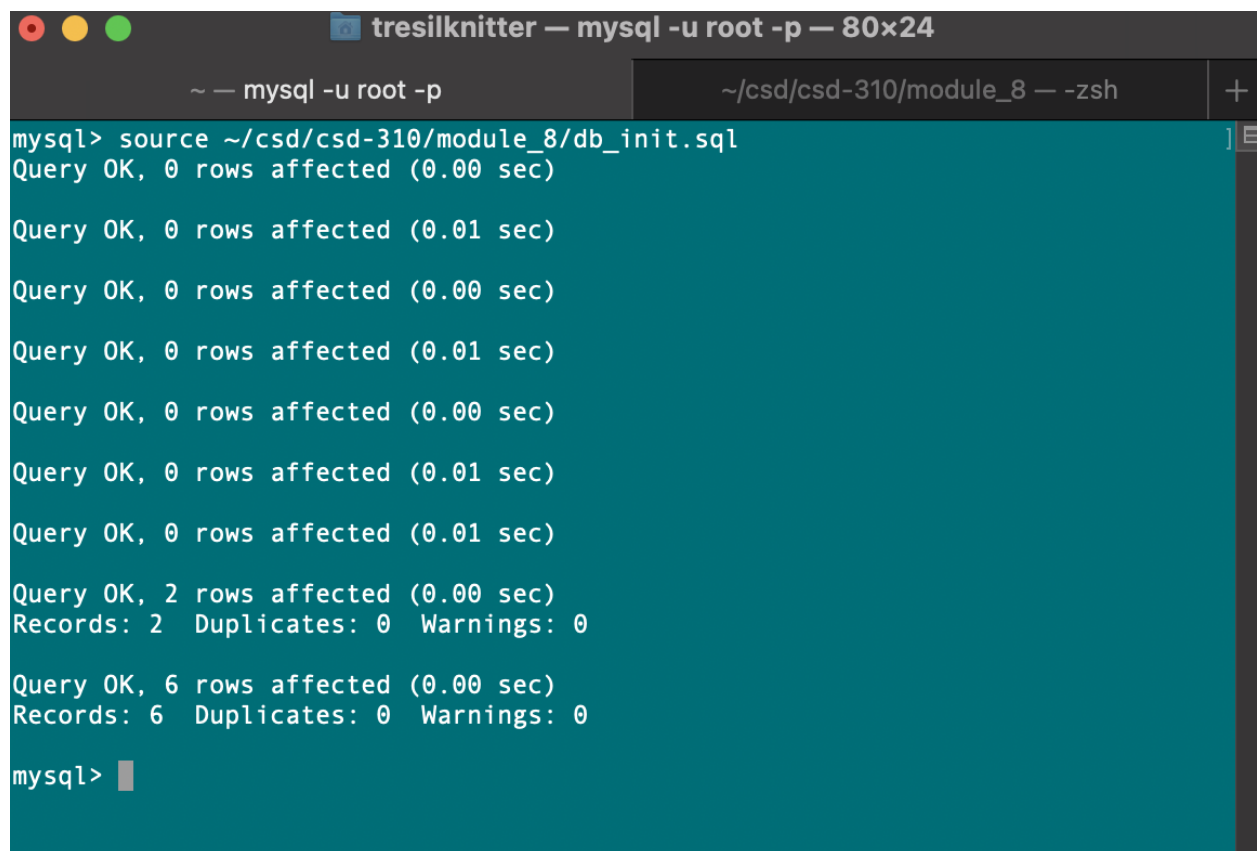


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Module 8.2: PySports Setup
Prof. Sampson

<https://github.com/wsilkkniii/csd-310>

```
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_pysports |
+-----+
| player              |
| team                |
+-----+
2 rows in set (0.00 sec)
```



```
tresilkknitter — mysql -u root -p — 80x24
~ — mysql -u root -p  ~/csd/csd-310/module_8 — -zsh
mysql> source ~/csd/csd-310/module_8/db_init.sql
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

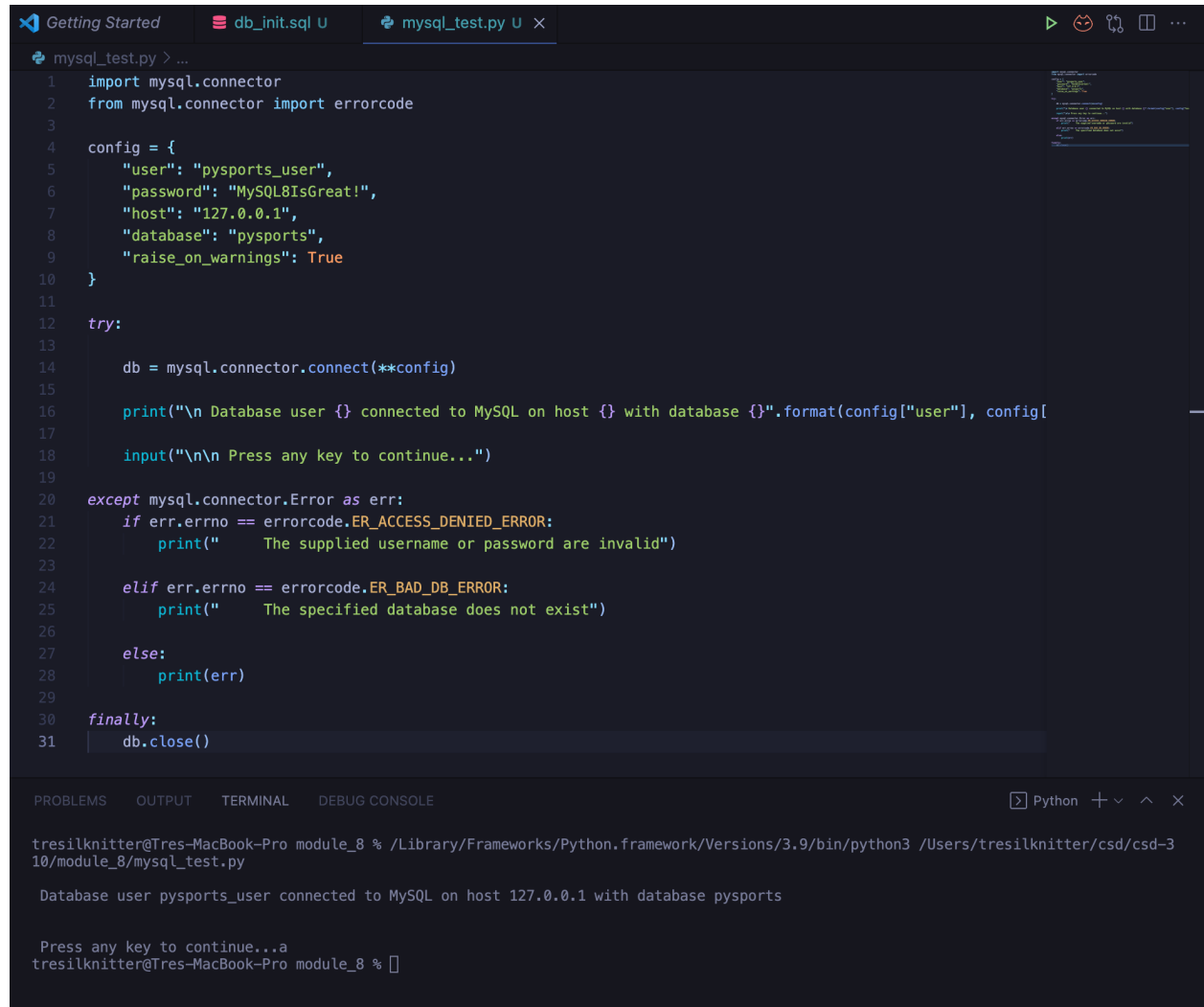
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0

Query OK, 6 rows affected (0.00 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql>
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_pysports |
+-----+
| player              |
| team                |
+-----+
2 rows in set (0.00 sec)

mysql> █
```



The screenshot shows a code editor with two tabs: `db_init.sql` and `mysql_test.py`. The `mysql_test.py` tab is active, displaying a Python script that attempts to connect to a MySQL database. The script defines a configuration dictionary with the following values: `user: "pysports_user"`, `password: "MySQL8IsGreat!"`, `host: "127.0.0.1"`, `database: "pysports"`, and `raise_on_warnings: True`. It uses a `try` block to connect to the database and prints a success message. If an error occurs, it checks for `ER_ACCESS_DENIED_ERROR` (invalid username/password) or `ER_BAD_DB_ERROR` (database does not exist). The script ends with a `finally` block that closes the database connection.

The terminal output at the bottom shows the execution of the script. It displays the success message: "Database user pysports_user connected to MySQL on host 127.0.0.1 with database pysports". It then prompts "Press any key to continue..." and shows the user pressing a key.

```
mysql_test.py > ...
1 import mysql.connector
2 from mysql.connector import errorcode
3
4 config = {
5     "user": "pysports_user",
6     "password": "MySQL8IsGreat!",
7     "host": "127.0.0.1",
8     "database": "pysports",
9     "raise_on_warnings": True
10 }
11
12 try:
13
14     db = mysql.connector.connect(**config)
15
16     print("\n Database user {} connected to MySQL on host {} with database {}".format(config["user"], config[
17
18     input("\n\n Press any key to continue...")
19
20 except mysql.connector.Error as err:
21     if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
22         print("    The supplied username or password are invalid")
23
24     elif err.errno == errorcode.ER_BAD_DB_ERROR:
25         print("    The specified database does not exist")
26
27     else:
28         print(err)
29
30 finally:
31     db.close()
```

Database user pysports_user connected to MySQL on host 127.0.0.1 with database pysports

Press any key to continue...a

tresilknitter@Tres-MacBook-Pro module_8 % █

```

db_init.sql
1  -- Drops test user if exists
2  DROP USER IF EXISTS 'pysports_user'@'localhost';
3
4  CREATE USER 'pysports_user'@'localhost' IDENTIFIED WITH mysql_native_password BY 'MySQL8IsGreat!';
5
6  GRANT ALL PRIVILEGES ON pysports.* TO 'pysports_user'@'localhost';
7
8  DROP TABLE IF EXISTS player;
9  DROP TABLE IF EXISTS team;
10
11 CREATE TABLE team (
12     team_id INT NOT NULL AUTO_INCREMENT,
13     team_name VARCHAR(75) NOT NULL,
14     mascot VARCHAR(75) NOT NULL,
15     PRIMARY KEY(team_id)
16 );
17
18 CREATE TABLE player (
19     player_id INT NOT NULL AUTO_INCREMENT,
20     first_name VARCHAR(75) NOT NULL,
21     last_name VARCHAR(75) NOT NULL,
22     team_id INT NOT NULL,
23     PRIMARY KEY(player_id),
24     CONSTRAINT fk_team
25     FOREIGN KEY(team_id)
26         REFERENCES team(team_id)
27 );
28
29 INSERT INTO team(team_name, mascot)
30 VALUES
31     ('Team Pirates', 'Giant Hand Hook'),
32     ('Team Mac', 'MacBook Laptop Guy');
33
34 INSERT INTO player(first_name, last_name, team_id)
35 VALUES
36     ('Hill', 'Clontun', (SELECT team_id FROM team WHERE team_name = 'Team Pirates')),
37     ('Donny', 'Plump', (SELECT team_id FROM team WHERE team_name = 'Team Pirates')),
38     ('Jack', 'Sparow', (SELECT team_id FROM team WHERE team_name = 'Team Pirates')),
39     ('Ben', 'Shape', (SELECT team_id FROM team WHERE team_name = 'Team Mac')),
40     ('Bernie', 'Spandex', (SELECT team_id FROM team WHERE team_name = 'Team Mac')),
41     ('Beau', 'Lydon', (SELECT team_id FROM team WHERE team_name = 'Team Mac'));
42

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE Python + - ^ v x

```

tresilknitter@Tres-MacBook-Pro module_8 % /Library/Frameworks/Python.framework/Versions/3.9/bin/python3 /Users/tresilknitter/csd/csd-310/module_8/mysql_test.py

Database user pysports_user connected to MySQL on host 127.0.0.1 with database pysports

Press any key to continue...

```

Python 3.9.0 localhost Ln 31, Col 1 Spaces: 4 UTF-8 LF Python