

Practical Course "Web Technologies"

Exercises 7

This exercise will give you practice using Django's object-relational mapping.

Exercise 7.1.

- a. Download and install the database SQLite.
Follow instructions on <https://www.sqlitetutorial.net/download-install-sqlite/>.
- b. Download SQLite Sample Database Chinook on <https://www.sqlitetutorial.net/sqlite-sample-database/>.
Unpack zip-archive to the directory of your Django-project and rename the file to chinook.sqlite3.
- c. Install VSC-extension SQLiteViewer and open chinook.sqlite3 for a first glance.
- d. Update `settings.py`:
 - extend list `INSTALLED_APPS`: refer to configuration function in `apps.py`
 - configure list `DATABASES` by: `'NAME': BASE_DIR / 'chinook.sqlite3'`
- e. Test your web-app.

Exercise 7.2.

- a. Formulate model classes for the tables Artists und Album.
- b. Perform migrations
 - Python `manage.py makemigrations`
which is responsible for creating new migrations based on the changes you have made to your models
 - `migrate`, which is responsible for applying and unapplying migrations

Exercise 7.3.

- a. Extend your index-view by
 - retrieving all artists whose names start with 'A'
 - listing the names of the artist and the number of albums in `index.html`