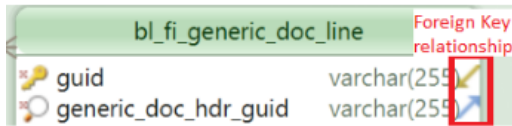
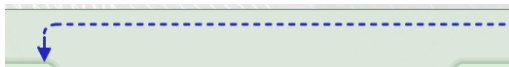


DbSchema guide

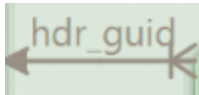
DbSchema Legend



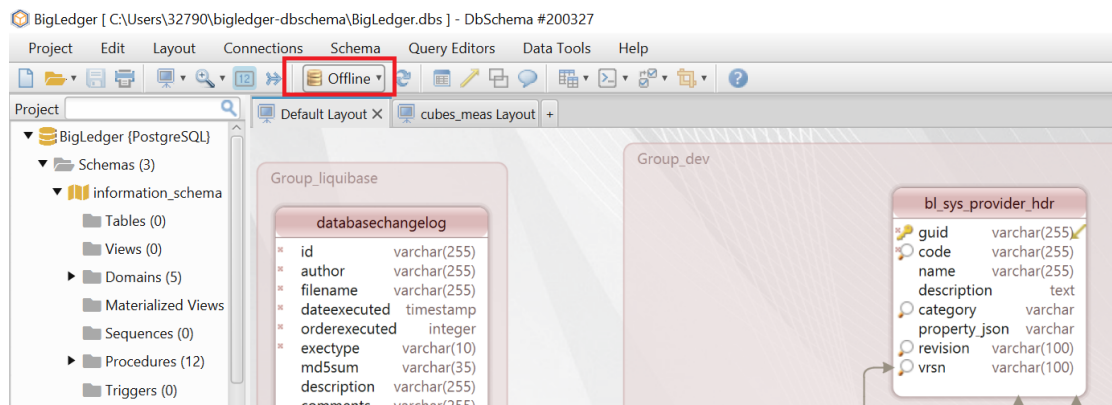
Virtual Foreign Key (dotted line)



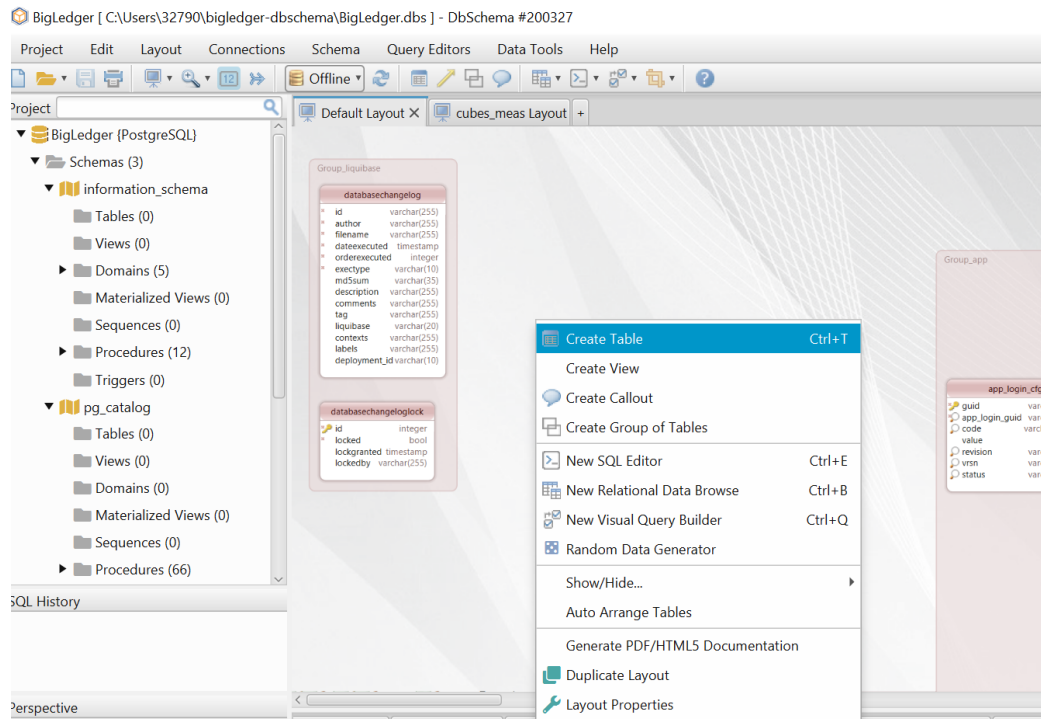
Foreign Key (solid line)



1. **Important Note:** Make sure it is **Offline**, remember to **git pull** first



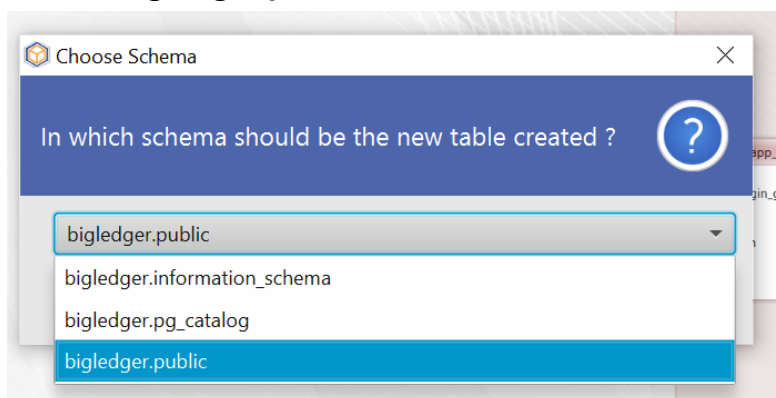
2. Right click on the grey background and Click "Create Table"



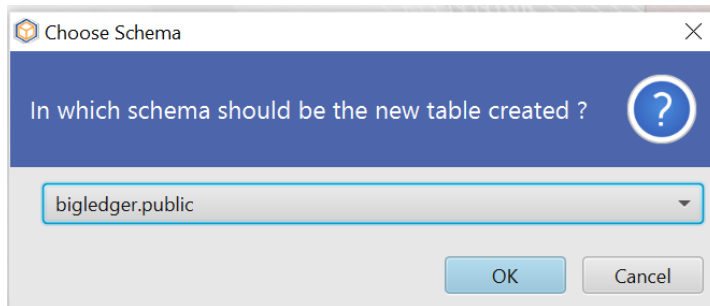
How to create a new table in DbSchema?

Important Note: Please get **approval from Vincent via email** BEFORE creating new tables

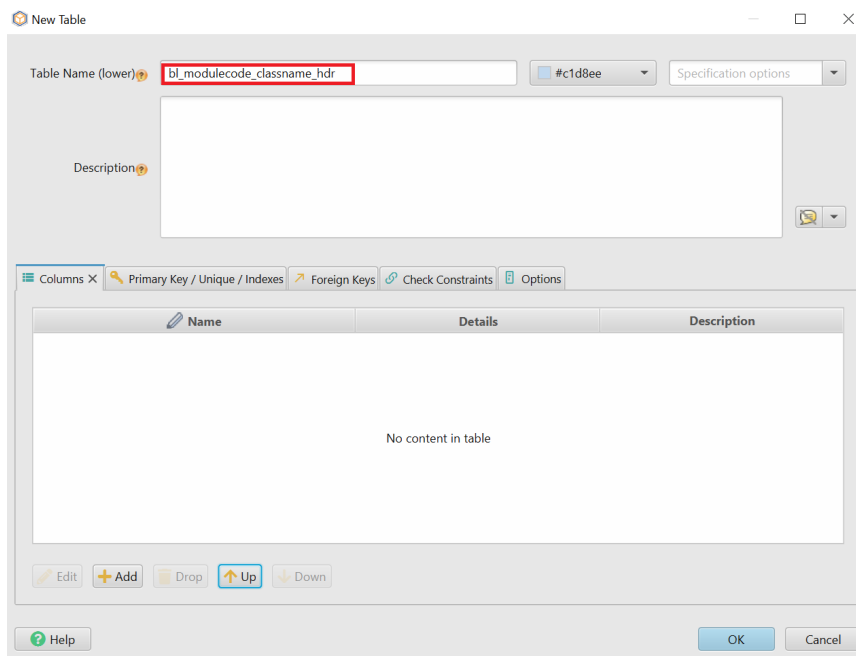
3. Open **DbSchema** (.dbs) file
4. Select **"bigledger.public"**



5. Click “OK”



6. Input the database table name



Note: Please follow the database table name:
bl_<module-code>_<classname>_<table-type>

For example:

bl_fi_mst_item_hdr

bl_fi_mst_item_line

bl_fi_mst_item_ext

7. To add the columns
Click **“Add”**

The screenshot shows the 'New Table' dialog box. At the top, the 'Table Name (lower)' field is populated with 'bl_modulecode_classname_hdr'. Below it is a large empty 'Description' text area. A tabbed interface at the bottom shows the 'Columns' tab selected. This tab contains a table with three columns: 'Name', 'Details', and 'Description'. The table is currently empty, with the text 'No content in table' centered. At the bottom of the 'Columns' tab, there are five buttons: 'Edit', 'Add', 'Drop', 'Up', and 'Down'. The 'Add' button is highlighted with a red rectangular box. At the very bottom of the dialog, there are 'Help', 'OK', and 'Cancel' buttons.

8. Add the column details
Click **“OK”**

New Column in Table public.bl_modulecode_classname_hdr

Name (lower)

Description

Data Type Other

Precision Decimal

☒ Primary Key ☒ Mandatory (Not Null) ☐ Unsigned

Default

Note: for all the database tables, **applet_guid**, **module_guid**, **namespace**, **vrnsn**, **status**, **revision** fields are compulsory

9. The created column will be shown in the **“Columns”** tab
Repeat Step 7 to add more fields, then **Click “OK”** once all the fields are added.

New Table

Table Name (lower): #c1d8ee Specification options

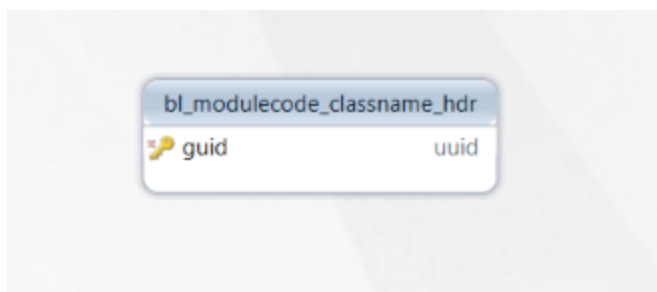
Description:

Columns X Primary Key / Unique / Indexes Foreign Keys Check Constraints Options

Name	Details	Description
guid	uuid not null	

Once all the columns are added then Click "OK"

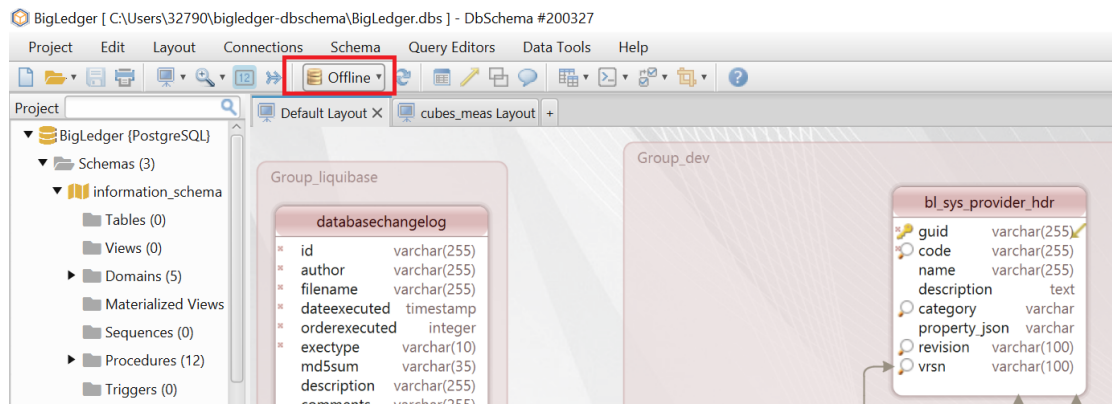
10. The table is created



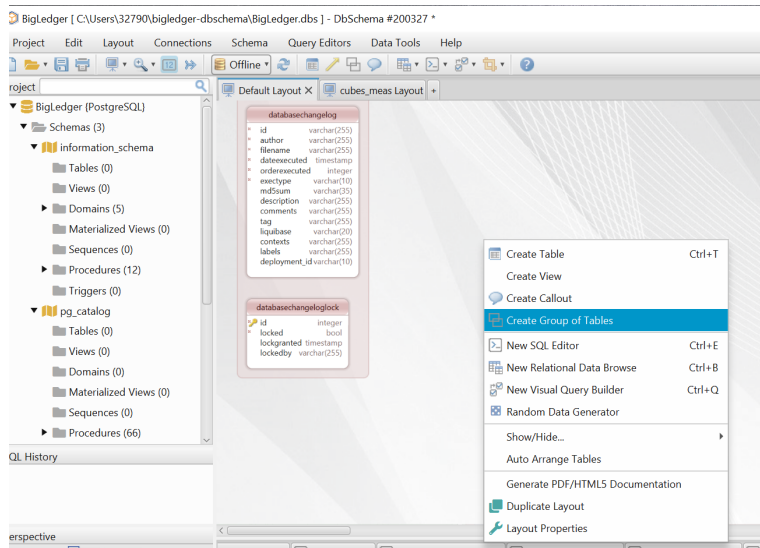
How to create a new Group and include tables?

Important Note: Please get **approval from Vincent via email** BEFORE creating new Group and include tables

1. **Important Note:** Make sure it is **Offline**, remember to git pull first



2. **Right click on the grey background and Click “Create Group of Tables”**



3. **Input the Group name**

Group name format: Group_<name>

For example:

Group_crm

Group_app

New Group

Group Name

Color ☐ Overwrite Tables Header Col...

Description

Tables & Views

Tables In No Group

Type to filter

bl_modulecode_classname_hdr

☐ Show Schema Na...

Current Group Tables

Type to filter

4. Select the column and Click “Include”

New Group

Group Name

Color ☐ Overwrite Tables Header Col...

Description

Tables & Views

Tables In No Group

Type to filter

bl_modulecode_classname_hdr

☐ Show Schema Na...

Current Group Tables

Type to filter

5. Click “OK”

New Group

Group Name: Group_modulecode

Color: #c4e0f9 ☐ Overwrite Tables Header Col...

Description:

Tables & Views

Tables In No Group

Type to filter

Current Group Tables

Type to filter

bl_modulecode_classname_hdr

> Include < Exclude

☒ Select All ☐ Show Schema Na...

OK Cancel

6. The table successfully included in the Group

Group_modulecode

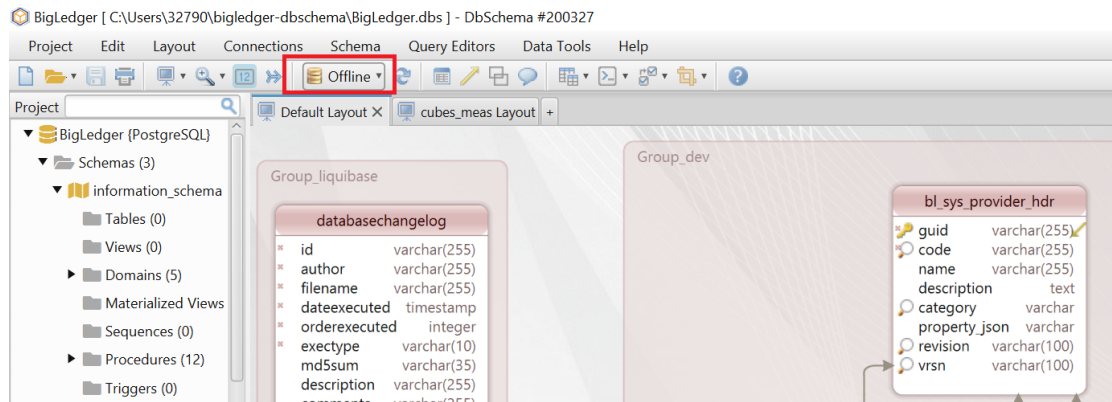
bl_modulecode_classname_hdr

guid uuid

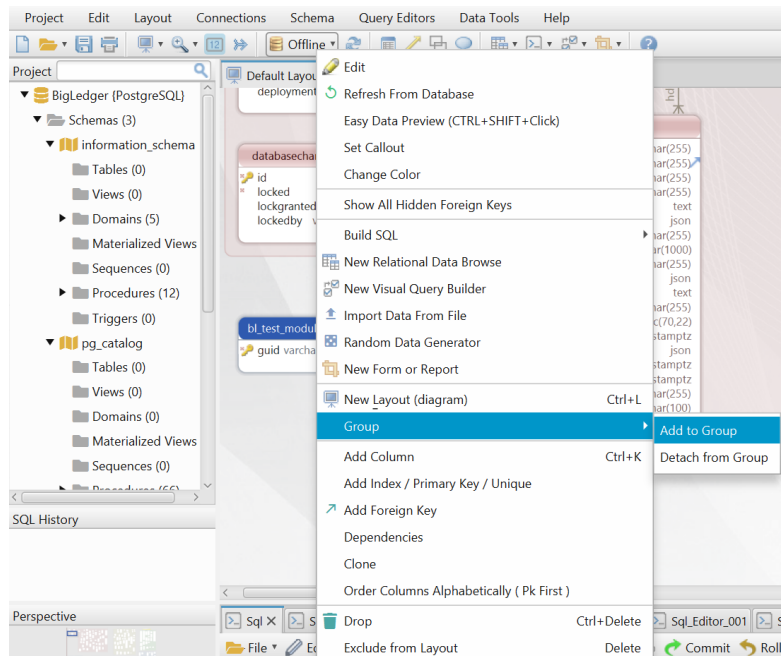
How to add tables into a particular Group?

Important Note: Please get approval from Vincent via email BEFORE adding tables to respective group

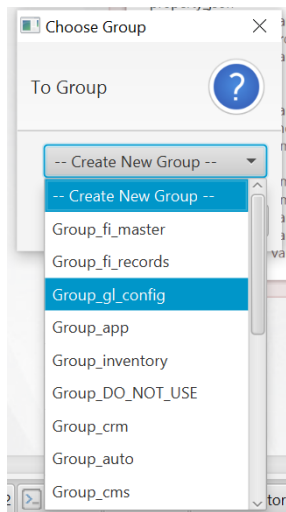
1. **Important Note:** Make sure it is **Offline**, remember to git pull first



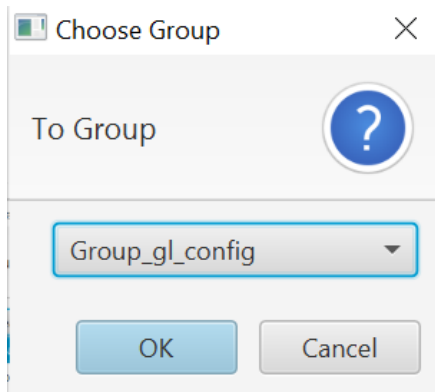
2. **Right click on the table header > Click “Group” > Click “Add to Group”**



3. Select the respective group (eg. Group_gl_config)



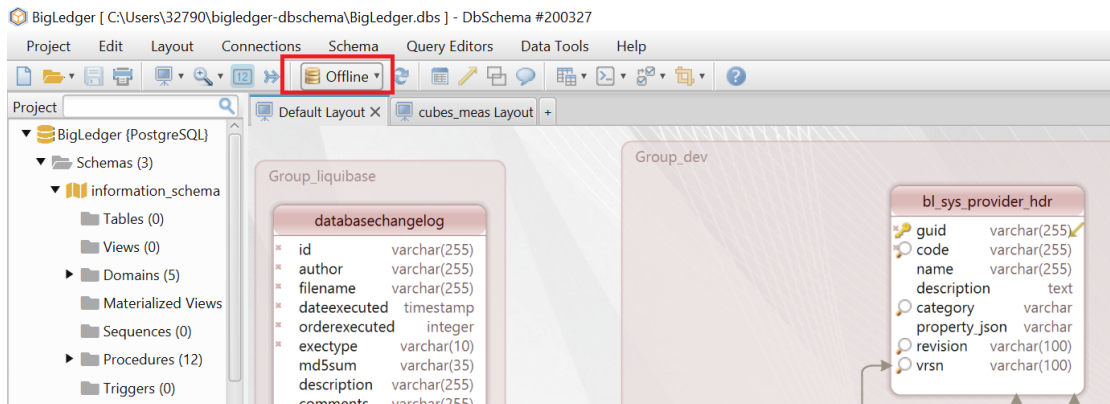
4. After selecting the respective Group, Click “OK”



How to modify a table?

Important Note: Please get **approval from Vincent via email** BEFORE modifying the table

1. **Important Note:** Make sure it is **Offline**, remember to git pull first

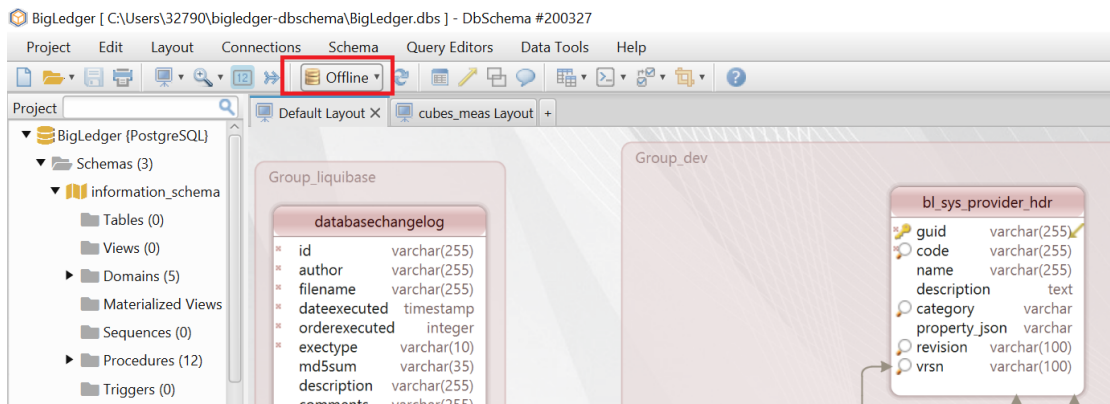


2. **Double click** on the table / **Right Click** and **Click “Edit”**
3. Edit the fields
4. **Click “OK”**

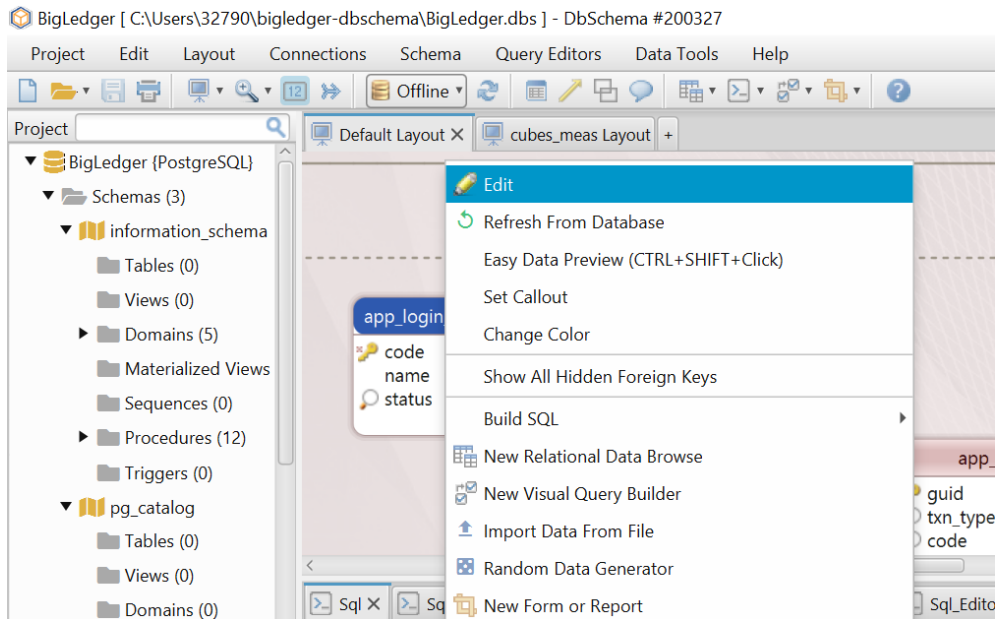
How to modify an attribute?

Important Note: Please get **approval from Vincent via email** BEFORE modifying the attribute

1. **Important Note:** Make sure it is **Offline**, remember to git pull first



2. Double click on the title of the table / Right Click and Click “Edit”

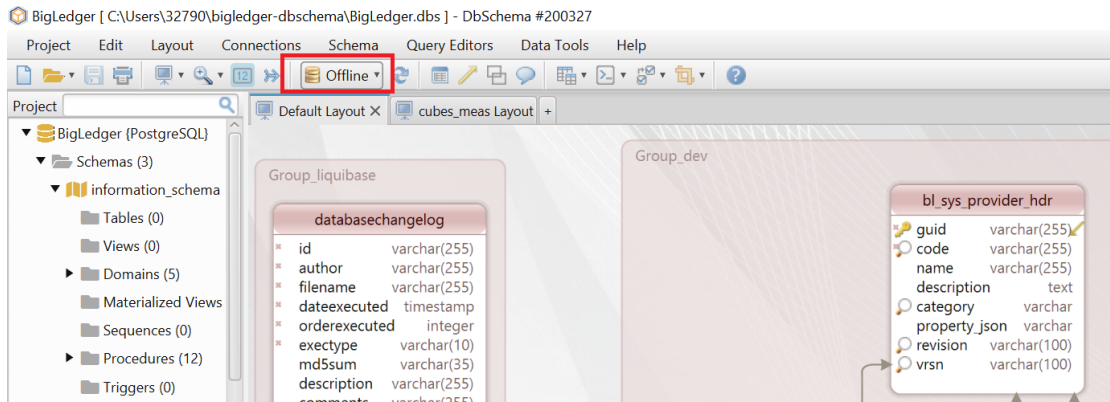


3. Edit the fields

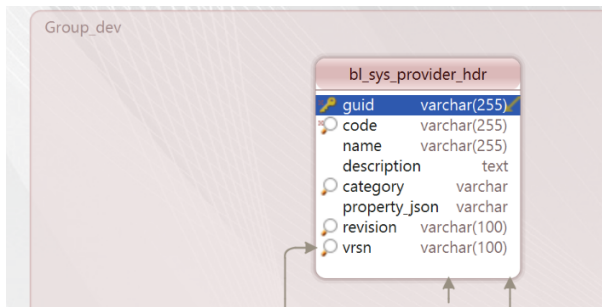
4. Click “OK”

How to add / edit description?

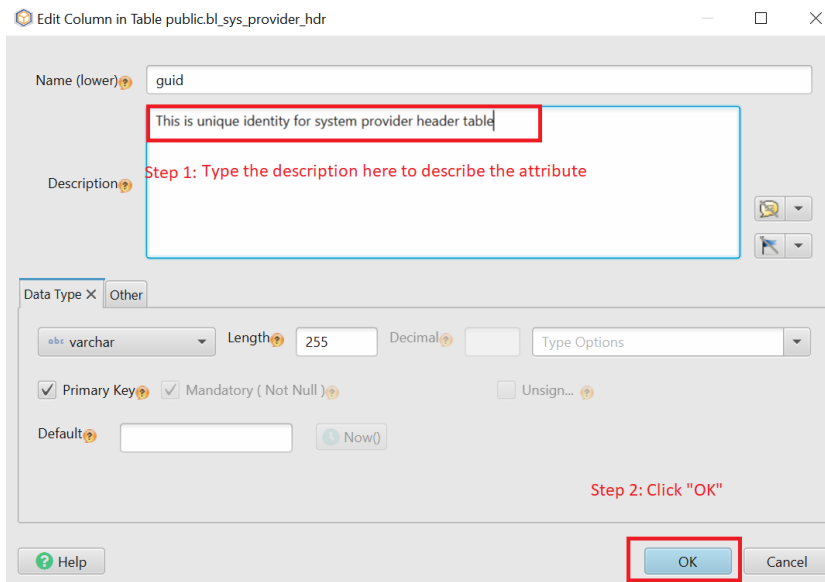
1. **Important Note:** Make sure it is **Offline**, remember to git pull first



2. Double click on the specific field (eg. guid)



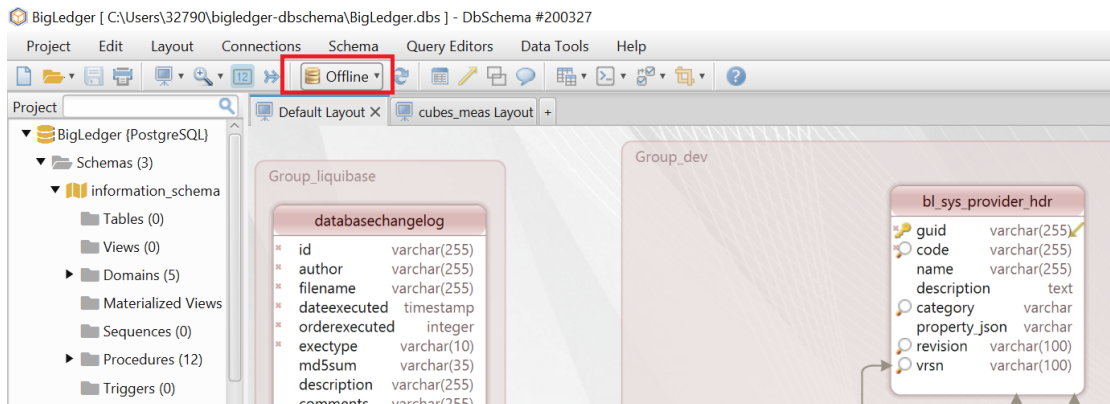
3. Follow the steps below as shown in the diagram (Step 1-2)



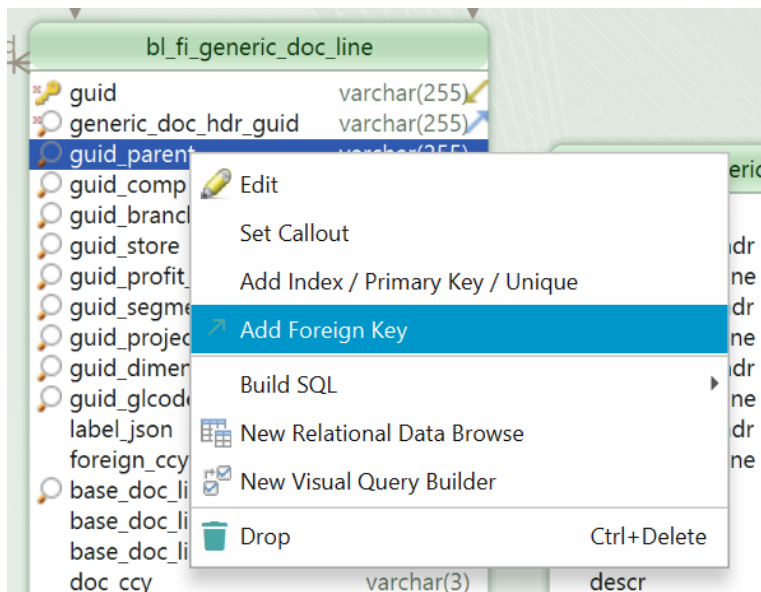
How to add Foreign Key for the specific attribute?

Important Note: Please get approval from Vincent via email BEFORE adding the Foreign Key

1. **Important Note:** Make sure it is **Offline**, remember to git pull first



2. **Right click** on the specific attribute
3. Click **“Add Foreign Key”**



4. Follow the steps in the diagram below (Step 1-3)

The screenshot shows the 'New Foreign Key' dialog box. The 'Name (lower)' field contains 'fk_bl_fi_generic_doc_line'. The 'Description' field is empty. The 'Definition' tab is selected. The 'Table public.bl_fi_generic_doc_line references' section shows 'Schema' set to 'bigledger.public' and 'Table' set to 'app_generic_resources_line'. The 'From Column' and 'To Column' table is empty. The 'Add' button is highlighted. The 'On Delete' and 'On Update' dropdowns are set to 'noAction'. The 'Virtual (only in DbSchema)' checkbox is unchecked.

Step 1: Select "bigledger.public"

Step 2: Select the Foreign Key table

Step 3: Click "Add"

5. Follow the steps in the diagram below (Step 1-3)

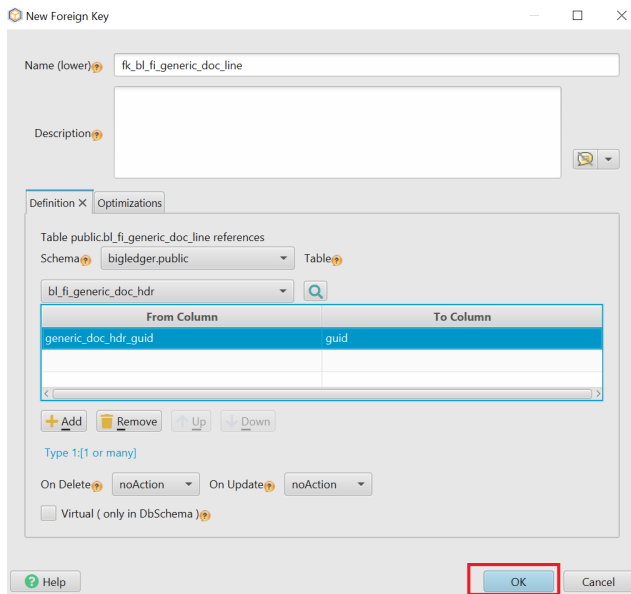
The screenshot shows the 'Column Selection' dialog box. The title bar says 'Column Selection'. The main text says 'Choose a pair of columns (referring, referred) to add.' The 'Table public.bl_fi_generic_doc_line Column' section shows 'generic_doc_hdr_guid' selected. The 'REFERENCES' section shows 'Table public.bl_fi_generic_doc_hdr Column' with 'guid' selected. The 'OK' button is highlighted.

Step 1: Select the attribute

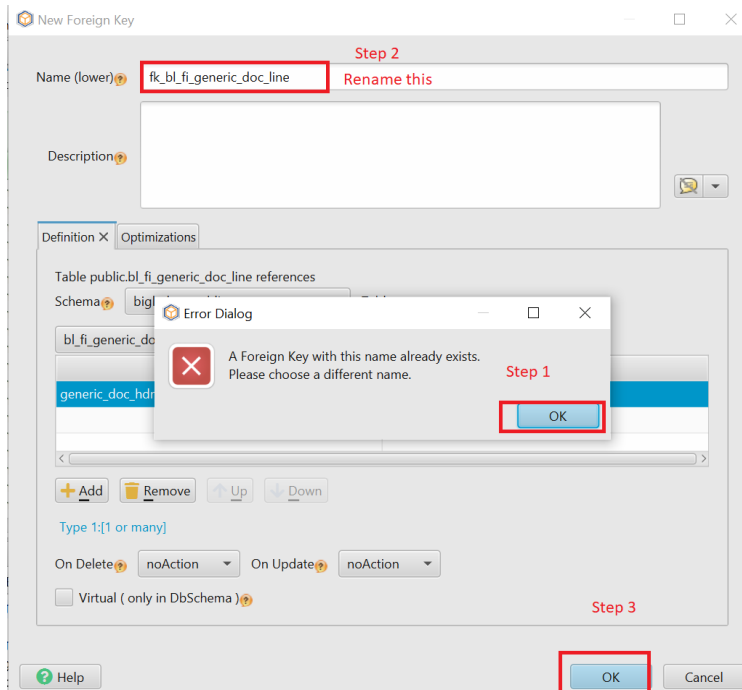
Step 2: Select the attribute

Step 3: Click "OK"

6. Click “OK”



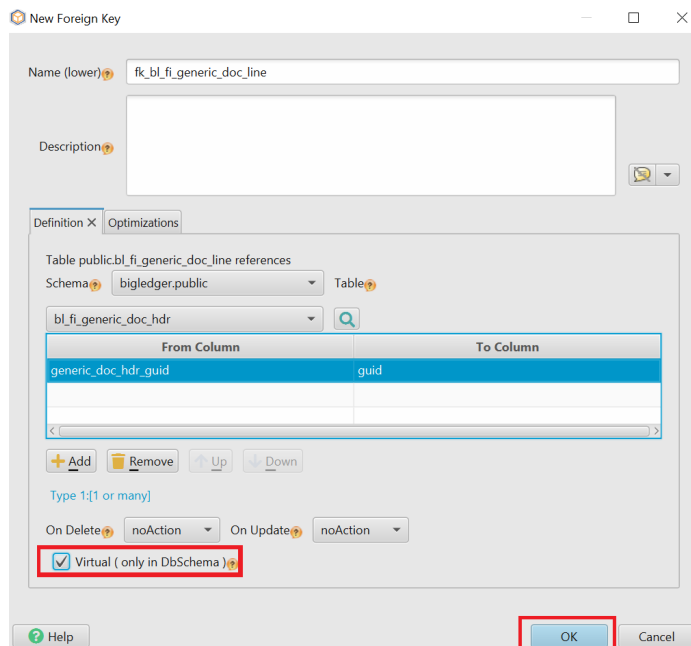
If you get this error, follow the steps in the diagram below (Step 1-3)



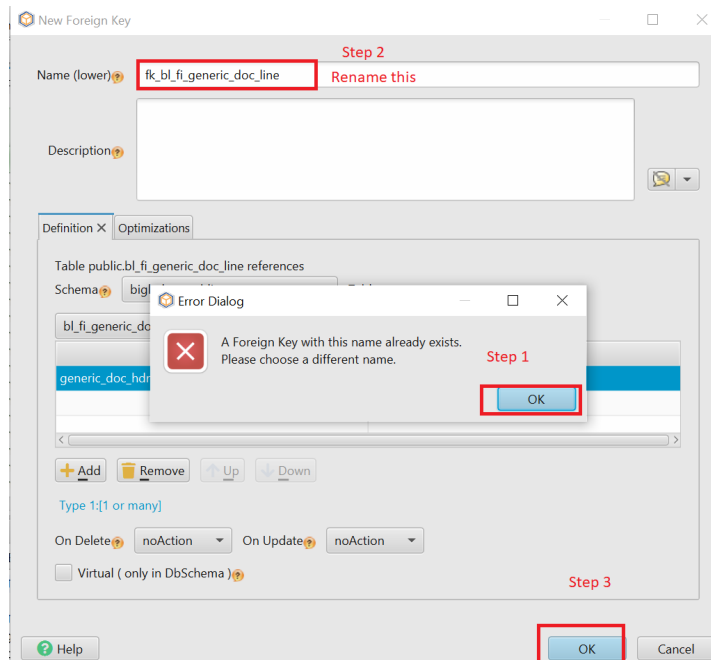
How to add Virtual Foreign Key for the specific attribute?

Important Note: Please get approval from Vincent via email BEFORE adding the Virtual Foreign Key

1. Follow Step 1-5 for **How to add Foreign Key for the specific attribute?**
2. Check **“Virtual (only in DbSchema)”** and Click **“OK”**



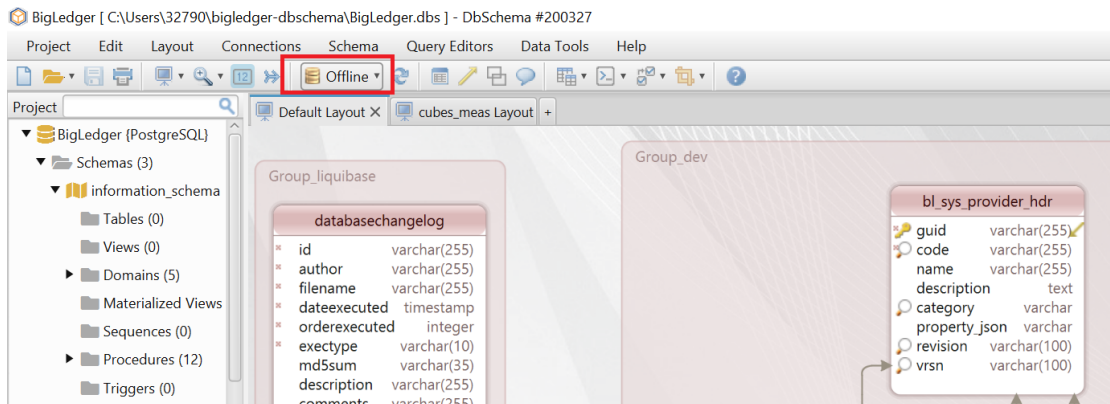
If you get this error, follow the steps in the diagram below (Step 1-3)



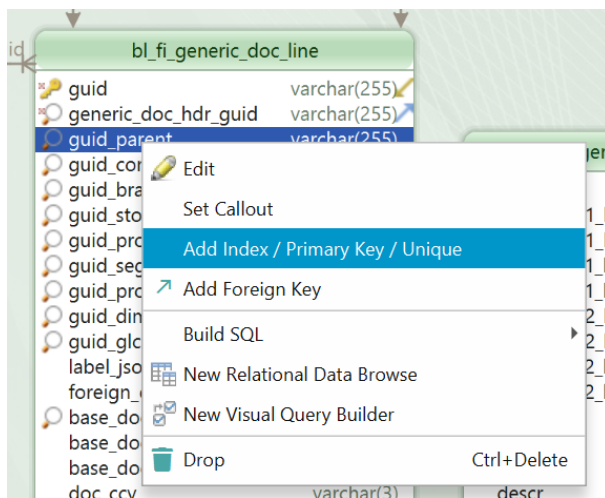
How to add Index for specific attribute?

Important Note: Please get approval from Vincent via email BEFORE adding the Index

1. **Important Note:** Make sure it is **Offline**, remember to git pull first



2. **Right click** on specific attribute (eg. guid parent)
3. Click **“Add Index/ Primary Key / Unique”**



4. Click “OK”

Create Index on Table bl_fi_generic_doc_line

Name: idx_bl_fi_generic_doc_line_guid_parent_0 Specification options

Type: ☐ Primary Key ☐ Unique ☒ Normal

Description:

Columns	Options (editable)
guid_parent	

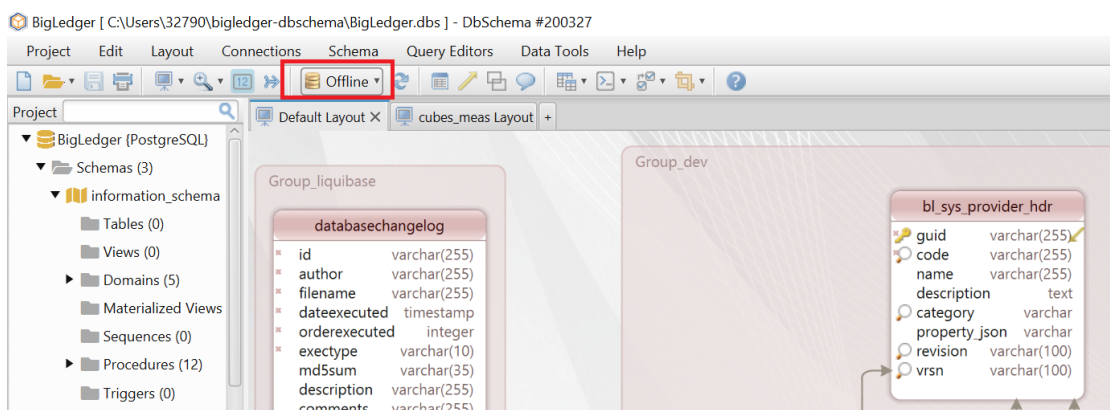
+ Add - Remove Up Down

Options

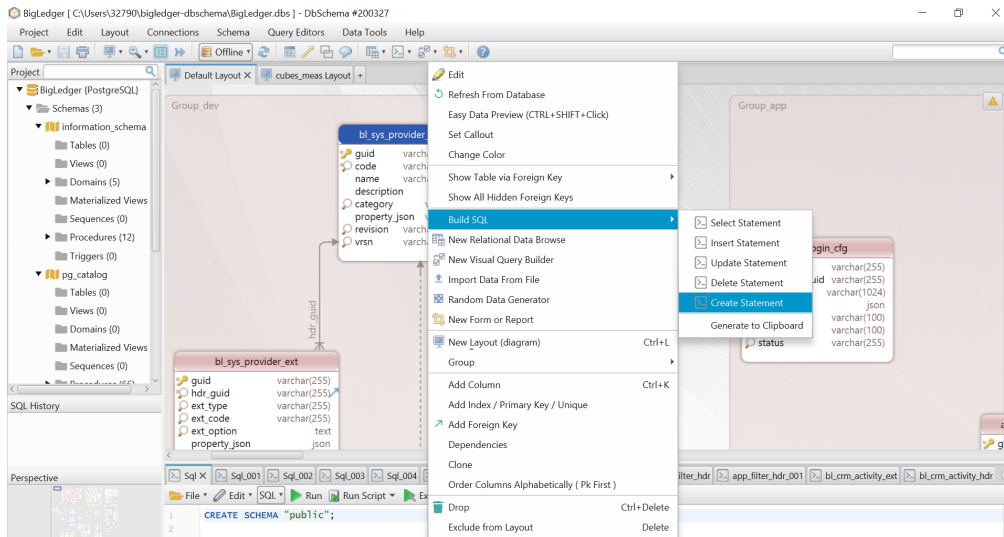
Help OK Cancel

How to generate SQL script from DbSchema table?

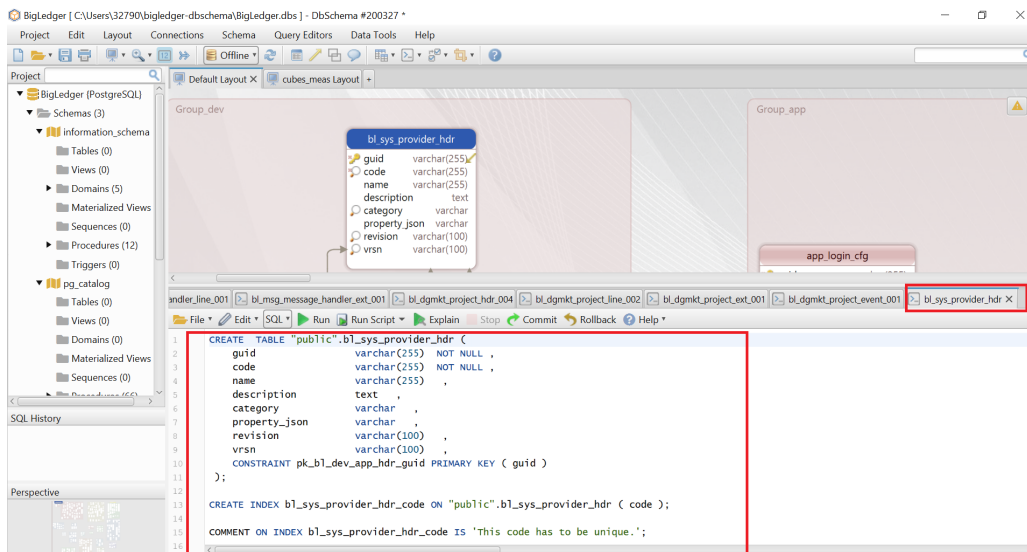
1. **Important Note:** Make sure it is **Offline**



2. Right click on the selected table > Select **“Build SQL”** > Select **“Create Statement”**



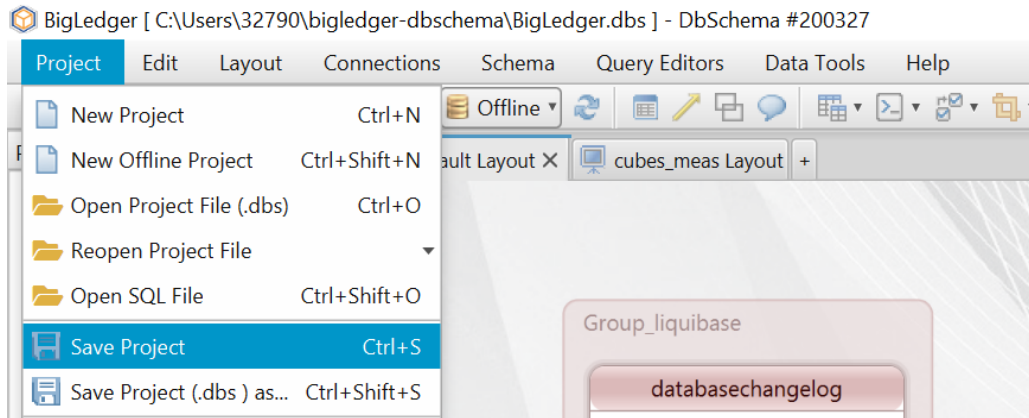
3. SQL script for Create Statement for bl_sys_provider_hdr shown below



4. Copy the SQL script and save it in Notepad / Google Docs (it is required when you need to add in liquibase in Java) - Remember to remove **“public”**.

How to update the Dbschema in bigledger-dbschema ?

1. **Save** the file (e.g. BigLedger.dbs)



2. Use Git Bash - follow the instructions of git push

<https://docs.google.com/document/d/1uo63TdQ7PE5iO3g207kjXvZ6xq9Odx-t4GNxZKamQ/edit>