

PROGDB'20

TD 3 : Object-Relational Mappers and Importing Bulk Data

During this exercise you will import movie data from an XML file to an SQL database using an ORM interface. You will define a data model using PonyORM to interface with a relational database. Then you will implement a SAX handler to import data from an XML file to the database. Naturally, the aim of this exercises is to import the data with a reasonably small main memory footprint (thus using SAX). The XML file `imdb.xml` follows the DTD in `imdb.dtd` and the schema of the goal database is in `imdb.sql`.

You are to submit a ZIP archive containing the Python files `model.py` and `import.py`. The first file should create the data model using PonyORM and create an empty SQLite database in `/tmp/imdb.db`. The second file is to perform the import of the contents of the XML is accessible at the path `/tmp/imdb.xml`. It is only the second file `import.py` that will be executed during the evaluation of your submission (and thus the data model file `model.py` should be imported in `import.py`).