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Database Dev & Use
Module 6.2 Assignment:
Movies – Set up

GitHub Link: <https://github.com/iRegretn0thing/csd-310.git>

**Activating the database and running the initialization
script provided by Professor Sampson
(Parts 1 – 3)**

```
mysql> use movies
Database changed
mysql> /*
/*> Title: db_init_2022.sql
/*> Author: Professor Sampson
/*> Date: 1 Aug 2022
/*> Description: movies database initialization script.
/*> */
mysql>
mysql> -- drop database user if exists
mysql> DROP USER IF EXISTS 'movies_user'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
mysql> -- create movies_user and grant them all privileges to the movies database
mysql> CREATE USER 'movies_user'@'localhost' IDENTIFIED WITH mysql_native_password BY 'popcorn';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql> -- grant all privileges to the movies database to user movies_user on localhost
mysql> GRANT ALL PRIVILEGES ON movies.* TO 'movies_user'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql>
mysql>
mysql> -- drop tables if they are present
mysql> DROP TABLE IF EXISTS film;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE IF EXISTS studio;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE IF EXISTS genre;
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql>
mysql> -- create the studio table
mysql> CREATE TABLE studio (
-> studio_id INT NOT NULL AUTO_INCREMENT,
-> studio_name VARCHAR(75) NOT NULL,
->
-> PRIMARY KEY(studio_id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> -- create the genre table
```

```
MySQL 8.0 Command Line Cli X + v
mysql> CREATE TABLE genre (
->     genre_id      INT          NOT NULL          AUTO_INCREMENT,
->     genre_name    VARCHAR(75)  NOT NULL,
->
->     PRIMARY KEY(genre_id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> -- create the film table and set the foreign key
mysql> CREATE TABLE film (
->     film_id      INT          NOT NULL          AUTO_INCREMENT,
->     film_name    VARCHAR(75)  NOT NULL,
->     film_releaseDate VARCHAR(5)  NOT NULL,
->     film_runtime INT NOT NULL,
->     film_director VARCHAR(75) NOT NULL,
->     studio_id INT NOT NULL,
->     genre_id INT NOT NULL,
->
->     PRIMARY KEY(film_id),
->
->     CONSTRAINT fk_studio
->     FOREIGN KEY(studio_id)
->         REFERENCES studio(studio_id),
->
->     CONSTRAINT fk_genre
->     FOREIGN KEY(genre_id)
->         REFERENCES genre(genre_id)
-> );
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql>
mysql> -- insert studio records
mysql> INSERT INTO studio(studio_name)
->     VALUES('20th Century Fox');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO studio(studio_name)
->     VALUES('Blumhouse Productions');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO studio(studio_name)
->     VALUES('Universal Pictures');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> -- insert genre records
mysql> INSERT INTO genre(genre_name)
```

```
mysql>
mysql> -- insert genre records
mysql> INSERT INTO genre(genre_name)
-> VALUES('Horror');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO genre(genre_name)
-> VALUES('SciFi');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO genre(genre_name)
-> VALUES('Drama');
Query OK, 1 row affected (0.00 sec)

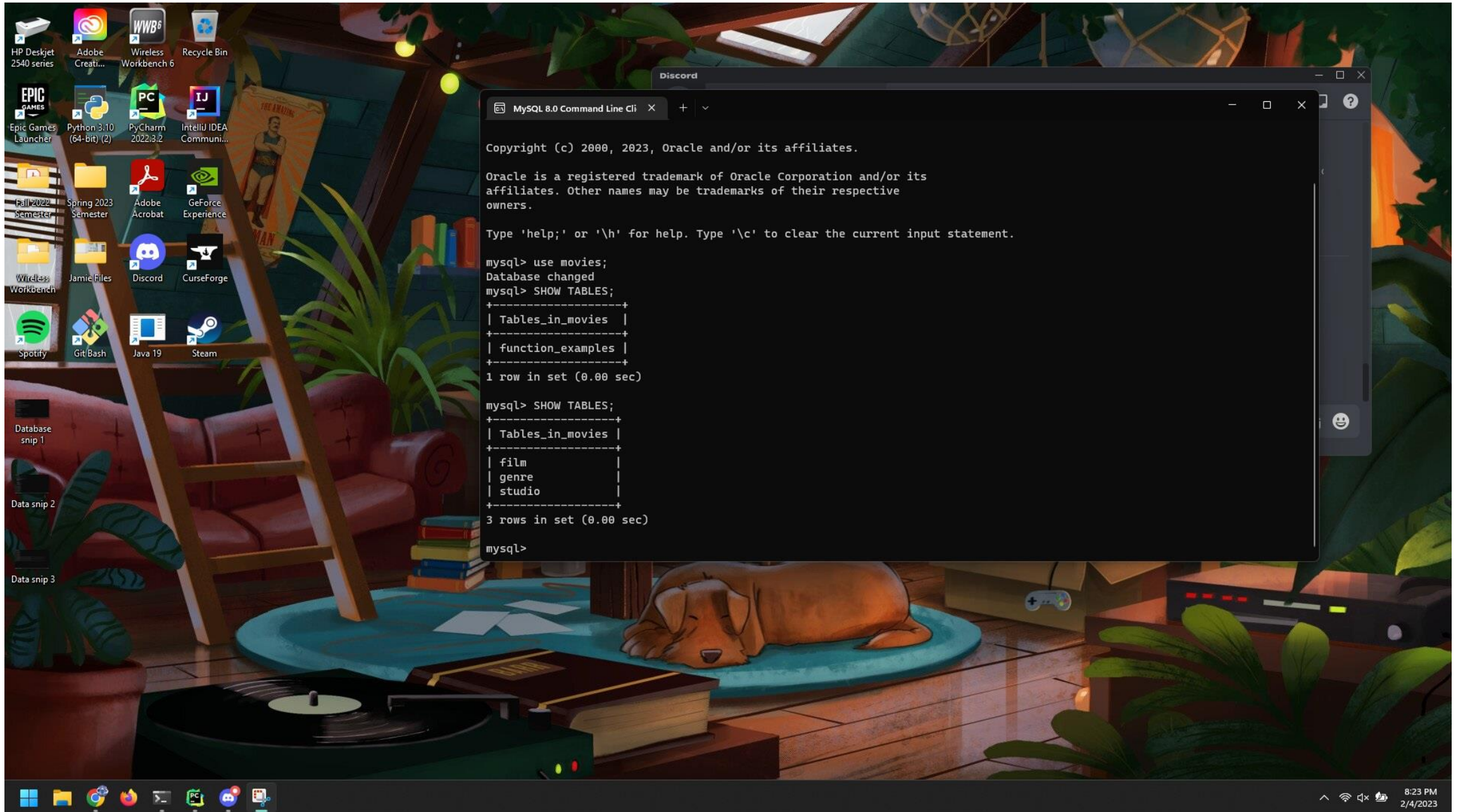
mysql>
mysql> -- insert movie records
mysql> INSERT INTO film(film_name, film_releaseDate, film_runtime, film_director, studio_id, genre_id)
-> VALUES('Gladiator', '2000', '155', 'Ridley Scott', (SELECT studio_id FROM studio WHERE studio_name = 'Universal Pictures'),(SELECT genre_id FROM genre WHERE genre_name = 'Drama') );
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO film(film_name, film_releaseDate, film_runtime, film_director, studio_id, genre_id)
-> VALUES('Alien', '1979', '117', 'Ridley Scott', (SELECT studio_id FROM studio WHERE studio_name = '20th Century Fox'),(SELECT genre_id FROM genre WHERE genre_name = 'SciFi') );
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO film(film_name, film_releaseDate, film_runtime, film_director, studio_id, genre_id)
-> VALUES('Get Out', '2017', '104', 'Jordan Peele', (SELECT studio_id FROM studio WHERE studio_name = 'Blumhouse Productions'),(SELECT genre_id FROM genre WHERE genre_name = 'Horror') );
Query OK, 1 row affected (0.02 sec)

mysql>
mysql>
```


Displaying the tables located in the movie database via the SHOW TABLES command. I changed them in workbench to better match the module's content.



Database connection program, the script being provided in the module. It is being run through PyCharm.

The screenshot displays the PyCharm IDE interface. The top toolbar includes icons for File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The main editor window shows a Python script named `db_init_2022 (1).sql` with the following code:

```
1 try:
2     db = mysql.connector.connect(**config)
3     print("\n Database user {} connected to MySQL on host {} with database {}".format(config["user"], config["host"], config["database"]))
4     input("\n\n Press any key to continue...")
5 except mysql.connector.Error as err:
6     if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
7         print(" The supplied username or password are invalid")
8     elif err.errno == errorcode.ER_BAD_DB_ERROR:
9         print(" The specified database does not exist")
10    else:
11        print(err)
12 finally:
13    db.close()
```

The bottom panel shows the Run output for `db_init_2022 (1).sql`:

```
[2023-02-04 20:35:09] Connecting to @localhost... (movies)
[2023-02-04 20:35:09] Using batch mode, maximum number of INSERT/UPDATE/DELETE statements is 1000
[2023-02-04 20:35:09] Run C:\Users\qymae\Downloads\db_init_2022 (1).sql
[2023-02-04 20:35:09] Summary: 0 of 0 statements executed in 8 ms (0 symbols in file)
```

The status bar at the bottom indicates the summary: "Summary: 0 of 0 statements executed in 8 ms (0 symbols in file) (a minute ago)". The right sidebar shows the Database and ScriptView tabs.