

How to create the sample tables in the database.

Download databases-absalon.zip

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Unzip file (folder databases)

Note that originally database scripts for various examples, including examples from the book, were developed for the Oracle database. We have adapted those scripts, where a '_p' file is adjusted for PostgreSQL. By comparing scripts for different databases, you can see that the changes are minor (which is a win for SQL ;-)).

In order to create tables in PostgreSQL, we recommend to assign them to a separate database (otherwise, you will just operate on the default one). If you want to skip this step and go install the scripts to one of the two default databases this is just as relevant. When using a fresh Postgres installation two database instances are created at default: postgres and <user name>. You need to know the authentication details for the database instance selected: database, login-role/user, password and substitute where relevant in the following.

You can create a database for UIS as follows:

```
$ psql
```

```
--AL20161211
-- removing
--DROP DATABASE uis;
-- User: uis
--DROP ROLE IF EXISTS uis;

CREATE USER uis WITH PASSWORD 'uis';

-- Database: uis
CREATE DATABASE uis;
COMMENT ON DATABASE uis IS 'Development of Information Systems (UIS) Sample databases';

-- User privileges
GRANT CONNECT, TEMPORARY ON DATABASE uis TO public;
GRANT ALL ON DATABASE uis TO uis;
```

Given that you have PostgreSQL installed and a database/role created, psql can be used in folder databases with the `-f` option for every script. For example, the movie database can be installed to your schema by going to the folder databases->movie-> movie-database and run psql from there.

To run the scripts, you may proceed as follows:

```
$ cd databases/movie/movie-database
$ psql -d uis -U uis -f movie_schema_p.sql -W
```

Or execute psql and run the file

```
$ psql -d uis -U uis -W
=> \i movie_schema_p.sql
```

from here you can list tables or other stuff using SQL and when you are finished you can quit

```
=> \q
$
```

Listing tables in the schema

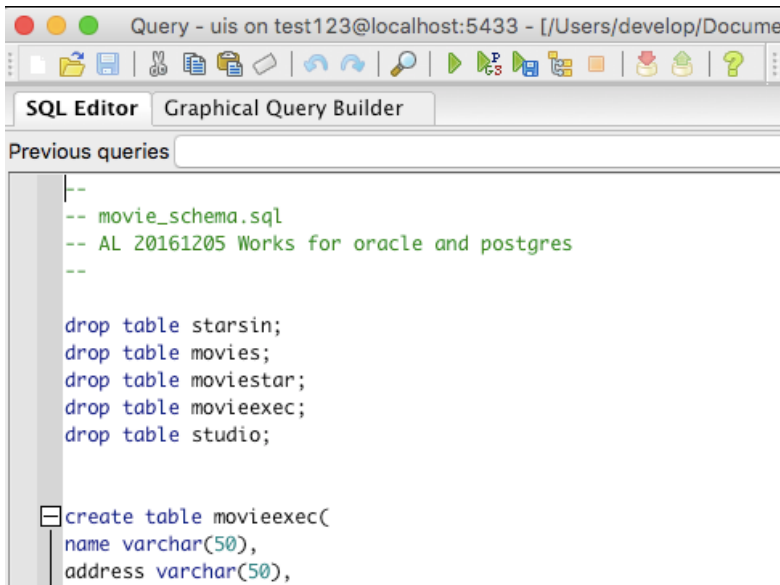
```
SELECT table_name as table FROM information_schema.tables WHERE table_type = 'BASE TABLE'
AND table_schema NOT IN ('pg_catalog', 'information_schema');
```

It is also useful to learn psql commands as shortcuts.

You can also connect to the server in PGADMIN3. Open a connection to your server, then drill down to databases->uis->schemas->your user. Press big SQL-button (this opens a worksheet operating on your schema)), and open the file 'movie_schema_p.sql'. Open the script and press pgsqlexecute-script button:



You should get errors from dropping tables not yet created, but the rest of the script will run (inspect the messages pane).



You can open a second shell and confirm that the tables are available through psql, if you wish.

Selecting sample database schemas

Necessary database schemas	
Airline	Text book
movie	Text book
pc	Text book
ships	Text book

How to view sample tables in public schema

Inspect and modify using the following SQL to list tables.

```
SELECT table_schema, table_name FROM information_schema.tables WHERE table_type = 'BASE
TABLE' AND table_schema NOT IN ('pg_catalog', 'information_schema');
```

Further questions and troubleshooting

If you run into trouble, ask you TA!