Database Systems Assignment User Guide

Olympics 2024 Data

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Wednesday 2-4pm Lab

Creating the database

To do the assignment I hosted a MySQL server locally (ver 8.0.39) on a Windows 11 machine (I know it is supposed to be Linux) to test some things as the Curtin Linux systems don't provide permission to create a database and other certain tasks. For the sake of the assignment submission, I changed everything to work on the Curtin Linux systems and SQL server.

This means that the python scripts and other resources use

- User: me
- Password: myUserPassword
- Host: localhost
- Database: dswork

These instructions will assume you have a database called dswork with these login credentials and is hosted locally.

All of the following commands assume your terminal is in the root directory of the project (where you can see all the folders such as py_scripts and sql_scripts from).

Creating the tables

To create the tables, run sql_scripts/tables.sql in the dswork database.

```
SOURCE sql_scripts/tables.sql
```

Creating the triggers and stored procedures

To create the triggers and stored procedures, run sql_scripts/triggers.sql and sql_scripts/stored_procedures.sql

```
SOURCE sql_scripts/triggers.sql
SOURCE sql_scripts/stored_procedures.sql
```

This is important to do now as when inserting the data, one of the triggers is used.

Inserting the data

A python script is used to insert the data from the csv files stored in the data folder. A version of mysql connector for python is required (the same as taught in the unit).

To run the script:

```
python3 py_scripts/insert_data.py
```

Queries

To test the queries I have made, just copy paste the commands as you wish from sql_scripts/queries.sql. They are all commented and labeled.

Be mindful I haven't included a limit on the result size and some will return thousands of entries so feel free to put one on the commands.

Python Scripts

To use any of the python scripts (except insert_data.py) just run them at any stage after this point. They are simple and easy to understand if you open any of them in py_scripts.

```
python3 py_scripts/pick_one_of_them.py
```