	Set Filter Conditions Filter by Condition Single Select Multip	Set Value Range Filter by Value
			Cancel

- 1. In the Data tab, select the dataset and fields to be filtered, such as the product package.
- 2. Select a chart that needs to be used, and then click Set Enumeration Range.

3. In the Enumeration Range dialog box, enable Set Enumeration Range, click Manually set values or add available values such as middle box, large box, small package, and small box, and then click OK, as shown in the following figure.

View Filter Fields			
	Label Name: product_box		
str. product_box	Current Dataset Another Dataset	Set Filter Conditions	٤
	Current Dataset (Linked: 1, Total: 1) ()	Set Value Range	
	✓ Select All	Search by name.	Adde
	Charts-Line Chart-company_sales_record_en_testL	Huge Box	Med
		Huge Paperbag	Lar
		 Large Box 	Sm
		 Medium Box 	Sm
		Paperbag	
		 Small Box 	
		✓ Small bag	
		Select All	Adde

4. Select Filter by Enumeration and Multiple Select, and then click the drop-down menu. The system automatically adds the available values of this field to the filter bar, as shown in the following figure.

Set Filter _{Dataset} : @company_s	ales_record_e	
View Filter Fields	Label Name: product_box Current Dataset Another Dataset	Set Filter Conditions
	Current Dataset (Linked: 1, Total: 1) ✓ Select All ✓ Charts-Line Chart-company_sales_record_en_testL	Filter by Condition Single Select OMultiple Select Medium Box,Large Box,Small bag,Sma
		Search by name. Add ✓ Medium Box Me ✓ Large Box Lar ✓ Small Bag Small Bay
		Small BOX
		Select All Add
		Add by Select Sequence



Note:

Select Add by Select Sequence to sort and display values by the sequence in which you select the values.

- 5. Manually specify the value or select the available values for the field to be filtered, and then click OK > OK.
- 6. Click Search. The charts that are filtered by the filter bar are updated.

Filter by numeric data

1. On the Data tab page, select a dataset and filter fields. The following example uses order_number.

2. Select charts to be linked. Click OK as shown in the following figure.

Set Filter _{Dataset:} ⊜company_sa	les_record_e		×
View Filter Fields N® order_amt	Label Name: order_amt Current Dataset Another Dataset	Set Filter Conditions	
	Current Dataset (Linked: 0, Total: 1) ① Select All K*Charts-Line Chart-company_sales_record_en_testL	●Or And → → +Add Condition 1/2	
		Cancel	ОК

3. Click Query and charts that are linked by the filter bar update.

3.4.2 Text area

You can use a text area to enter text. For example, you can use this to create the report title.

- 1. Click the Text Area icon, and a text area appears in the dashboard display area.
- 2. Enter text, as shown in the following figure.



3.4.3 IFrame

You can use iFrames to insert required web pages to filter web data and browse web pages related to the current data in real time.

- 1. Click the IFrame icon, and an iFrame appears in the dashboard display area.
- 2. In the URL input box, enter the URL.



You must use an https URL.

3.4.4 Tab

You can use Tab to present charts in the form of multiple tabs.

- 1. Click the Tab icon, and a Tab appears in the dashboard display area.
- 2. In the Tab editing menu, you can add, move, hide, or delete tabs, as shown in the following figure.

Label ^		
	Add Tab Page	
Tab 1		୰ୖଷୖ୲
Title		
Tab 1		
Description		
Tab 2		1 ♥ 1
Title		
Tab 2		
Description		

3. Select a Tab to insert charts. For example, click Tab1, and Tab1 is highlighted with a blue line.

4. Click a chart icon to add a chart, and the selected chart is added to Tab1.

Alternatively, you can choose More > Move to in the upper-right corner to move the existing chart to Tab1, as shown in the following figure.



Move To		×
Container :	TabTest \lor]
Tab :	Select a tab.]
	Tab 1	
	Cancel	ок

5. Follow the procedure to create a chart.

3.4.5 Image

- 1. Click the Image icon, and an image appears in the dashboard display area.
- 2. Enter the URL of the image.

3. Configure the style of the image, as shown in the following figure.



3.5 Create charts

3.5.1 Create a dashboard

This topic describes how to create a chart.

See Dashboard overview and Dashboard basic operations before reading this topic. You must create and edit a dataset before creating a chart. For example, you must switch the dimension field type to Location.

For more information about how to create and edit a dataset, see Create a dataset.

For more information about how to switch the dimension type, see Change the dimension type.

Line charts

#unique_104 display the trends of data at equal intervals or over time.

Area charts

Similar to a line chart, an area chart displays the data trend and proportions.

Stacked area charts

A stacked area chart is an extension of an area chart. The values of each measure are displayed on top of each other. A stacked area chart displays the data trend and proportions.

100% stacked area charts

A 100% stacked area chart is a stacked area chart that shows percentages rather than absolute numbers.

Vertical bar charts

#unique_106 display the differences between data of different categories and the trends of data.

Stacked vertical bar charts

Each bar in a stacked vertical bar chart represents a whole, and segments in the bar represent different parts or categories of that whole.

100% stacked vertical bar charts

Each segment in a bar shows percentages rather than absolute numbers. Each bar in the chart represents a whole, and segments in the bar represent different parts or categories of that whole.

Circular bars

A circular bar chart displays the differences between data of different categories and the trends of data.

Combination charts

A combination chart can display data of different magnitudes by using dual Y-axis.

Horizontal bar charts

Similar to a vertical bar chart, a horizontal bar chart displays the differences between data of different categories.

Stacked horizontal bar charts

Splits each entry to display the data size of each entry of the same type. Each bar in a chart represents a whole, and segments in the bar represent different parts or categories of that whole.

100% stacked horizontal bar charts

Each segment in a bar shows percentages rather than absolute numbers. Each bar in a chart represents a whole, and segments in the bar represent different parts or categories of that whole.

Pie charts

#unique_108 display the size and proportion of each data category.

Bubble maps

#unique_109 display the size and distribution scope of metrics by region or country.

Colored maps

#unique_110 show the size and distribution of data by using shades of color.

LBS bubble maps

#unique_111 use bubbles on a map to reflect the data size.

LBS heat maps

#unique_112 use different colors to show the data values and ranges.

LBS flying line maps

#unique_113 use dynamic flying lines on a map to reflect the data size between two or more locations. It also shows data indicators and the distribution of data for a country or region.

Cross tables

#unique_114 show the aggregated value of a field in the table, including the sum, average, count, maximum, and minimum.

Gauges

#unique_115 show the range of a specific indicator.

Radar charts

#unique_116 show analyzed numbers or ratios.

Scatter charts

#unique_117 show the correlation and distribution of data.

Bubble charts

A bubble chart displays the data distribution and aggregation information by placing proportionally sized bubbles in corresponding locations.

Funnel charts

#unique_118 show values across multiple stages in a process.

Kanbans

#unique_119 show the data changes in each stage.

Treemaps

#unique_120 display hierarchical data as a set of nested rectangles.

Polar diagrams

#unique_121 compare multiple data values.

Word clouds

#unique_122 can be used in user profiles and user labels.

Tornado-leaned funnel charts

#unique_123 compare two objects under different indicators or analyzes a process that has complicated steps.

Hierarchy charts

#unique_124 analyze an organizational structure.

Flow analysis charts

#unique_125 illustrate the conversion rate of a webpage by comparing page views
(PVs) and the number of unique visitors (UVs).

Progress bars

Similar to a gauge, a progress bar shows the progress of completing a task.

Pivot tables

Similar to a cross table, a pivot table shows the aggregated value of a field in the table, including the sum, average, count, maximum, and minimum.

3.5.2 Line charts

This topic describes the overview, examples, and deletion of a line chart.

See Dashboard overview and Dashboard basic operations before reading this topic. To create a dataset, see Create a dataset.

Overview

A line chart presents the changing trend of data through broken lines and shows continuous data that changes over time. Line charts are useful for analyzing and showing data trends at equal intervals. Line charts are also used for analyzing the interactions among multiple groups of data that change over time. For example, analyzing the sales volume of a certain product or related products to predict future sales.

A line chart is based on the category axis and the value axis. The category axis is the horizontal axis. The categories must be dimensions such as dates, provinces, and product types. The value axis is the vertical axis. The values must be measures such as performance indicators and order numbers.

Dimensions and measures are automatically used for the category axis and the value axis respectively in the dashboards. You only need to select fields from the Dimensions and Measures lists.





Notes

You need to select at least one dimension for the category axis and at least one measure for the value axis. The color legend supports up to one dimension.

Note:

You can enable the color legend only when the value axis involves one measure.

Examples

Scenario: displays order numbers and unit prices of multiple products. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
3. Click the Create Dashboard icon for the company_sales_record dataset.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the Line Chart icon and an empty line chart appears on the dashboard.
- 5. Select dimensions and measures.

On the Dimensions list, locate the product_type field and add it to the Category Axis (Dimensions) section. On the Measures list, locate the order_number and price fields and add them to the Value Axis (Measures) section respectively.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.

Data	Sty
Value Axis (Measure	s)
№ Imorder_amt	⇒×
Category Axis (Dime	ensions)
🛗 report_date(year) ⊜×
Str.product_type	⇔×
o province	⇒×

6. On the Style tab page, you can configure the basic information, chart type, axes, functionality, and series settings.

Graphic Design	*	Change Chart Type 🕶
Data	Style	Advanced
Basic Settings \vee		
Style 🗸		
Layout 🗸		
Axes 🗸		
Series Settings \vee		

7. Click Save to save the dashboard.

Configure the style

 In the Basic Settings section, you can configure the chart title, enable the hyperlink for page jumping, change the chart background color, and switch the chart type. This example uses Dark as the background theme.



To configure a hyperlink used to jump to a report or an external page, select Show Hyperlink and enter a name and address.

• In the Chart Type section, you can configure whether to show labels, line style, the position of legend, and whether to display dual Y-axis. This example uses Dual Y-Axis and shows labels.

Note:

Select Show Labels to show all measure labels. Labels support Smart Display and Full Display. Assume that a chart involves many dimension values and the scroll bar is not shown in the chart. In Smart Display mode, only partial labels are displayed. In Full Display mode, all labels are displayed.

- You can set the titles and units for the axes. This example uses Product Type as the title for the horizontal axis.
- In the Functionality section, you can configure whether to show a scroll bar.

• In the Series Settings section, you can set measure aliases, the axis style, boundary values, and the data display format. This example uses blue as the line color for the price measure.

Click Update and the updated chart is shown as follows.



For more information about Style, see Configure a chart.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.3 Area charts

This topic describes the overview, examples, and deletion of an area chart.

See Dashboard overview and Dashboard basic operations before reading this topic. To create a dataset, see Create a dataset.

Overview

Similar to a line chart, an area chart displays the data trend and proportions.

An area chart consists of the category axis and the value axis. The category axis is the horizontal axis. The categories must be dimensions such as dates, provinces, and product types. The value axis is the vertical axis. The values must be measures such as performance indicators and order numbers.

Dimensions and measures are automatically used for the category axis and the value axis respectively in the dashboards. You only need to select fields from the Dimensions and Measures lists.

Samples



Notes

You can set at least one dimension for the category axis, and set at least one measure for the value axis. The Colors field can take only one dimension.

Note:

You can enable the color legend only when the value axis involves one measure.

Examples

Scenario: visualizes the number of orders for each product type of each province. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Click the Create Dashboard icon for the company_sales_record dataset.



If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

4. Click the Area Chart icon and an area chart appears on the dashboard.

5. Select dimensions and measures.

On the Dimensions list, drag the province and product_type fields to the Category Axis (Dimensions) section respectively. On the Measures list, drag the order_amt field to the Value Axis (Measures) section as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see <u>Change the dimension type</u>.



6. Drag the product_type field to the Colors (Dimensions) area and click Update.



You can enable the color legend only when the value axis involves one measure.

7. On the Style tab page, you can configure the basic information, chart type, axes, functionality, and series settings.



8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background theme.



- In the Basic Information section, you can configure the chart type, such as line chart, stacked area chart, and 100% stacked area chart.
- To configure a hyperlink used to jump to a report or an external page, select Show Hyperlink and enter a name and address.
- In the Chart Type section, you can configure whether to show labels, the position of legend, whether to display dual Y-axis, and whether to switch to a stacked area chart or a 100% stacked area chart. This example uses 100% Stacked.

Note:

Select Show Labels to show all measure labels. Labels support Smart Display and Full Display. Assume that a chart involves many dimension values and the scroll bar is not shown in the chart. In Smart Display mode, only partial labels are displayed. In Full Display mode, all labels are displayed.

- In the axis, you can set the title and unit of the Axis. In this example, set the title of the horizontal axis to Province.
- In the Functionality section, you can configure whether to show a scroll bar.
- In the Series Settings section, you can set measure aliases, the axis style, boundary values, and the data display format. In Series settings, change the color of the Office field to orange.



Click Update and the updated chart is shown as follows.



Note:

For more information about Style, see Configure a chart.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.4 Vertical bar charts

This topic describes the overview, examples, and deletion of a vertical bar chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A vertical bar chart shows comparisons among discrete categories. You can use a vertical bar chart to visualize data changes over a period of time or comparisons among discrete categories. For example, you can show the comparison of the traffic flow of vehicles over different periods of time at a crossing.

Similar to a line chart, a vertical bar chart is based on the category axis and value axis.

Samples



Notes

You can set at least one dimension for the category axis such as province and product_type. In addition, you can set at least one measure for the value axis such as order_amt and profit_amt. The Color Legend (Dimensions) section can take only one dimension.



Note:

You can enable the color legend only when the value axis involves one measure.

Examples

Scenario: compares the shipping cost for different products of provinces of East China. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.

Note:

If you use Quick BI Enterprise Standard, you need to choose Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the Vertical Bar Chart icon and an empty chart appears on the dashboard.
- 5. On the Dimensions list, locate the area field and add it to the Filters section.

East China is filtered by using the area filter as shown in the following figure.



6. Click the Filter icon and select Filter by Value in the dialog box that appears as shown in the following figure.



- 7. Select East China and click OK.
- 8. Drag province and product_type to the Category Axis (Dimensions) area in turn.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.

9. On the Measures list, drag shipping_cost to the Value Axis (Measures) area.

10.Drag product_type to the Colors (Dimensions) area.

Note:

You can enable the color legend only when the value axis involves one measure.

11.Click Update to update the chart.

12.On the Style tab page, you can configure the basic information, chart type, axes,

functionality, and series settings.

13.Click Save to save the dashboard.

Configure the style



For more information about Style, see Configure a chart.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.5 Combination charts

Combination charts are a new chart type that is used for combining basic charts. This topic describes how to use a combination chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A combination chart displays data of different magnitudes by using dual y-axis. Multiple chart types (line chart, vertical bar chart, and area chart) and stack modes (stacked and 100% stacked) can be displayed within a combination chart.

A combination chart is based on the category axis, primary value axis, and secondary value axis.

Samples



Notes

You can select a minimum of one dimension, such as report date (year), for the category axis. You can select a minimum of one measure, such as order_amt and profit_amt, for the primary value axis and secondary value axis. You can select a maximum of one dimension for the color legend.



You can enable the color legend only when the value axis involves one measure.

Scenario: compares the order amounts and profit amounts over multiple years.

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.

Note:

If you use Quick BI Enterprise Standard, you need to choose Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the Combination Chart icon and an empty chart appears on the dashboard.
- 5. On the Dimensions list, locate the report_date (year) field and add it to the Category Axis (Dimensions) section.
- 6. On the Measures list, locate the order_amt and profit_amt fields and add them to the Primary Measures and Secondary Measures sections respectively.



You can select vertical bar chart, line chart, or area chart as the chart type for the primary value axis or secondary value axis by clicking the chart type icon.



You can select the stack mode by clicking the stack mode icon.

Primary Measures	Standard	company
Nº 📶 💷 order_amt	Standard	ł
[Stack	ed
Secondary Measures	100%	Stacked
🗤 🕍 💷 profit_amt	≑x	

- 7. Click Update and the chart is updated.
- 8. On the Style tab page, you can configure the basic information, chart type, axes, functionality, and series settings.
- 9. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.

Note:

To jump to a report or an external page, select Show Hyperlink and enter a name and address.

• In the Chart Type section, you can configure the labels, chart direction, line style, and legend position.

Note:

Select Show Labels to show all measure labels. Labels support Smart Display and Full Display modes. Assume that a chart involves many dimension values and the scroll bar is not shown in the chart. In the Smart Display mode, only partial labels are displayed. In Full Display mode, all labels are displayed.

- In the Axes section, you can configure axis titles and units. In this example, Show Scale is selected for the x-axis.
- In the Functionality section, you can configure whether to show the scroll bar.
- In the Series Settings section, you can set measures' aliases, boundary values, and data display formats.

Click Update and the updated chart is shown as follows.

Note:

For more information about Style, see Configure a chart.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.6 Horizontal bar charts

This topic describes the overview, examples, and deletion of a horizontal bar chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

- A horizontal bar chart shows comparisons between categories. You can use a horizontal bar chart to visualize data changes over a period of time or comparisons between categories. For example, you can show the working progress of employees in a project group.
- Similar to a line chart, a horizontal bar chart is based on the category axis and the value axis.

Samples



Notes

You can set a minimum of one dimension for the category axis such as province and product_type. In addition, you can set at least one measure for the value axis such as order_amt and profit_amt. The Color Legend (Dimensions) section can take only one dimension.

Note:

You can add dimensions to the Color Legend (Dimensions) section when only one measure is added to the Value Axis (Measures) area. Otherwise, you are not allowed to add dimensions to the Color Legend (Dimensions) section.

Examples

Scenario: compares the shipping costs of products in multiple cities.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.

Note:

If you use Quick BI Enterprise Standard, you need to choose Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

4. Click the Horizontal Bar Chart icon and an empty chart appears on the dashboard.

5. On the Dimensions list, locate the city field and add it to the Filters section.

Municipalities are filtered from cities by using the filter as shown in the following figure.



- 6. Click the Filter icon and select Filter by Value in the dialog box that appears.
- 7. Select four municipalities from the list or enter four municipality names manually and click OK as shown in the following figure.

Set Filter Conditions	🖒 Set Value Range		
Filter by Condition	Filter by Value 🛛 🦽		
Single Select Multiple	Select		
L1,L3	*		
Search by name.	Added Items: 2 🖉 Specify		
✓ L1	L1		
L2	L3		
✓ L3			
Others			
Select All	Added Items: 2		
Add by Select Sequence	ОК		

8. Add the city and product_type fields to the Category Axis (Dimensions) section in sequence.



- 9. On the Measures list, locate the shipping_cost field and add it to the Value Axis (Measures) section.
- 10.Add the product_type field to the Color Legend (Dimensions) section.



You can add dimensions to the Color Legend (Dimensions) section when only one measure is added to the Value Axis (Measures) section. Otherwise, you are not allowed to add dimensions to the Color Legend (Dimensions) section.

- 11.Click Update and the chart is updated.
- 12.On the Style tab page, you can configure the basic information, chart type, axes, functionality, and series settings.

Graphic Design	÷	Change chart type 👻
Data	Style	Advanced
General config 🗸		
styleƳ		
Layout 🗸		
Axis 🗸		
Series settings 🗸		

13.Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



- To jump to a report or an external page, select Show Hyperlink and enter a name and address.
- In the Basic Information section, you can change the chart type to a stacked horizontal bar chart or 100% stacked horizontal bar chart.
- In the Chart Type section, you can configure labels, alignment, legend position, dual y-axis, and chart type (stacked horizontal bar chart and 100% stacked horizontal bar chart). This example uses Stacked.
- In the Axes section, you can configure axis titles and units. This example uses Show Scale for the bottom axis.

- In the Functionality section, you can configure whether to show a scroll bar and the display mode.
- In the Series Settings section, you can set measures' aliases, boundary values, and data display formats.

Click Update and the chart is updated.



Note:

For more information about Style, see Configure a chart.

Delete a chart

To delete a chart, move the pointer over the upper-right corner of a chart, click the More Actions icon that appears, and select Delete from the drop-down list.

3.5.7 Pie charts

This topic describes the overview, examples, and deletion of a pie chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A pie chart displays a data series. Each data series has a unique color or texture. Pie charts show data distribution and proportions. For example, you can use a pie chart to show the proportion of five social insurances and one housing fund in a person's income. You can also use a pie chart to show the sales proportion of an auto brand in total sales of all brands. A pie chart consists of slices. The label of a sector is determined by a dimension such as the area field and the product_type field. The degree of an angle is determined by a measure such as order_amt and profit_amt.

Samples



Notes

You can set at least one dimension such as area and product_type. In addition, you can set at least one measure for the Arc Angle (Measures) area such as order_amt and profit_amt.

Examples

Scenario: compares shipping costs for multiple areas. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.



If you use Quick BI Enterprise Standard, you need to choose Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

4. Click the Pie Chart icon and an empty chart appears on the dashboard.

5. On the Data tab page, select dimensions and measures.

On the Dimensions list, locate the area field and add it to the Labels (Dimensions) section. On the Measures list, locate the shipping_cost field and add it to the Central Angle (Measures) section as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the area dimension. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, legend, display mode, radius, and aliases of dimension's values.

Graphic Design	٩	Change Chart Type 🕶
Data	Style	Advanced
Basic Settings \vee		
Layout 🗸		
Measures V		
Series Settings \smallsetminus		

8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, font color, hyperlink, and background color. This example uses Dark as the background color.



To jump to a report or an external page, select Show Hyperlink and enter a name and address.

- In the Layout section, you can configure the legend, display mode, label style, leaders, and radius. This example uses Name, Value (Percentage) as the label style and uses Top as the legend position.
- In the Measures section, you can configure the unit and number of decimal places. This example uses 2 as the number of decimal places.
- In the Series Settings section, you can configure aliases for dimension's values and colors for corresponding slices. In this example, the color for Northeast is set to grey.

Click Update and the updated chart is shown as follows.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.8 Bubble maps

This topic describes the overview, examples, and deletion of a bubble map.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A bubble map displays data by using a map with bubbles of different sizes. You can view the values and distribution of data based on a country or a region. For example , you can use a bubble map to display tourist traffic of multiple tourist attractions or the average income in multiple regions.

A bubble map is based on geographic locations and bubble sizes. Geographic locations are based on dimensions such as provinces. Color scales are based on measures such as order amounts and profit amounts.



Samples

Notes

You can select a maximum of one dimension for geographic locations. The dimension type is required to be Geo. You need to select a minimum of one and a maximum of five measures for bubble sizes.

Examples

Scenario: compares the order numbers and profit amounts in multiple provinces. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to Datasets page.
- 3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.



If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard as the display mode.

- 4. Click the Bubble Map icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select a dimension and measures.

On the Dimensions list, locate the province field and add it to the Geo Location (Dimensions) section. On the Measures list, locate the order_number and profit_amt fields and add them to the Bubble Size (Measures) section respectively.



Make sure that you have converted the dimension type from String to Geo for the province field. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, legend, and value ranges.



8. Click Save to save the dashboard.

Configure the style

- In the Basic Information section, you can configure the title, font color, and background color. This example uses Dark as the background color.
- In the Layout section, you can configure the legend position and whether to show tooltips. This example uses Show Geo Names.
- In the Series Settings section, you can configure value ranges and the number of decimal places.

Click Update and the chart is updated.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.9 Colored maps

This topic describes the overview, examples, and deletion of a colored map.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

Similar to a **Bubble map**, a colored map shows the size and distribution of data by using shades of color.

A colored map consists of color scales and geographic locations. Geographic locations are based on dimensions such as provinces. Color scales are based on measures such as order amounts and profit amounts.

Samples



Notes

You can select a maximum of one dimension for geographic locations. The dimension type is required to be Geo. You need to select a minimum of one and a maximum of five measures for color scales.

Examples

Scenarios: compares the shipping costs, order amounts, and profit amounts in multiple areas. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.

3. Click the Create Dashboard icon on the right side of the company_sales_record dataset.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

- 4. Click the Colored Map icon and an empty chart appears.
- 5. On the Data tab page, select dimensions and measures.

In the Dimensions list, select area and add it to Geo Location (Dimensions). In the Measures list, select order_amt, profit_amt, and shipping_cost, and add them to Colorscale (Measures), as shown in the following figure:



Make sure that you have converted the dimension type from String to Geo for the area dimension. For more information, see Change the dimension type.



6. Click Update and the chart is updated.

7. On the Style tab page, you can configure the chart title, legend, and value-based colors.

Se	Series Settings ^				
	order_amt		~		
	Alias				
	order_amt				
D	ata display format setting				
	AutoFit Custom	🔘 Manual			
	EN				
Se	et Value Ranges				
V	alue Ranges 🕐				
	5				
C	olors:				
	474231.67	1297485.4328			
	1297485.4328	2120739.1956	-		
	2120739.1956	2943992.9584	-		
	2943992.9584	3767246.7212	-		
	3767246.7212	4590500.484	-		
			Update		

8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



To jump to a report or an external page, select Show Hyperlink and enter a name and address.

- In the Layout section, you can configure the legend position, whether to show tooltips, and whether to show geo names. This example uses Top as the legend position shows geo names.
- In the Series Settings section, you can configure measures' aliases, data display formats, and value ranges.



Click Update and the updated chart is shown as follows.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.10 Cross tables

This topic describes the overview, examples, and deletion of a cross table.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A cross table displays aggregates and sub-aggregates of columns and groups columns

. Aggregates include sums, averages, maximums, and minimums.

A crosstab consists of rows and columns. Rows are horizontal and based on dimensions such as provinces and product types. Columns are vertical and based on measures such as order numbers and profit amounts.

Samples

Cross Table					
product_type	product_box	area	shipping_cost	order_amt	profit_amt
Furniture	Huge Box	Center	1240.48	135287.4425	4807.4699999999
Furniture	Huge Box	East	2825.070000000006	294315.99250000	18386.880000000
Furniture	Huge Box	North	1770.870000000003	181526.43	14549.210000000
Furniture	Huge Box	Northeast	1751.330000000004	182986.12999999	3689.9099999999
Furniture	Huge Box	Northwest	631.12999999999999	52887.67	165.66000000000
Furniture	Huge Box	South	2769.3099999999995	283655.38	17881.559999999
Furniture	Huge Box	Southwest	463.54	41517.729999999	845.58000000000
Furniture	Huge Paperbag	Center	2240.62999999999997	208515.22000000	-14159.00000000

Notes

For each crosstab, the numbers of dimensions and measures are unlimited.

Examples

Scenario: Compare multiple types of products with different package designs, transportation costs, order quantities, and profit amounts across multiple provinces The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

- 4. Click the Cross Table icon and an empty chart appears.
- 5. On the Data tab page, select dimensions and measures.

In the Dimensions list, select province, product_type, and product_box, and add them sequentially to Rows (Dimensions), select order_number, shipping_cost, and profit_amt, and add them sequentially to Values (Measures), as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the chart title, layout, format, and rules.



8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title and hyperlinks for page jumping as shown in the following figure.

							Data	Style	Advanced
Cross Table-	undefined				Alibaba C	Cloud	Basic Settings ^		
province	product_type	product_box	order_number	shipping_cost	profit_amt	2.01			
Anhui	Furniture	Huge Box	48	48.8	3799.59		Show Title		
Anhui	Furniture	Huge Paperbag	45	89.3	-3033.57				
Anhui	Furniture	Paperbag	96	8.76	956.73	2 003	Cross Table-unde	efined	
Anhui	Office	Medium Box	185	54.199999999999999	80.92999999999		Description		
Anhui	Office	Paperbag	241	73.11999999999998	719.2300000000		Description		
Anhui	Office	Small Box	733	289.6899999999999	262.7199999999	2 003			
Anhui	Technique	Large Box	27	26.47999999999999	6027.01		V Show Hyperlink		
Anhui	Technique	Medium Box	25	13.99	667.33	~	Hyperlink Name	Alibaba Cloud 🛈	
102002	534°					0003	URL https://ww	w.alibabacloud.com/	



For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

• In the Display Settings section, you can configure the table theme, choose whether to show row numbers and whether to merge duplicate cells, configure freezing rules, and set pagination. The updated chart is shown as follows.

Cross	Table-undefined					Alibaba Cloud	Basic Settings ~
	province	product_type	product_box	order_number	shipping_cost	profit_amt	
1	Anhui	Furniture	Huge Box	48	48.8	1 3799.59	Display Settings A
2	Anhui	Furniture	Huge Paperbag	45	89.3	-3033.57	Thomas
3	Anhui	Furniture	Paperbag	96	8.76	1 956.73	Default Simple
4	Anhui	Office	Medium Box	185	54.19999999999999	80.92999	
5	Anhui	Office	Paperbag	241	73.11999999999998	119.2300	Show Row Numbers
6	Anhui	Office	Small Box	733	289.6899999999999	1 262.7199 2 003	Merge Same Cells
265	Total			41556	20566.549999999	318852. 🧅	🔽 Freeze
< (- 612 M		- 223 M			>	Auto (Table Head)
	210015321			Of Cr.	0153724	102002	Columns From Firs



Note:

Pagination is disabled if you select Merge Same Cells.

• In the Functionality Settings section, you can configure conditional formatting rules and aggregate rules. Conditional formats include Icons and Data bars.

Icon

1. Select a field and select Icon as the format.



2. Select an icon theme from the Theme drop-down list.

Format					
🛃 Icon 💠		ata Ba	ar 🗲		
Theme		•			^
🔶 🗡 M	•	•	÷		
→ ∨ w	•	-	•		
🔶 🗸 v		•	•		
	-		_	•	

3. You can specify the rules for data that needs to be marked out and click the downward arrow button to specify the style of the data.

Conditional Formatting					
Series	profit_amt	∻ ~			
Format					
🔽 Icon 💠	🗌 Data Bar 🗲				
Theme	▲ → → ✓				
▲ ▼	Whene ≥∨ 6000	• •			
	Whene ≥ ∨ 50000	• •			
• •	Whene 👻 🗖 👻				

Take the profit_amt column as an example. The following rules are set for different data values. The updated table is shown in the following figure:

- If values are greater than or equal to 1000, their cells are highlighted in red and a green up arrow appears next to each value.
- When the data value is between 500 and 1000, the background color of the cell containing the data is set to orange and an orange horizontal line appears next to the data.
- If values are less than 500, their cells are highlighted in green and a red down arrow appears next to each value.

Cross Table			
shipping_type	area		profit_amt
Truck	Center	1	
Truck	East	ſ	36676
Truck	North	企	
Truck	Northeast	<u>۲</u>	50445
Truck	Northwest	1	38772
Truck	South	Ŷ	94528
Truck	Southwest	1	6691.6
Iruck	Southwest	Ъ.	6691.

Data bar

- 1. Select a field and select Data Bar as the format.
- 2. Set the upper limit, lower limit, and fill color.



Cross Table					Functionality Setti	ngs ^	
shipping_type	area		profit_amt	14 S ^{L®}	0 57 15		
Plain	Center	1	6009.05999999999		Conditional Form	atting	
Plain	East	Û	34687.1300000002		Series	profit_amt	* E ~
Plain	North	ſ	28780.8199999999	, s.C	Format		
Plain	Northeast	<u>۲</u>	36269.939999999995			- - - -	
Plain	Northwest	ſ	15164.48000000003		🗹 Icon 🍄	🖌 Data Bar 🗲	
Plain	South	<u>۲</u>	33222.79999999999	, <u>3</u> .0	Upper Lim	it 🗌 Auto	60000
Plain	Southwest	企	6703.70000000001				
Train	Center	介	101681.000000001	~	Lower Limi	t 🗌 Auto	500
					Color	Por 📃 🔻	Neg

Upper and lower limits can be set automatically or manually.

Sort columns

You can sort columns and group columns. When grouping columns, you need to set group names as shown in the following

figure.

10.					0		
	Display column settings	×	20 Alib	aba Cloud	Conditio		ing
			t	price	shi	ipping cost	
	str. province		56.1	936.5		Fnable Condi	itional For
	-		9.24 1.27	273.2			
	^{str.} area		9.76	19.2			
	str.city		75.2	4433.:	Effe		
	N°Morder pumber		0.16	1593.			
	" """"""""""""""""""""""""""""""""""""		.99	7573i		ie< 1000 and	
	^{N®} ∭order_amt		20 ⁸		Effe		
	№ III profit_amt						
						ie< 500	
	^{№2} shipping_cost						
	NºⅢprice				Display		nas
					Sho	w overall col	umn total
							oottom
	Cancel	保存				d settings	

Cross	Table			53210				Alibaba Clou	 0
	area	city	province	shipping_cost	order_amt	profit_amt	rder_numb€	price	ê
1	Center	Anyan	Henan	448.92	65645.67000	9455.500000	997	3719.159	
2	Center	Chang	Hunan	4 9.990000000000000000000000000000000000	1672.03	405.2800000	74	72.25999	
3	Center	Chang	Hunan	↓ 253.37	27704.7765	2379.25	479	1244.44(
4	Center	Ezhou	Hubei	4 74.13000000000000000000000000000000000000	45247.662	-6348.26000	734	2897.6	
5	Center	Hebi	Henan	63.33	6436.639999	-362.81	162	145.44	
6	Center	Hengy	Hunan	↓ 75.96	4454.299	62.76999999	164	282.19	
7	Center	Huang	Hubei	1 407.08000000000	153560.095	4362.979999	2462	9315.979	
248	Total			110332.98999999	15154620.2	1549090.02	218871	757304	~ 0

Show totals

By using the Show Totals feature, you can configure aggregates, sub-aggregates, and aggregation functions such as SUM, AVG, and MAX. You can also create an expression on which to perform the aggregation as shown in the following figure.



Note:

Before configuring sub-aggregates, you need to select Merge Same Cells in the Display Settings section.

						Data	Style		Advance	ed
Table-c	ompany_sales_record				Alibaba Cloud	表俗王题	納斯			
	area	city	province	order_amt	order_number		IQ/IIX			
40			Fujian	19993.18	380	Show Row Numb	ers			
41		Fuzhou	Jiangxi	1823.799999999999	142	🔽 Merging similar o	lls			
42			Subtotal	21816.979999999	522	🔽 freeze				
43		Ganzhou	Jiangxi	2668.76	48	🔘 Smart (heade				
44		Hangzhou	Zhejiang	58110.2800000000	692	Column firs	trow To 0	with Fror	m the	
45		Hefei	Anhui	15604.67100000000	401	back To 0				
6 46		Heze	Shandong	26791.553	222					
258	Total			15154620.256000	218871	□ 显示分页 20 ∨				
	anglizhe		7.2000 2000	wang12	Wangli Av					
						Functional configuration	n ^			
						Conditional Formattin				
						shipping_cost				
						Enable Condit	onal Format			
						Display column settin	gs			e
						Show overall colu	mn total			
						Fixed at the book	ttom			
						Field settings o	der_number		SUM	
						Show overall c				

• In the Series Settings section, you can configure field names, alignment, and the number format.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.11 Pivot charts

This topic describes the overview, examples, and deletion of a pivot chart.



Pivot tables only apply to Quick BI Enterprise Standard.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

A pivot table can be used to display the aggregates of variables and allows you to drill into data in a tree structure. One variable defines the values in the header row while the other variable defines the values in the header column. Aggregates include sums, averages, maximums, and minimums.

Similar to a cross table, a pivot table consists of rows and columns. Rows are horizontal and based on dimensions such as provinces and product types. Columns are vertical and based on measures such as order numbers and profit amounts.

Samples

. 403-27	- v0752	
order_id	order_number	
1000015		6.0
1000030		2.0
1000160		88.0
1000175		44.0
1000180		46.0
1000325		32.0
1000330		41.0
1000345		70.0
1000350		94.0
1000480		37.0

Pivot Table-company_sales_record_en_0508

Notes

For each pivot table, the number of dimensions and measures is unlimited.
Examples

Scenario: compares multiple types of products with different package designs, order quantities, and order amounts across multiple provinces. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard as the display mode.

- 4. Click the Pivot Table icon and the corresponding legend is displayed.
- 5. Click the Data tab to select data dimensions and data measures.

In the Dimensions list, select province, product_type, and product_box, and add them sequentially to Rows (Dimensions), select order_number and order_amt, and add them sequentially to Values (Measures), as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see <u>Change the dimension type</u>.



6. Click Update and the chart is updated.

7. On the Style tab page, you can configure the basic information, chart type, axes, functionality, and series settings.

Data	Style	Advanced
Basic Information \vee		
Display Settings \vee		
Functionality Settings	~	
Series Settings 🗸		

8. Click the Plus (+) sign in front of the value to drill into the data in a tree structure.

For example, when you click the plus sign in front of Shanghai, data about product types and product boxes is displayed in a tree structure.

F	Pivot	Table Test			
		province	order_number		order_amt
100-	23	- 山高	Pres.	17312.0	Les.
-	24		BTo.	2554.0	
-	25	53	anivun.co-	5571.0	and WIR.Com
	26	Xicang	wildo-tester	556.0	
10-	27	Furniture	- tes	108.0	
	28	Office	(Tree	308.0	
	29	🛨 Technique		140.0	
	30	- PE	LW30-tes	2433.0	1. N 80 - 10 0
10-	31	日 長海	Lou.	680.0	
	32	1 M I		19672.0	
		at@aliyun.com			

9. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title and hyperlink of a chart.



For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

- In the Display Settings section, you can configure whether to show row numbers, to freeze columns, and to enable word wrap. This example shows row numbers.
- In the Functionality Settings section, you can configure conditional formats and whether to show aggregates. See Functionality settings. This example displays conditional formats and aggregates.
- In the Series Settings section, you can configure the names of series, alignment, and number formats.

The updated chart is shown as follows.

Pivot	Table			
11	province	order_number	order_amt	14.5
19	Ningxia	4752	343454.94699999987	
20	🖶 Qinghai	542	40510.3850000001	
21	Shandong	3640	270684.1460000007	
22	🖶 Shanghai	1030	61532.68900000006	
23	Shanxi	17312	1185756.103500001	
24	Sichuan	2554	192281.8115000001	, s
25	🖬 Tianjin	5571	367681.9585000001	
26	🖬 Xicang	556	36392.48450000006	~

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.12 Gauges

This topic describes the overview, examples, and deletion of a gauge.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For creating a dataset, see Create a dataset.

Overview

Similar to a dashboard on a car, a gauge shows the range of a specific indicator. You can view the progress of the current task or if a metric will exceed its range. For example, you can use a gauge to show the inventory status of a category of items, whether it is sufficient or needs to be replenished.

The pointer angle of a gauge is determined by the measure, such as the discount and profit amount.

Notes

You can select up to one measure for the pointer angle.

Samples



Examples

Scenario: Uses a gauge to display the order amount. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

4. Click the Gauge icon and an empty chart appears.

5. On the Data page, select a measure.

In the Measures list, select order_amt and add it to Pointer Angle (Measures), as shown in the following figure.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, whether to show the legend, and whether to show tick marks.



8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background.



For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

- In the Layout section, you can configure whether to show tooltips, tick marks, and the legend.
- In the Value Ranges section, you can set value ranges and the corresponding colors
 This example uses 100 as the start value and 1000 as the end value of a range. The title of the range is named "net profit".
- In the Series Setting section, you can configure the alias of the measure and number of decimal places that each value shows.

The updated chart is shown as follows.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.13 Radar charts

This topic describes the overview, examples, and deletion of a radar chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

Radar charts display numbers and ratios obtained from data analysis. You can view the changing trends of indicators by using radar charts. For example, sales of all areas are represented by numbers and ratios in radar charts.

A radar chart is based on labels and lengths. Labels are based on dimensions such as product types. Lengths are based on measures such as shipping costs.

Notes

You can select a minimum of one and a maximum of two dimensions for the labels of a radar chart. The number of dimension values must be greater than or equal to three and less than or equal to 12. You need to select a minimum of one dimension for the length.

Samples



Examples

The following example uses the company_sales_record dataset.

1. Log on to the Quick BI console.

- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click the Create Dashboard icon in the Actions column.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

- 4. Click the Radar Chart icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select dimensions and measures.

In the Dimensions list, locate the area field and add it to Labels (Dimensions). In the Measures list, locate the order_number and order_amt fields and add them sequentially to Length (Measures).

Note:

Make sure that you have converted the dimension type of the area field from String to Geo.



6. Click Update and the chart is updated.

7. On the Style tab page, you can configure the title name, layout, and legend.

Data	Style	Advanced
Basic Settings \vee		
Layout 🗸		
Series Settings ^		
Amount		~
Alias		
Amount		
AutoFit Mode		
Custom		~
0.##		

8. Click Save to save the dashboard.

Configure the style

 In the Basic Information section, you can configure the title name, hyperlink, and background color. This example uses Domestic data as the title name and uses Dark as the background color.

Note:

For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

- In the Layout section, you can configure the legend position and whether to show tooltips, areas, and labels.
- In the Series Settings section, you can configure aliases for dimensions, data formats, and numbers of decimal places. This example uses red as the line color for the order_number field.

Click Update and the chart is updated as shown in the following figure.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.14 Scatter charts

This topic describes how to create a scatter chart. Make sure that you have read #unique_72 and #unique_69. For creating a dataset, see #unique_76.

Overview

Scatter charts present the distribution and aggregation of data.

A scatter chart is composed of the X-axis and Y-axis. The color legend is based on the data dimension such as the product type. The scales of the X-axis and Y-axis are based on the data measures.

Examples



Notes

You can select a maximum of one dimension for the color legend. You can set a maximum of 1,000 dimension values.

X-axis: supports a minimum of one and a maximum of three dimensions.

Y-axis: supports one measure.

Scenarios: unit prices and order numbers of multiple product types

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click the Create Dashboard icon in the Actions column.

Note:

If you use Quick BI Enterprise Standard, you need to choose Standard or Full Screen as the display mode manually. The following example uses Standard.

- 4. Click the Scatter Chart icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select dimensions and measures.

In the Dimensions list, locate the product_type field and add it to the Color Legend (Dimensions) section. In the Measures list, locate the price and order_number

fields and add them to the X Axis (Measures) and Y Axis (Measures) sections separately.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can modify the chart name, layout, and legend as shown in the following figure.

Data	Style	Advanced
Title ^		
Show Title	mpany_sales_record_en_0	423
Design ^		
🗌 Axis Title		
Layout ^		
Show Legend		

8. Click Save to save the dashboard.

Configure the style

• In the Title section, you can configure the title.

- In the Design section, you can choose whether to show axis titles. This example shows the axis titles.
- In the Layout section, you can set the legend position and choose whether to show tooltips.

The updated chart is as follows.

Scat	ter Chart-co	mpany_sales_r	record_en_0423	3 53210
	product_type	e 🖉 Furniture	🖉 Office	Technique
pr.	56.65K			
e S	45.32K			
	33.99K	•		
	22.66K			
	11.33K			
	032			
	32.50	0 4534 9	068 13.60K 1	8.14K 22.67K
	I	ord	ler_number 🔗	

Delete a chart

Click the More Actions icon in the upper-right corner of the chart and select Delete from the drop-down list to delete a chart.

3.5.15 Bubble charts

This topic provides you with an overview and applicable scenarios for bubble charts. You will also learn how to delete bubble charts.

Before reading this topic, you can familiarize yourself with the **#unique_72** and **#unique_69** topics. If you want to edit a dataset or create a new dataset, see **#unique_76**.

Overview

Bubble charts visualize the distribution and aggregation of data based on bubble locations and sizes.

Each bubble chart has an X-axis and Y-axis. The X-axis is based on a dimension, such as province. The Y-axis and bubble size are each based on a measure such as order_amt.

Sample bubble chart



Precautions

X Axis (Dimensions): represents only one dimension.

Y Axis (Measures): represents only one measure.

Bubble Size (Measures): represents only one measure.

Create a bubble chart

Sample scenario: compares the unit prices and the order quantities of different products. The following example is based on the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to open the Datasets page.
- 3. Locate the company_sales_record dataset and click Create Dashboard next to the dataset.

Note:

If you are using Quick BI Enterprise Standard, you need to select Standard or Full Screen to as the display mode. The following takes the Standard mode as an example.

- 4. Click the Bubble Chart icon to add a bubble chart to the dashboard.
- 5. On the Data tab, select the required dimension and measures.

On the list of dimensions, locate the product_type dimension and add the dimension to the X Axis (Dimensions) field. On the list of measures, locate the

price measure and add it to the Y Axis (Measures) field, and then locate the order_number measure and add it to the Bubble Size field.

Data	Sty	/le	Advanced		
Data Source Type:		Dataset		D	
X Axis (Dimensions)		company_sale	es_record ∨	Ø	
Str. product_type	≑¶×			ڻ_	
Y Axis (Measures)		Dimensions - Str. produc	t_type		
№ 📰 price	⇔×	str. produc	:t_sub_type		
Bubble Size (Measures)		Measures	-		
Ne 🖬 order_number	⇔x	Nº orde Nº orde	r_number r_amt		

- 6. Click Update to update the chart.
- 7. In the Style tab, you can change the title, layout, and legend of the chart as shown in the following figure.

				Data	Style	Advanced
Bubble Cha	ut - 1			Basic Information ^		
TON SO . 2000						
50000			LIVUR.CO	Show little	1	
40000	•			Bubble Chart -	1	
				Description		
- 300-				Description		
10180 20000				Show Hyperlink		
10000				Hyperlink Name		
test 0 aliv		- un rai o testi	Balinan	Link Address		
FRA.	Furniture	Office	Technique	Background		
Vilso	UR.COR	der_number		Light		~
				Layout ^		
				Show Legend		
				Show Tooltip		

8. Click Save to save the dashboard.

Configure settings on the Style tab

- In the Basic Information section, you can configure the title of a chart.
- In the Layout section, you can select where to show a legend and whether to show a tooltip.

Click Update after you complete configurations. A sample bubble chart is shown as follows.



Delete a chart

If you want to delete a chart, click the More icon in the upper-right corner of the chart and select Delete from the drop-down list.

3.5.16 Funnel charts

This topic describes the overview, examples, and deletion of a funnel chart.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

Funnel charts are suitable for analyzing business processes that involve a sequence of activities and span over a long period. By comparing the business data during different stages, you can easily identify potential problems in the business process . Funnel charts can be used to show the conversion rates during different stages of the business process. For example, you can easily see the percentage of visitors who became paying customers in a funnel chart. A funnel chart consists of a number of tiers with different labels and widths. The labels of tiers are determined by data dimensions, such as area. The widths of tiers are determined by data measures, such as the order amounts.

Samples



Notes

You can select a maximum of one dimension for tier labels and a maximum of one measure for tier areas.

Examples

Scenario: compares the order amounts across multiple areas. The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click the Create Dashboard icon in the Actions column.



If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

4. Click the Funnel Chart icon and an empty chart appears on the dashboard.

5. On the Data tab page, select a dimension and a measure.

In the Dimensions list, locate the area field and add it to the Tier Labels (Dimensions) section. In the Measures list, locate the order_amt field and add it to Tier Area (Measures).

Data	Styl
Tier Area (Measures)
№ Emorder_amt	⇔×
Tier Labels (Dimensi	ions)
💿 area	⇔×

- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, and legend as shown in the following figure.
- 8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

- In the Layout section, you can configure the legend position, label style, and display mode.
- In the Measures section, you can configure the measure's alias, data format, and the number of decimal places.
- In the Blocks section, you can configure the dimension's alias and area colors.

Click Update and the chart is updated.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.17 Kanbans

This topic describes the overview, examples, and deletion of a kanban.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

A kanban provides an overview of data such as sales performance. Using kanbans enables you to rapidly respond to sales status and management situations. Kanbans help you to discover and solve problems.

A kanban is composed of labels and measures. Labels are based on data dimensions such as regions. Measures are based on data measures such as order numbers and order amounts.

Samples

Kanban-company_sa	ales_record	_en_0423					
Anhui		Beijing ^{09 A1-12-1}		Fujian		Gansu	
order number		order number		order numb	er	order number	
1.66K		1.16K		603		³ 1.25K	
order_amt	93.2K	order_amt	85.3K	order_amt	5 ^{09 4.4} 57.5K	order_amt	89.5K
profit_amt	11.7K	profit_amt	18.1K	profit_amt	12.9K	profit_amt	6.49K
shipping_cost323	664	shipping_cost	01.53 ^{21.0} 599	shipping_cost	219	shipping_cost	777
Guangdong		Guangxi		Guizhou		Hainan	
order number		order number		order numb	er	order number	
5.82K		2.71K		406		2.34K	
order_amt	443K	order_amt	176K	order_amt	5 ^{09 A.L} 7.82K	order_amt	198K
profit_amt	57.2K	profit_amt	17.3K	profit_amt	1.03K	profit_amt	14.8K
shipping_cost3230	2.79K	shipping_cost	3 ²⁰ 1.35K	shipping_cost	130	-shipping_cost	1.37K

Notes

You can select a maximum of one dimension for the labels of a kanban. You can select a minimum of one and a maximum of 10 measures for the metrics of a kanban.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.



If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

- 4. Click the Kanban icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select dimensions and measures.

In the Dimensions list, locate the province field and add it to the Labels (Dimensions) section. In the Measures list, select the order number, order_amt, shipping_cost, and profit_amt fields and add them to Metrics (Measures) as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title name, template types, and number of columns.

Data	Style	Advanced
Basic Settings \vee		
Card Settings \vee		
Series Settings 🗸		

8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



For jumping to a report or an external page, select Show Hyperlink and enter a name and address.

- In the Card Settings section, you can configure the template type, number of columns, and alignment. This example uses 3 as the number of columns.
- In the Series Setting section, you can configure the aliases for dimensions, units, and numbers of decimal places.

Canban-company_sales_record_en_0423						
Anhui	Beijing		Fujian 6 ⁰⁸	A112 IV	Gansu	50942.22
order number	order number		order number		order number	
1.66K	1.16K		603	AL121001537	1.25K	
order_amt 93.2	K order_amt	85.3K	order_amt	57.5K		89.5K
profit_amt 11.7	K profit_amt	18.1K	profit_amt	12.9K		6.49K
shipping_cost 6	4 shipping_cost	599	shipping_cost	219	shipping_cost	777
Guangdong	Guangxi		Guizhou	A112 M	Hainan	509 42 22
order number	order number		order number		order number	
5.82K	2.71K		406	41121001537	2.34K	100 AJ 12
order_amt 443	K order_amt	176K	order_amt	7.82K		198K
profit_amt 57.2	K profit_amt	17.3K	profit_amt	1.03K		14.8K
shipping_cost 2.79	K shipping_cost	1.35K	shipping_cost	130	shipping_cost	1.37K

Click Update and the chart is shown as follows.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.18 Treemaps

This topic describes how to create a treemap. We recommend that you read **#unique_72** and **#unique_69** before you create a treemap. You also can edit or create a dataset. For more information, see **#unique_76**.

Overview

Treemaps can be used to compare the proportions between variables easily.

A treemap consists of nested rectangles of different sizes and labels. The label of each rectangle is determined by data dimensions, such as the package design. The size of each rectangle is determined by data measures, such as the transportation cost.

Example of a treemap



Precautions

Only one dimension can be set for the labels of rectangles. This dimension can have a maximum of 12 dimension values. Only one measure can be set for the sizes of rectangles.

Scenario: Compare the order quantities of different products

The following scenario is based on the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. On the homepage, click the Workspace tab. In the left-side navigation pane, enter a group workspace name in the text box, or click the triangle next to the text box and select a group workspace from the drop-down list. Click Datasets to go to the All Items tab.
- 3. Click the Create Dashboard icon in the Actions column corresponding to the company_sales_record dataset.

Note:

If you are using Quick BI Enterprise Standard, you must select Standard or Full Screen. The following scenario uses Standard as an example.

- 4. In the toolbar, click the Treemap icon. The blank treemap is automatically displayed in the display section.
- 5. Click the Data tab and select the required measure and dimension.

In the Dimensions section, double-click product type, or drag and drop it to the Rectangle Labels (Dimensions) section. In the Measures section, double-click order number, or drag and drop it to the Rectangle Size (Measures) section, as shown in the following figure.

6. Click Update. The system automatically updates the chart.

7. On the Style tab, you can change the title and legend of the treemap, as shown in the following figure.

Data	Style	Advanced			
Title ^					
✓Show Title Treemap-com	pany_sales_record_en_0423				
Design ^					
Show Tooltip					
Custom		~			
EN					

8. Click Save to save the dashboard.

Configure a style

- In the Basic Settings section, you can set Show Title.
- In the Design section, you can set Show Tooltip, AutoFit Mode, and the number of decimal places.

Delete a map

Move the pointer over the upper-right corner of the window. Click the More icon that appears and choose More Actions > Delete to delete the current map.

3.5.19 Polar diagrams

This topic describes the overview, examples, and deletion of a polar diagram.

Make sure that you have read Dashboard overview and Dashboard basic operations before this topic. For more information about how to create a dataset, see Create a dataset.

Overview

A polar diagram compares multiple data values. It is used for comparing enumerated data, such as data based on multiple regions.

Similar to a pie chart, a polar diagram consists of slices. Labels of slices are determined by the dimension, such as the area and product type. Arc radiuses are determined by the measure, such as order numbers and order amounts.

Samples



Notes

You can select a maximum of one dimension for labels. The minimum number of dimension values is three. The maximum number of dimension values is 12. You can select a maximum of one measure for arc radiuses.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

4. Click the Polar Diagram icon and an empty chart appears on the dashboard.

5. On the Data tab page, select a dimension and a measure.

In the Dimensions list, locate the area field and add it to the Label (Dimensions) section. In the Measures list, locate the order_number field and add it to the Arc Radius (Measures) section, as shown in the following figure.



Make sure that you have converted the dimension type from String to Geo for the area dimension. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, legend, measures, and series settings.

Data	Style	Advanced
Basic Settings \vee		
Layout 🗸		
Measures V		
Series Settings \vee		

8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title name, title color, description, hyperlink, and background color. This example uses Dark as the background color.



For jumping to a report or an external page, select Show Hyperlink and enter a name and an address.

- In the Layout section, you can configure the legend position, whether to show tooltips, label style, leaders, and radiuses. The example uses Name, Value (Percentage) as the label style and uses Right as the legend position.
- In the Measures section, you can configure the data format and the number of decimal places. This example uses 2 as the number of decimal places.
- In the Series Setting section, you can configure aliases for the dimensions and slice colors.

Click Update and the chart is shown as follows.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.20 Word clouds

This topic describes the overview, examples, and deletion of a word cloud.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

A word cloud visualizes the frequency of words. It can be used in user profiles and user labels. A word cloud is based on words and font sizes. Words are determined by dimensions , such as customer names and product names. Font sizes of words are determined by measures, such as profit amounts and unit prices.

Samples



Notes

You can select a maximum of one dimension for words and a maximum of one measure for font sizes.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses Standard.

- 4. Click the Word Cloud icon and an empty chart appears.
- 5. On the Data tab page, select a dimension and measure.

In the Dimensions list, locate the province field and add it to the Word (Dimensions) section. In the Measures list, locate the order_number field and add it to the Word Size (Measures) section.



Note:

Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.



6. Click Update and the chart is updated.

7. On the Style tab page, you can configure the title name, title color, hyperlink, and background color. The updated chart is shown as follows.

Data	Style	Advanced
Basic Settings ^		
✓ Show Title Word Cloud-con	npany_sales_record_en_04	123 🔹
Description		
Show Hyperlink		
Hyperlink Name		
URL https://bi-		
Background		
Light		×



8. Click Save to save the dashboard.

Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.5.21 Tornado-leaned funnel charts

This topic describes how to create a tornado-leaned funnel chart. We recommend that you read #unique_72 and #unique_69 before you create a tornado-leaned funnel chart. You also can edit or create a dataset. For more information, see #unique_76.

Overview

A tornado-leaned funnel chart is the combination of a tornado chart and a funnel chart. Tornado charts can be used to compare different metrics between two objects , such as the income and education levels between residents in two cities. Funnel charts are used to show the rate of conversion between each step of a process. It can be used to analyze complex business procedures. For example, you can use a funnel chart to clearly show the rate of visitors that finally buy any product after they access the website.

A tornado-leaned funnel chart combines the features of tornado charts and funnel charts. For example, when you compare the percentage of the migrant population, employment rate, and commercial real estate transaction in Beijing and Shanghai, if a conversion relation exists between these metrics of the two cities, the tornado-leaned funnel chart can show the difference and conversion rates for each city between these metrics.

If no conversion relations exist, the chart functions as a tornado chart. If a conversion relation exists between metrics and only one object is defined for these metrics, the chart functions as a funnel chart.

A tornado-leaned funnel chart consists of objects and metrics. Objects are determined by data dimensions, such as the area and product type. Metrics are determined by data measures, such as the order quantity and order amount.



Example of a tornado-leaned funnel chart

Precautions

Only one dimension can be set for the objects. Set at least one measure for metrics.

Scenario: Compare the order quantities, profits, and average profits for different types of products

The following scenario is based on the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. On the homepage, click the Workspace tab. In the left-side navigation pane, enter a group workspace name in the text box, or click the triangle next to the text box and select a group workspace from the drop-down list. Click Datasets to go to the All Items tab.
- 3. Click the Create Dashboard icon in the Actions column corresponding to the company_sales_record dataset.

Note:

If you are using Quick BI Enterprise Standard, you must select Standard or Full Screen. The following scenario uses Standard as an example.

- 4. In the toolbar, click the Tornado-leaned Funnel Chart icon. The blank tornadoleaned funnel chart is automatically displayed in the display section.
- 5. Click the Data tab and select the required measures and dimension.

In the Dimensions section, double-click product type, or drag and drop it to the Metrics (Dimensions) section. In the Measures section, double-click order number, profit amt, and average profit, or drag and drop them to Metrics (Measures) in order, as shown in the following figure.



6. Click Update. The system automatically updates the chart.

7. On the Style tab, you can set Show Title, Layout, and Show Conversion Rates, as shown in the following figure.

	Data	Style		Advanced	
Basi	c Settings ^				
~	Show Title				
	Tornado-leaned	Funnel Chart-com	npany_s	ales_recor	
	Description				
	Show Hyperlink				
	Hyperlink Name				
	URL https://bi-				
Background					
	Light			~	
Layo	out ^				
Dis	play Mode 💿 Origin 🛛	Balance			
Leg	end Position				
	Sides			V	
Lef Rig	t v				
~	Show Conversion	Rates			

• Tornado-leaned funnel charts support two display modes. You can also select one mode as needed.



• You can also set Legend Position and Show Conversion Rates, as shown in the following figure.



8. Click Save to save the dashboard.

Delete a chart

Move the pointer over the upper-right corner of the window. Click the More icon that appears and choose More Actions > Delete to delete the current chart.

3.5.22 Hierarchy charts

This topic describes how to create a hierarchy chart. We recommend that you read **#unique_72** and **#unique_69** before you create a hierarchy chart. You also can edit or create a dataset. For more information, see **#unique_76**.

Overview

A hierarchy chart uses the tree structure to display and organize hierarchical data. It is an implementation of the enumeration method. For example, when you view the revenues of the prefecture-level cities within a province, the relationships between the province and prefecture-level cities can be displayed in parent-child structures . Hierarchy charts are used to analyze organizational structures, such as the staff structure of a company or the department structure of a hospital.

A hierarchy chart consists of node metrics and node labels. Each node label is determined by data dimensions, such as the area and product type. Each node metric is determined by data measures, such as the order quantity and order amount.

Example of a hierarchy chart



Precautions

At least two dimensions must be set for node labels. These two dimensions must have a parent-child relationship. At least one measure must be set for the node metric.

Scenario: Compare the order quantities of different products across provinces and areas

The following scenario is based on the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. On the homepage, click the Workspace tab. In the left-side navigation pane, enter a group workspace name in the text box, or click the triangle next to the text box and select a group workspace from the drop-down list. Click Datasets to go to the All Items tab.
- 3. Click the Create Dashboard icon in the Actions column corresponding to the company_sales_record dataset.



If you are using Quick BI Enterprise Standard, you must select Standard or Full Screen. The following scenario uses Standard as an example.

- 4. In the toolbar, click the Hierarchy Chart icon. The blank hierarchy chart is automatically displayed in the display section.
- 5. Click the Data tab and select the required measures and dimensions.

In the Dimensions section, double-click area, province, and product type, or drag and drop them to the Node Labels (Dimensions) section in order. This order determines their hierarchical relationships in the chart. In the Measures section, double-click order number, or drag and drop it to the Node Metrics (Measures) section, as shown in the following figure.

Note:

Make sure you have changed the data type of the province field value from String to Geo.



- 6. Click Update. The system automatically updates the chart.
- 7. On the Style tab, you can set Show Title, Layout, and Design.
 - Hierarchy charts support three layouts. You can select the expansion mode (root nodes are merged by default) and display mode of parent and child nodes as needed.



• In the Design section, you can manually enter the number of hierarchy levels displayed in the chart. You can select a primary path from the corresponding drop down list. The primary path is displayed in a different color from other
paths. You can load the filter bar to the chart so that you can edit the chart in the preview mode or on the dashboard, as shown in the following figure.

Design ^	
Levels All Items 2	
Primary Path	
None	~
Sort	
	~
Highlight Primary Path	
Highlight Bounce Path	
Show Filter Bar	

8. Click Save to save the dashboard.

Delete a chart

Move the pointer over the upper-right corner of the window. Click the More icon that appears and choose More Actions > Delete to delete the current chart.

3.5.23 Flow analysis charts

This topic describes how to create a flow analysis chart. We recommend that you read **#unique_72** and **#unique_69** before you create a flow analysis chart. You also can edit or create a dataset. For more information, see **#unique_76**.

Overview

A flow analysis chart illustrates the conversion rate of a Webpage by comparing the page traffic or number page views (PV) against the number of unique visitors (UV), so that the Webpage operators can gain insights into the operating status of the Website and the final transaction volume for a type of product. A flow analysis chart is suitable for analyzing digital marketing campaigns and e-commerce websites. For example , you can use a flow analysis chart to find out which products are in highest demand and what are the peak hours of your business.

Currently, a flow analysis chart supports the following three dimensions: previous page, current page, and next page. The measures of a flow analysis chart include PV,

UV, conversion rate, and bounce rate. You need to specify the PVs or UVs for all three pages.

Example of a flow analysis chart



Precautions

Only one dimension can be set for each of the three pages. The dimension fields must be hierarchical. The order of the dimensions determines the hierarchical relationsh ip in the chart. Only one measure can be set for each of the three PVs or UVs, the conversion rate, and the bounce rate.

The three dimensions, the conversion rate, and the bounce rate are required fields . You can choose to specify only the PVs or UVs for all three pages. Error messages appear if fields are incorrectly specified when you add the dimensions and measures.

Scenario: Use PVs to demonstrate the conversion and bounce rates on different pages

The following uses the page_source_target_state dataset as an example.

- 1. Log on to the Quick BI console.
- 2. On the homepage, click the Workspace tab. In the left-side navigation pane, enter a group workspace name in the text box, or click the triangle next to the text box and select a group workspace from the drop-down list. Click Datasets to go to the All Items tab.
- 3. Select the page_source_target_state dataset and click Create Dashboard.

Note:

If you are using Quick BI Enterprise Standard, you must select Standard or Full Screen. The following scenario uses Standard as an example.

- 4. In the toolbar, click the Flow Analysis icon. The blank flow analysis chart is automatically displayed in the display section.
- 5. Click the Data tab and select the required measures and dimensions.

In the Dimensions section, double-click Previous Page, Current Page, and Next Page, or drag and drop them to the corresponding fields. This order determines the hierarchical relationship between pages in the diagram. In the Measures section, double-click Conversion Rate and Bounce Rate, or drag and drop them to the corresponding fields. You must also select three PVs or UVs for the corresponding pages, as shown in the following figure.

Data	St	yle	Advanced	
Data Source Type:		Dataset		
Previous Page (Dimensi	ions)	page_source_	_target_2 ∨	Ø
Str. SOUICE	⇔x			
Current Page (Dimensio	ns) ⊜×	Dimensions	ate(week)(mon. ate(week)(mon.	 ()
Next Page (Dimensions) Str. target) 令×	bizd bizd bizd bizd bizd	ate(week)(day) ate(week)(hour) ate(week)(min ate(week)(sec	



6. Click Update. The system automatically updates the chart.

7. On the Style tab, you can set Show Title and Layout.

In the Layout section, you can select one of the three modes and select Highlight Primary Path or Highlight Bounce Path for the mode.

Graphic Design	9-4	Change Chart Type •									
Data	Style	Advanced									
Title ^											
√ Show Title											
Flow Analysis-pa	ge_source_target_201905	507_16_04_05_en_20									
Layout ^											
Highlight Primary Path											
Highlight Bounce	Path										

8. Click Save to save the dashboard.

Delete a chart

Move the pointer over the upper-right corner of the window. Click the More icon that appears and choose More Actions > Delete to delete the current chart.

3.5.24 LBS heat maps

This topic describes the overview, examples, and deletion of an LBS heat map.



LBS heat maps only apply to Quick BI Enterprise Standard.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

Similar to a colored map, an LBS heat map represents the size and distribution of data by using different shades of location dots.

An LBS heat map is based on geographic locations and heat intensity. Geographic locations are determined by Geo type dimensions such as the province. Heat intensity is determined by measures such as the order amount and profit amount.

Samples



Notes

You can only select one dimension for the geographical locations and the dimension type must be Geo. You can select a minimum of one and a maximum of five measures for the heat intensity.

For more information, see Detailed information for regions.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.

3. Select the company_sales_record dataset and click the Create Dashboard icon.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the LBS Heat Map icon and an empty chart appears.
- 5. On the Data tab page, select a dimension and measures.

On the Dimensions list, locate the province field and add it to the Geo Location section. On the Measures list, locate the order_number and shipping cost fields and add them to the Heat Intensity (Measures) section respectively.



Make sure that you have converted the dimension type from String to Geo for the province dimension. For more information, see Change the dimension type.

- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, and measures' aliases.

Data	Style	Advanced
General config 🗸		
Layout 🗸		
Series setting \checkmark		

8. Click Save to save the dashboard.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



To configure a hyperlink used to jump to a report or an external page, select Show Hyperlink and enter a name and address.

- In the Layout section, you can configure the legend position, base map, zoom setting, and map center. This example uses Google Map as the base map.
- In the Series Settings section, you can configure measures' aliases and legend colors.

LBS Heat Map-company_sales_record_en_0423 order_number shipping_cost Nur-Sultan Нұр-Сұлтан Mongolia Kyrgyzstan North Korea Seoul 서울 Tajikistan South Korea Japan China Shanghai 上海 East China S Pakistar Nepal Bhuta Taipei 台北

Click Update and the chart is updated.

Delete a chart

In the upper-right corner of the chart, choose More Actions > Delete to delete the chart.

3.5.25 LBS bubble maps

This topic describes the overview, examples, and deletion of an LBS bubble map.



LBS bubble maps only apply to Quick BI Enterprise Standard.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

Similar to a bubble map, an LBS bubble map is a map that uses the sizes of bubbles distributed across the map to reflect data. It provides multiple base maps for you to choose from, such as AMAP, Google Maps, and GeoQ. LBS bubble maps allow you to understand the distribution and values of metrics across countries and regions in an easy and visual way. For example, LBS bubble maps can display the passenger numbers across tourist attractions or the per capita incomes across regions.

An LBS bubble map is based on bubble sizes and geographical locations. Geographic al locations are determined by Geo type dimensions such as the province. Bubble sizes are determined by measures such as the shipping cost and order number.

Samples



Notes

You can only select one dimension for the geographical locations and the dimension type must be Geo. For example, the area, province, and city fields. You can select a minimum of one and a maximum of five measures for bubble sizes.

For more information, see Detailed information for regions.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.
- 3. Select the company_sales_record dataset and click Create Dashboard.



If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the LBS Bubble Map icon and an empty chart appears.
- 5. On the Data tab page, select dimensions and measures.

On the Dimensions list, locate the province field to the Geo Location section. On the Measures list, locate the order_amt and profit_amt fields and add them to the Bubble Size (Measures) section respectively.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, and data display formats.



8. Click Save to save the dashboard.

In the upper-right corner of the chart, choose More Actions > Delete to delete the chart.

Configure the style

• In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.



To configure a hyperlink used to jump to a report or an external page, select Show Hyperlink and enter a name and address.

- In the Layout section, you can configure the legend position, base map, zoom settings, and map center. This example uses Google Map as the base map.
- In the Series Settings section, you can configure the measures' aliases, data display formats, and numbers of decimal places.



Click Update and the chart is updated.

Delete a chart

In the upper-right corner of the chart, choose More Actions > Delete to delete the chart.

3.5.26 LBS flying line maps

This topic describes the overview, examples, and deletion of an LBS flying line map.



Only Quick BI Enterprise Standard supports LBS flying line maps.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

An LBS flying line map is a map that uses flying lines to display the relations between data across two or more locations.

An LBS flying line map consists of geographic locations and routes. Geographic locations are based on dimensions such as the province. Color scales are based on measures such as the order amount and order number.

Overview

An LBS flying line map is a map that uses flying lines to display the relations between data across two or more locations.

An LBS flying line map consists of geographic locations and routes. Geographic locations are based on dimensions such as the province. Color scales are based on measures such as the order amount and order number.

Samples



Notes

You can only select one dimension for each geographic location and the dimensions must be Geo type fields such as the area, province, and city. You can select a maximum of one measure for the routes.

For more information, see Detailed information for regions.

Examples

The following example uses the company_sales_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.

3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the LBS Flying Line Map icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select dimensions and a measure.

On the Dimensions list, locate the area field and add it to the Geo Location (From) section. Locate the province field and add it to the Geo Location (To) section. On the Measures list, locate the shipping_cost field and add it to the Routes (Measures) section as shown in the following figure.

Note:

Make sure that you have converted the dimension type from String to Geo for the province and area fields. For more information, see Change the dimension type.



- 6. Click Update and the chart is updated.
- 7. On the Style tab page, you can configure the title, layout, and series setting as shown in the following figure.



8. Click Save to save the dashboard.

In the upper-right corner of the chart, choose More Actions > Delete to delete the chart.

Configure the style

- In the Basic Information section, you can configure the title, hyperlink, and background color. This example uses Dark as the background color.
- In the Layout section, you can configure the legend position, base map, zoom settings, and map center. This example uses Google Map as the base map.

Note:

You can adjust the flying speed by moving the Flying Time slider. The bigger the slider value, the lower the flying speed.

• In the Series Setting section, you can configure the measure's alias and line color.

Click Update and the chart is updated.



Delete a chart

In the upper-right corner of the chart, choose More Actions > Delete to delete the chart.

3.5.27 Progress bars

This topic describes the overview, examples, and deletion of a progress bar.

Make sure that you have read Dashboard overview and Dashboard basic operations before reading this topic. For more information about how to create a dataset, see Create a dataset.

Overview

A progress bar displays the progress of a task.

A progress bar consists of multiple progress metrics. Progress metrics are determined by data measures such as the order number.

Samples



Notes

- You can select a minimum of one and a maximum of five measures for a progress bar.
- Choose Style > Series Settings and set the minimum and maximum values that a progress bar can display.

Examples

Scenario: displays the order number. The following example uses the company_sa les_record dataset.

- 1. Log on to the Quick BI console.
- 2. Click Datasets to go to the Datasets page.

3. Select the company_sales_record dataset and click Create Dashboard.

Note:

If you use Quick BI Enterprise Standard, you need to select Standard or Full Screen as the dashboard display mode. The following example uses the Standard display mode.

- 4. Click the Progress Bar icon and an empty chart appears on the dashboard.
- 5. On the Data tab page, select measures.

On the Measures list, locate the order_number field and add it to the Pointer (Measures) section as shown in the following figure.

Progress indicator/Measure							
№ Emorder_number 🔤 🗙							
Filters							
Double-click or drag-and-dro							

6. Click Update and the chart is updated.

7. On the Style tab page, you can configure the title, background color, hyperlink, legend, and measures' aliases as shown in the following figure.

Data	Data Style Advanced									
General config ^										
✓ show Title		۲								
Progress-compa	any_sales_record_en_	us 🗸								
Remarks										
Background										
Light										
Layout へ										
Show legend Show legend Image: Constraint of the second	Show legend Image: Show tooltip									
Series settings 🔨										
order_number										
Alias										
order_number										
Min										
Min										
Max										
Max										
Format										
Auto fit (English	ı)									
Decimal digits										

8. Click Save to save the dashboard.

Configure the style

- In the Basic Information section, you can configure the title, hyperlink, and background color of a chart. This example uses Dark as the background color.
- In the Layout section, you can select the position of legend and choose whether to show the tooltips.

• In the Series Settings section, you can configure the measures' aliases, value ranges , data formats, and numbers of decimal places.

Click Update and the chart is updated.



Delete a chart

Click the More Actions icon in the upper-right corner of a chart and select Delete from the drop-down list to delete the chart.

3.6 Share dashboards, make dashboard public, transfer dashboards, add dashboards to favorites, and change the security level

You can share dashboards or make dashboards public.

Share a dashboard

- 1. Log on to the Quick BI console.
- 2. Select Workspaces > Dashboards.
- 3. On the dashboards page, select a dashboard, and click the Share icon.

4. Set the expiration date and select the users that you want to share the dashboard with, as shown in the following figure:

Share	
Name :	実行型に行
* Expiration Date :	Duration V Date 🗐
* Scope :	O All Users O User Groups O Users
Note:	Three authorization levels coexist, and a user only requires
	one permission.



In Quick BI Pro and Quick BI Enterprise Standard, you can share dashboards with the specified user groups, the specified users, or all users. In Quick BI Standard, you can only specify users.

5. Click Save to share the dashboard.

Make a dashboard public

- 1. Log on to the Quick BI console.
- 2. Select Workspaces > Dashboards.
- 3. On the dashboards page, select a dashboard, right-click the dashboard and select Make Public, or click the More icon and select Make Public.

4. Set the expiration date and select Generate URL.

Make Public	
Security Level:	Public
Owner:	5094012100255210
Expiration Date:	
Generate URL:	
U Warning When you m your work. E	ake a work publicly available, any user can use this URL to access xercise caution when performing this operation.

5. Click Make Public.

Rename a dashboard, transfer it, or change its security level

- 1. Log on to the Quick BI console.
- 2. Select Workspaces > Dashboards.
- 3. On the dashboards page, select a dashboard, right-click the dashboard and select Properties, or click the Properties icon.
- 4. On the Properties page, you can rename the dashboard, transfer the dashboard to another member, or change its security level. If the security level is set to

Protected, other members in the workspace can edit the dashboard. They can use the lock function to prevent their changes from being overwritten by others'.

Edit Propert	ies	
* Name:	2012年Test	
Owner:	9194112100133210	\sim
Description:	Enter a description.	
Security Level:	 Private (Allow Only Workspace Owner to Edit) Protected (Allow Other Workspace Members to Edit) 	

Note:

The dashboard transfer and security level functions are only available in Quick BI Pro and Quick BI Enterprise Standard workspaces.

Add a dashboard to favorites

You can use the following methods to add a dashboard to favorites:

 $\cdot\,$ Go to the dashboards page, click the Add to Favorites icon before the dashboard name.

ndard 🔵	Vou have added 222222222 Vou have added 222222222 VVOIKSPACE	2 to favorites. Guide Subscriptions		¢	ହ	0	\bigcirc
ashboards All Items	My Items	Name 🗸 Q 1	Total Files: 11	+ Create Dashboard	+	Create F	older
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★ <mark>11</mark> 明亮图Test ©		5094112100153210	5094112100153210 4/22/2019, 11:16:39	Standard	Ø	e ~	

• Go to the dashboard edit page, click the Add to Favorites icon after the dashboard name.

<	al 副运搬Test		O This item has been added to favorites.						Ē		
Q	T 🖉 🗒 🖪	Remove from Favorites	4 🗉	$\mathbf{\hat{o}}$	•	Ţ	٨	-	-	9-≉	



You can click the Add to Favorites icon again to remove a dashboard from your favorites.

4 Create workbooks

4.1 Workbook overview

Workbooks are available only in the workspace of Quick BI Pro and Quick BI Enterprise Standard. You cannot create workbooks in personal spaces. You can only add charts and filter bars in Quick BI Enterprise Standard.

Edit page description

The Edit page of a workbook is divided into the following areas:

- · Dataset selection area
- · Workbook configuration area
- · Workbook display area

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5																Columns		
6																		
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9																Filters		oity
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- Dataset selection area: In this area, you can switch datasets. The fields of each dataset are displayed in the Dimensions and Measures lists based on the data types preset in the system. You can select dimensions and measures based on the data in the chart.
- Workbook configuration area: In this area, you can select the expected chart type, and set the color, font, and data format of cells as needed.
- Workbook display area: In this area, you can reprocess data based on the displayed data in cells and reference data.

4.2 Basic workbook operations

4.2.1 Create a workbook

After the datasets have been prepared, you can create workbooks based on the prepared datasets. For more information about creating datasets, see **#unique_76**.

If you want to perform more complex operations on the fields, you need to go to the dataset editing page to Convert Dimension to Measure, Convert Measure to Dimension, Create Calculated Field, and Create Hierarchy.

After a dataset schema has been changed, you need to reload the workbook to view the changed dataset schema.

- 1. Log on to the Quick BI console.
- 2. Switch to a workspace, as shown in the following figure.
- 3. ClickWorkspace > Workbook, and enter the Workbooks page.
- 4. Click Create Workbook to open the workbook editing page.
- 5. Click the Data Preview icon to open the preview area.
- 6. Click the drop-down arrow to select a dataset.
- 7. Double-click or drag a field to the right-side panel, and then click Update.
- 8. The selected fields are automatically shown in the workbook.
- 9. Click Transpose > Update to transfer it to a two-dimensional table.
- 10.After you have selected the fields, click Save.
- 11.Enter a chart name, and select the location to save the workbook.
- 12.Click OK to finish creating the workbook.

4.2.2 Configure workbooks

You can configure workbooks on the Edit page.

Common functions

On the workbook Edit page, you can perform multiple operations on data, including undo, redo, cut, copy, and paste, as shown in the following figure:



Conditional formatting

Click the Conditional Formatting icon to set conditional formatting rules, for example, highlight values within a specified value range.

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	Set Conditional Formatting										
	Highlight Data Bars Icons										
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Add images and hyperlinks

You can click the Upload Image and Hyperlink icons to add images and hyperlinks to the workbook to visually optimize the workbook, as shown in the following figure:



Add drop-down lists

You can click the Drop Down icon to add labels to the data records.



Separate multiple labels with commas (,).

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	Set Drop-down Box X * Tag : Use commas to separate multiple tags. Value : Use commas to separate multiple value:									
							Cance	el	ОК	

Text format

This feature allows you to adjust the text format in charts.

- Specify the text font, color, and background.
- · Specify the text size and style (bold, italic, underline, and strikethrough).
- · Specify the cell style (text alignment, text wrap, text indent, and cell merge).
- Specify the text formatting method (general, number, text, percentage, date, and custom settings)



Table properties

This feature allows you to adjust table properties.

- Insert rows, insert columns, delete rows, delete columns, autofit row height, and autofit column width.
- · Group, ungroup, hide rows, hide columns, freeze rows, and freeze columns.
- Set borders.
- · Sort, filter, and set table styles.



Global variables

You can set global variables in the workbook. You can use global variables to add hyperlinks to cross tables.

1. On the workbook Editing page, click the Global Variables icon.



2. In the Global Variables dialog box, enter the required variable and click OK, as shown in the following figure:

Global Variables		×
Global Variables	Linked Charts Select All	Select a filter field.
		Cancel OK

Create charts

In the workbook, you can create charts based on the data in the workbook. Currently , you can create the following types of charts: line, vertical bar, pie, funnel, scatter, and radar charts. You can also create gauges and polar diagrams.

- 1. You can click a chart icon to create a chart, such as a vertical bar chart.
- 2. You need to select data sources in the workbook to create charts.

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	2013-03	230	99999998	3								
	2013-04	111	1428.452	2								
	2013-05	214	5408.2315	5								
	2013-06	110	8499.676	5								
	2013-07	44	350.53	3								
	2013-08	36	3013.29	Э								
	2013-09	63	1744.3285	5								
	2013-10	61	765.95	5								

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13		5000										
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16												
17	75-410	2013-16	247	99999997	1]	1		1		b

3. Click OK. A chart is automatically created in the workbook.

4.2.3 Add filter bars

You can add filter bars to filter your data.

Procedure

- 1. Open the editing page of a workbook
- 2. Click the Filter Bar icon to open the editing page of the Filter Bar.
- 3. Click the +Add Correlated Datasets icon and select the datasets.

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+Add Link	ed Dataset				> 💻	Rows		company_sales	_record ∨	

4. Select a field to be filtered such as shipping type by double-clicking or dragging it to the Filter Fields area.

If Highlight Pivot Tables is set in the chart, you need to select the available pivot tables for the field.

- 5. Click the Set Filter icon.
- 6. Select a chart that this field can affect, such as pivot table 1 in sheet 1. Select the filter mode. For example, select Filter by Enumeration and Multiple Select.
- 7. In the drop-down menu, select the field to be queried, such as train, as shown in the following figure.
- 8. Click OK to finish the filter settings.
- 9. Click Search to view the filtered result.

4.2.4 Highlight pivot tables

You can use the highlight pivot table feature to show data in different pivot tables.

- 1. Open the workbook editing page
- 2. Click the Data Preview icon and select a dataset.
- 3. Double-click or drag the fields to the panel, and then click Update.
- 4. Click Highlight Pivot Table, and then select the area to show the data.
- 5. Double-click or drag the fields to the panel, and then click Update.

You can modify the display name for different pivot tables.

4.3 Search, move, and delete workbooks

You can search, move, and delete the workbooks that you have created.

Search workbooks

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, enter a workbook name or username in the search box on the workbooks page.

Workbooks All Items My Items	Name 🔨 🔍 Total Files: 3	+ Create Workbook	+ Create Folder
Name 🗘	Name ed By \$	Modified By/At	Actions
* 📚 Under the	Created By 5094112100153210	5094112100153210 1/10/2019, 22:51:42	2 E, ~; :
* 📚 2000 0	5094112100153210	5094112100153210 1/10/2019, 22:35:49	⊠ E, ∝, :

3. Click the Search icon to search for the workbook.

Move workbooks

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, select a workbook on the workbooks page. Click the More icon, or right-click the workbook.
- 3. Select Move To.

4. Select a directory and click Save.

Ν	love To
*	Root Directory V313

Delete workbooks

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, select a workbook on the workbooks page. Click the More icon, or right-click the workbook.
- 3. Select Delete to delete the workbook.

4.4 Manage workbooks

On the workbooks page, you can create, rename, and delete workbook folders.

Create a workbook folder

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, click Create Folder on the workbooks page, and enter a folder name.
- 3. Click OK to create the folder.

≔	Workbooks All Items My Items	Name V Q Total Files: 1	+ Create Workbook	+ Create Folder
🛝 0919_workspace 🛛 😔 👻	Name 💠	Created By 🌲	Modified By/At	Actions
BI Portais	V313	5094112100153210	5094112100153210 1/10/2019, 22:40:32	R 🗊
Sashboards	* 📚 WorkBookTest •	5094112100153210	5094112100153210 12/17/2018, 16:38:42	Cí E, ¢; :

Rename a workbook folder

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, select a workbook folder on the workbooks page, click the Rename icon, or right-click the folder and select Rename.

3. Enter a new folder name, and clickOK.

:=	Workbooks All Items My It	Rename	×	✓ Q Total Files: 1	+ Create Workbook	+ Create Folder
all 0919_workspace 🛛 😔 👻	Name 🖨			Created By 🜲		
BI Portals	VII5	* Name: V313		984012100150210	9894112100150210 1/00/0002 2240/02	
Dashboards	* 💽 WorkdookText 🌣	Cancel	ОК	5854112100150218	9094112108150318 12,417/2818, 10:58-42	

Create a workbook folder

- 1. Log on to the Quick BI console.
- 2. Click Workbooks, select a workbook folder on the workbooks page, click the Delete icon, or right-click the folder and select Delete.
- 3. Click OK to delete the workbook folder.

≔	Workbooks All Items My		✓ Q Total Files: 1	+ Create Workbook	+ Create Folder
all 0919_workspace 🛛 🔗 👻	Name 🖨	Are you sure that you want to delete this folder?	Created By 🌲		
BI Portals	in sur	Cancel OK	5		
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Workbooks					

5 BI portals

5.1 BI portal overview

A BI portal is a set of dashboards, workbooks, and external links organized with menus. You can use a BI portal to perform complex topic-based data analysis with navigation menus.

5.2 Create a BI portal

This topic describes how to create a BI portal.

Procedure

- 1. Log on to the Quick BI console, and select a workspace.
- 2. In the left-side navigation pane, select BI Portals.
- 3. Click Create BI Portal.

:=	BI Portals All Items My Items	Name V Q. Total Files: 1 + Create BI Portal
/ DefaultWorks ♀ -	Name 🗘	Created By 🗘 Modified By/At Actions
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Se Workbooks		
Datasets		
< → Data Sources		

4. On the BI portal edit page, set the parameters, and then click Save.

5.3 Configure page settings

On the page settings page, you can set the title, logo, and footer of a BI portal page.

Procedure

- 1. Log on to the Quick BI console, and select a workspace.
- 2. In the left-side navigation pane, select BI portals.
- 3. On the BI portals page, click a BI portal name.

You can also create a BI portal. For more information, see #unique_170.

4. Click the Settings icon to edit the BI portal page.


5. Click Save.

5.4 Configure menus

On the menu settings page, you can set the title, links, and other information of a menu.

Procedure

- 1. Log on to the Quick BI console, and select a workspace.
- 2. In the left-side navigation pane, select BI Portals.
- 3. On the data portals page, click a BI portal name.

You can also create a BI portal. For more information, see #unique_170.

4. Select a menu level from the left-side list, and edit the menu on the right-side Detail Settings page.



- You can select a menu on the Menu Settings page and edit the menu.
- You can add dashboards or workbooks to menus.

5. Click Save.

5.5 Share, rename, and transfer BI portals and change security level

The share function allows you to share BI portals with other users. You can edit the properties of a BI portal. You can rename a BI portal, transfer it to another user, or change its security level.

Share a BI portal

- 1. Log on to the Quick BI console, and select a workspace.
- 2. In the left-side navigation pane, select BI Portals.
- 3. On the BI portals page, right-click a BI portal, and select Share.
- 4. Set the expiration date and select the users that you want to share the BI portal with.

Share	
Name :	Untitled
* Expiration Date :	Duration V Date
* Scope :	O All Users O User Groups O Users
Note:	Three authorization levels coexist, and a user only requires
	one permission.

Rename a BI portal, transfer it, or change its security level

- 1. Log on to the Quick BI console, and select a workspace.
- 2. In the left-side navigation pane, select BI Portals.
- 3. On the BI portals page, right-click a BI portal, and select Edit Properties.
- 4. On the properties page, you can rename the BI portal, transfer it to another user in the workspace, or change its security level. If the security level is set to Protected,

other members in the workspace can edit the BI portal. They can use the lock function to prevent their changes from being overwritten by the other users.



Note:

The BI portal transfer and security level functions are only available in group workspaces.

5.6 BI portal menu permissions

For more information about managing permissions of BI portal menus, see #unique_174.

6 Privilege control

6.1 Basic concepts of permission management

Permission management include data object management and row-level permission management.

Data objects include data sources, datasets, workbooks, dashboards, and portals. Data object management is classified based on the workspace types, which include the personal workspace and the workspace.

Row-level permission

You do not need to configure row-level permission for all fields in a dataset. Configure row-level permission for certain fields as needed.

Currently, for a single field, the maximum number of values that can be shown on the list is 500. If the number of values exceeds 500, you can add the excess values to the list manually.

You can find the All check box on the list. If you select the All check box (equivalent to selecting all values of a field) for a member of the organization, then the member can access the dataset without restriction from this field. You do not need to reselect the All check box after adding or deleting values for this field.

Significant time for configuring permissions is saved for administrators through selecting the All check box.

Manage data objects in a workspace

Quick BI supports sharing and publishing data objects in a workspace.

Share data objects in a workspace

Quick BI supports sharing workbooks, dashboards, and portals. Shared data objects are read-only for other Alibaba Cloud accounts and RAM users. Other Alibaba Cloud accounts and RAM users do not have permission to modify, delete or save the data objects.

• Only the owner of the data object and the administrators of the workspaces have permissions to share the data object.

- If you clear the Works can be authorized checkbox for a workspace, then the data objects in this workspace cannot be shared.
- Currently, data objects can only be shared with Alibaba Cloud accounts and RAM users of the same organization.

Members can access the data objects in the workspace that they belong to.

Data objects can be shared with members of the same organization. Authorized users can view the shared data objects in their own personal workspaces.

Publish data objects in a workspace

Data objects that have been published can be accessed by everyone using the URLs. We recommend that you do not publish data objects that involve private business data

Manage data objects in the personal workspace

Only the owner of a personal workspace has permission to perform operations on the data objects.

Share data objects in the personal workspace

Quick BI supports sharing workbooks, dashboards, and portals. Shared data objects are read-only for other Alibaba Cloud accounts and RAM users. Other Alibaba Cloud accounts and RAM users do not have permissions to modify, delete or save the data objects.

- Only the owner of the data objects has permission to share them.
- Data objects can only be shared with users of Alibaba Cloud Quick BI.

Authorized users can view the shared data objects in their own personal workspaces.

Publish data objects in the personal workspace

Data objects that have been published can be accessed by everyone using the URLs. We recommend that you do not publish data objects that involve private business data

6.2 Configure row-level permissions

Row-level permissions are performed based on datasets. Quick BI supports the following authorization modes: User/User Group Authorization and Tag

Authentication. Currently, only Quick BI Pro and Quick BI Professional Edition support performing row-level permissions based on datasets.

The User/User Group Authorization mode applies to scenarios that involve a small number of members. The Tag Authentication mode applies to scenarios that involve a large number of members. Tag Authentication authorizes all users at once instead of implementing authorization for users/user groups separately. In scenarios that involve a large number of members, using Tag Authentication reduces costs and complexity for configuring row-level permissions and makes it easier for management.

User/User Group Authorization

- 1. Log on to the Quick BI console.
- 2. Select a workspace. If you need to create a workspace, see #unique_178.
- 3. Click the Datasets icon to jump to the Datasets page.
- 4. Select a dataset. Click the More icon in the Actions column or right click the dataset.
- 5. Select Row-Level Permissions.
- 6. Select theEnable Row-Level Access Control > User/User Group Authorizationcheck box to enable row-level permissions.

7. Click the drop-down arrow. Select the fields to perform row-level permissions, such as province and metrics, as shown in the following figure.

Grant Row-Level Permissions	Grant Row-Level Permissions to Dataset company_sales_record_en				
Enable Row-level Access Control Fields: province, Measure Value					
Authorize: Tag 💿 Users/User Gr	oups				
User Groups Users	Permission To				
Search by keyword. Q	✓ ☐ Configured Permissions				
- married and	✓ ☐ Measure Value				
1000					
	✓ ➡ Inherited Permissions (Locked)				
	➤ ➤ Measure Value				
	→ Province				
(1) Notes:					
1. Only the first 500 members	are listed. However, you can manually add more members.				
2. The two authorization mode	s are mutually exclusive, and you can select only one mode.				
	Close				

The values of the metrics field are the metrics in the dataset. By performing rowlevel access permissions on the metrics field, users have access to different data rows that are corresponding to the values of the metrics field.

8. Click the province field in the Permissions list. Then all values of the province field are listed as shown in the following figure.

9. Select a member. Then select the values of the province field to grant row-level permission to the user as shown in the following figure.

Enable Row-level Access Co	ntrol Fields: province,Measure Value	\diamond	
authorize: 🔵 Tag 💿 Users/Us	er Groups		
User Groups Users	Permission To	Select	Specify
Search by keyword. (🔾 🗸 🗁 Configured Permissions	Search by ke	eyword. Q
example4	∨ 🗁 Measure Value	All	
ASDF	^ □ province	Anhui	
5094112100153210	✓ ➡ Inherited Permissions (Lock	🗸 Beijing	
	🗸 🗁 Measure Value	🗸 Fujian	
	✓ ➡ province	Gansu	
		Guangdo	ng
		Guangxi	
			Add
Notes:			
1. Only the first 500 memb	ers are listed. However, you can manually a	add more mem	bers.
2 The two authorization m	odes are mutually exclusive, and you can s	elect only one	mode

The member can only view the data rows where the value of the province field is Shanghai or Yunnan.

Note:

Specify for all members of the workspace whether they have permissions to access the data rows that are corresponding to the values of the field, on which row-level permissions have been performed. Members, who haven't been specified the permission for, do not have permissions to access any data reports generated from the dataset by default.

10.Click Add to complete the configuration of row-level permissions.

Tag Authentication

Scenario: Users can only access the data rows in the company_sales_record dataset where the value of the shipping_type is truck or air.

Set member tags

1. On the Settings page, select Edit Member Tags in the Actions column for the member to authorize as shown in the following figure.

: Org Settings	Organization Basics	Members User Groups	AccessKey	Q	Import Members Add Membe	er Manage Tags
R Organization						
 Workspaces 	Account⇔	Alias 🗇	Activated ③ 🗢 Joined At 🗢	Workspace 🗢	Role 🗘 🛛 A	ctions
	example4@aliyun.com NEW	example4	No 5/20/2019, 17:48:03	8	User Edit Remove	Edit Member Tags

2. In the Edit Member Tags dialog box, set the value of the area tag to air, truck and clickOK.

Edit Member Tags		×
area	air,truck	
example		
	Cance	ОК

After setting the member tags, set tag authentication in the Row-Level Access dialog box for the dataset.

Set tag authentication

- 1. Select the company_sales_record dataset. Click the More icon in the Actions column or right click the dataset.
- 2. Select Row-Level Permissions.
- 3. Select the Enable Row-Level Access Control > Tag Authentication check box to enable row-level permissions.

4. From the Field drop-down list, select shipping_type. Select area as Tag Parameter. Click OK to complete the settings.

Grant Row-Level Permissions t	o Dataset company_sale	s_record_en	\times
Enable Row-level Access Control	Fields: shipping_type	\$	
Field	Tag		Actions
shipping_type	area 👻		Delete
		Cancel	ОК

After tag authentication is complete, the user can only access data rows where the shipping_type is air or truck.

6.3 Configure BI portal menu permissions

Workspace administrators can manage permissions to view BI portal menus.

You can grant menu permissions to a specified user or user group. Procedure:

- 1. Log on to the Quick BI console.
- 2. Select the target workspace. For more information about creating a workspace, see #unique_178.
- 3. In the left-side navigation pane, click BI Portals to go to the BI Portals page.

4. On the BI Portals page, select the target portal and click the More icon in the Actions column, or right-click the target portal and select Menu Permissions, as shown in the following figure:

Portals	All Items My	Items	Q.A			+ 0	Create I	Portal
Name 🌲			Created By 🌲	Modified By			Acti	ons
* 😐	0 360 minute January	🛛 Edit	hquarterit@05708	Landreitiktefinit 2020/2013, 1827604	Ø	Ę	¢	:
* 😑	SORTZIANS O	El Edit Properties	hquarteril(00500-	Lapanieri (2005) 0 2022/2013, 1.029-24	Ø	Ę	ಜೆ	:
* 😑	88812 O	Delete Menu permissions	hquarteril(00700-	Lapanieri(200510) 2/20/2018, 10:01:028	Ø	Ę	ಳೆ	:
* 😐	ind O		Laurinite (1970)	hapantest#2020108 2/12/2018, 10:20:00	Ø	Ę	œ	:

5. In the Manage Menu Permissions dialog box, select the target menu, specify whether the menu is available only to authorized users, and select the users or user groups that you need to authorize.

Profit Menu authority management		×
Menu selection	Permission settings	
Search by keyword Q	Only authorized to be visible : O Yes	No
✓ Menu permissions	User group	User
∨ Level 1 Menu	▶□ 新海城県	
✓ Level 2 Menu	 (123,play,時代) 	
profits	1988年	
	进行的女。	
	ind ind	
	0122_042_形件图	
	2015年後	
① Click to select the to-authorize menu.		
		Cancel OK

Note:

For more information about Available Only to Authorized Users, see the following description:

- Yes: Only authorized user groups and users have permissions to view the specified menu.
- No: All users have permissions to view the specified menu.

For more information about user groups, see **#unique_180**.

6. Click OK to complete the configuration.

7 Email subscriptions

The email subscription function of Quick BI allows you to use emails to send pictures of dashboards or workbooks to users periodically. This function is only available in Quick BI Pro and Quick BI Enterprise Standard.

7.1 Create an email subscription

You can create an email subscription to send emails to the specified recipients.

- 1. Log on to the Quick BI console.
- 2. Click Subscriptions.
- 3. On the email subscriptions page, click +Subscribe.

😍 Quick BI 😢 Quick BI Standard 🔵		My Items Workspace	Guide	Subscriptions		4 ⁹ @ @	\bigcirc
Subscriptions Email Subscriptions				Q Total Files: 1	All Status	+ Subscribe Refre	esh
Name 🜲	Task Status	Scheduling Status		Last Execu	uted At	Acti	ions
金融新聞0113	00 00 01 * * ?	🛛 Sent		4/24/2019	9, 01:00:31	K & 0	ł.

*Subject :	Enter an email subject.				
Header :	r :				
*Body:(t	To ensure that emails can be sent properly, we recommend that the dashboard does not exceed 4,000 pixels in heigh	nend ght, and	Select a workspace. \lor		
t	he workbook has up to 200 rows and 50 columns.)				
	Selected :		Available :		
Footer :					
*Owner :	5094112100153210				
ecurrence :	00 00 01 * * ?	(Curren	tly, the Asia/Shanghai time is used.)		
Start From :	2019-04-24				
Recipients :	Search by keyword.				

4. On the Subscribe page, set the following parameters:

- Subject
- Header: the header of the email.
- Body: the main content of the email, which can be a dashboard or workbook.
 To make sure that the email can be sent properly, we recommend that the

dashboard contains no more than 4,000 pixels in height and the workbook contains no more than 200 rows and 50 columns.

*Body:	dy : (To ensure that emails can be sent properly, we recommend that the dashboard does not exceed 4,000 pixels in height, and the workbook has up to 200 rows and 50 columns.)		DefaultWorkspace	\vee
	Selected :		Available :	٩
	sheet	×	 Table of Contents Dashboards 	
			∧ Workbooks	

- Footer: the footer of the email.
- Owner: the user that creates the email subscription. The owner cannot be changed.
- Recurrence: the frequency for sending emails.

*Recurrence :	00 00 00-00/01 * * ?	(Currently, the Asia/Shanghai time is used.)
*Start From :	Hourly Daily Weekly Monthly	
*Recipients :	Interval (Hours): 01	
	Start At: 00 🗘 : 00 🗘	
	End At: 00 \Diamond :59	

- Start From
- Recipients: only Alibaba Cloud accounts in the same organization are supported. If an account is in the grey color, this means that the account does not have an email address. You must set an email address for the account first.

Note:

You can set an email address for the account in the Personal settings, as shown in the following figure:

🖞 🗘 🔞	o 📀	
	=	
V Quick BI Enterprise Stand	Expires in 4077	
View with DingTalk		
Language	English 🗸	
A Personal		
🗄 Log Out		
Personal Personal	Field Display	×
Email		
Mobile		
	Cancel	OK

5. Click Save to create the email subscription.

7.2 Manage email subscriptions

You can go to the subscriptions page to manage the email subscriptions you have created.

The following operations are all completed on the subscriptions page. Follow these steps to go to the subscriptions page:

- 1. Log on to the Quick BI console
- 2. Click Subscriptions to go to the email subscriptions page.

Task Status

00 00 01 *

Search email subscriptions

Enter an emai	l subscription name into	the search	
subscription.	Subscriptions	Email Subscriptions	
	Name 🜲		
	2 2 R R R R R R R R R R R R R R R R R R		



The following email statuses are available:

- · Pending Schedule
- \cdot Sending
- · Sent
- \cdot Canceled
- Error

Edit email subscriptions

Click the Edit icon to edit an email subscription.

Name 🜲	Task Status	Scheduling Status	Last Executed At	Actions
全局参数0110	00 00 01 * * ?	🛛 Sent	4/24/2019, 01:00:31	<u></u> B 0 1

Manually send emails

Click the Manually Send icon, and set the business date and recipients in the dialog box. This function ignores the email subscription schedule and sends an email immediately. The business time affects the base time depending on which data is collected for building the dashboard.

Manually Send		×	All Status V	+ Subscribe Refresh
St Business Date	2019-04-24		cuted At	
(This field affects the base time depending on which data is collected for building the dashboard.)			19, 01:00:31	2 8 0 :
Recipients 🛈	- International			< 1 >
	Cancel	OK		

Suspend scheduling

Click the Suspend Scheduling icon to suspend an email subscription.

			1	All Status	~	+ Subscribe	Refresh
? Are you sure you want to suspend email subscription?		pend email	Last Execut				
		Cancel OK	4/24/2019,	01:00:31			ð 🕡 :

More actions

Click the More icon to perform the following actions:

- Delete: delete the email subscription.
- Notify: send a notification to the subscription user.
- View log: view the email subscription log as shown in the following figure. You can check the log when the system failed to send emails.

Subscriptions Email Subscriptions			Q Total Files: 1	All Status	× + Subs	🗇 Delete
Name 🜲	Task Status	Scheduling Status	Last Executed At			□ Notify
	00 00 01 ** ?	🥝 Sent	4/24/2019,	01:00:31		E & 0 :