

How to update database schema diagram

The schema database diagram in documentation ([Storage Layer#RDBMS/DatabaseStructure](#)) is created using [DbSchema](#) (15-day free trial available).

During major DSpace version changes, the schema usually changes too. This page details the procedure to update the schema and generate the image to be included in documentation as part of the release procedure.

Connect to DSpace database

1. menu Project -> New Project Connected to Database (Ctrl-N)
2. Rdbms: Postgres
3. Fill in Host name, Port, User, Password, Database name
4. Connect
5. Select the "public" schema
6. A default layout will be generated

Add tables to groups

1. Right-click on empty background and choose "Create group of tables" from the context menu
2. Fill in group name as per key below (hierarchy, items, ...)
3. Check "Override Tables Header Color"
4. Click on color picker, RGB tab, fill in Color Code as per key below (ECE3C3, C3ECE3, ...), click OK
5. Back in "New group" dialog, include tables from "Tables In No Group" to "Current Group Tables" as per key below
6. Click OK

Group: hierarchy Color: ECE3C3

```
community
community2community
community_item_count
communities2item
community2item
community2collection
collection
collection2item
collection_item_count
harvested_collection
```

Group: items Color: C3ECE3

```
item
harvested_item
requestitem
tasklistitem
versionitem
workspaceitem
workflowitem
versionhistory
```

Group: bundles and bitstreams Color: ECC6C3

```
bundle
bundle2bitstream
bitstream
bitstreamformatregistry
fileextension
item2bundle
most_recent_checksum
checksum_results
checksum_history
```

Group: epersons and groups Color: CBECC3

eperson
epersongroup
epersongroup2eperson
epersongroup2workspaceitem
group2groupcache
group2group
registrationdata

Group: metadata Color: C3C7EC

metadataschemaregistry
metadatafieldregistry
metadatatypevalue
dcvalue

Group: identifiers Color: C4E0F9

handle
doi

Rearrange groups and tables

Keep the main hierarchy horizontal (community, collection, item, bundle, bitstream and their mappings)

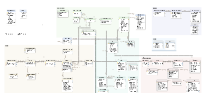
Export

1. Project -> Export as... -> PNG Image
2. Crop excessive white background in an image editor
3. `optipng -o9 dspace5.png`

Examples

Example exported image:

DSpace 5 schema in DbSchema's editable .dbs format: [dspace5.dbs](#)



DSpace 6 schema in DbSchema's editable .dbs format: [dspace6.dbs](#)

