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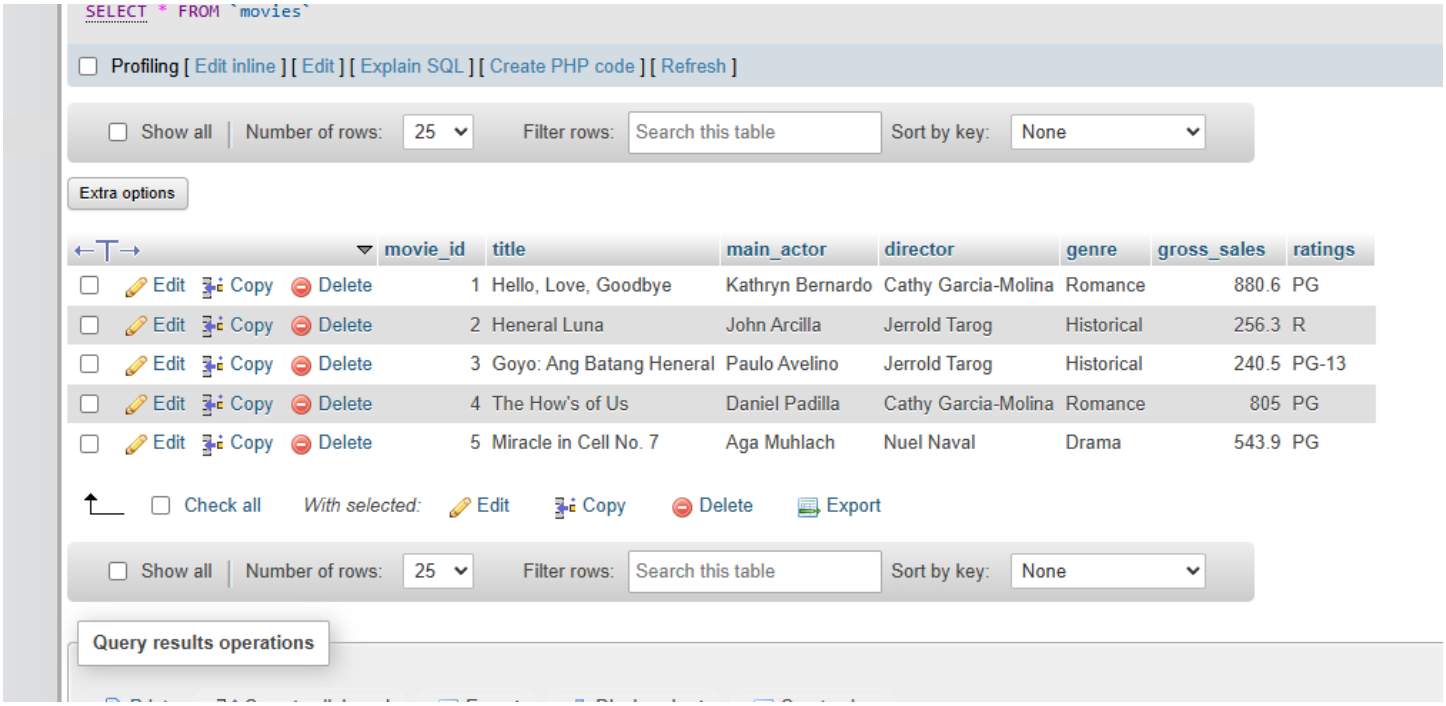
YEAR & SECTION: BSCS – C204

Finals Lab Task 5. CLI using Mysql and Python

SAMPLE OUTPUT:



```
SELECT * FROM `movies`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

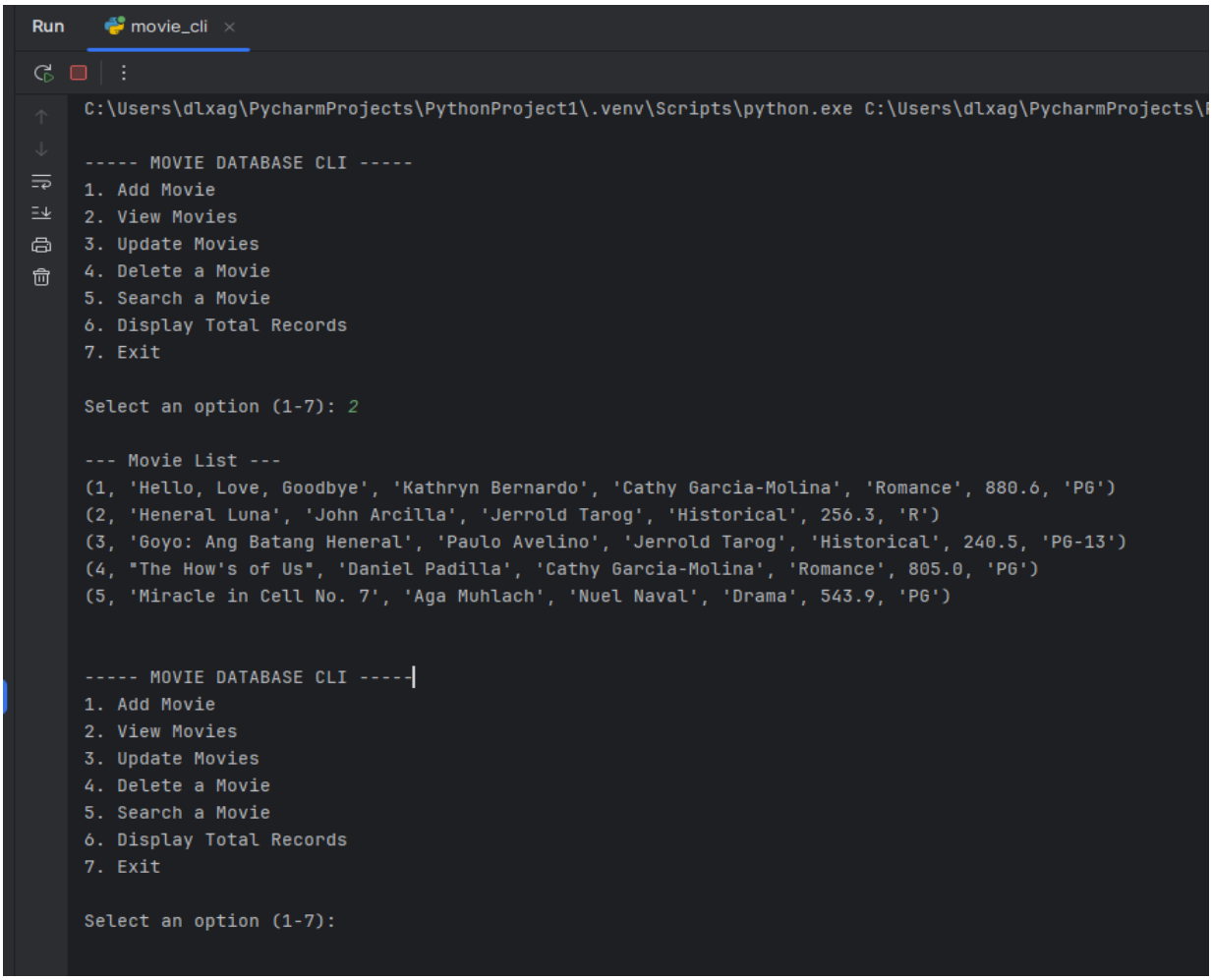
Extra options

	movie_id	title	main_actor	director	genre	gross_sales	ratings
Edit Copy Delete	1	Hello, Love, Goodbye	Kathryn Bernardo	Cathy Garcia-Molina	Romance	880.6	PG
Edit Copy Delete	2	Heneral Luna	John Arcilla	Jerrold Tarog	Historical	256.3	R
Edit Copy Delete	3	Goyo: Ang Batang Heneral	Paulo Avelino	Jerrold Tarog	Historical	240.5	PG-13
Edit Copy Delete	4	The How's of Us	Daniel Padilla	Cathy Garcia-Molina	Romance	805	PG
Edit Copy Delete	5	Miracle in Cell No. 7	Aga Muhlach	Nuel Naval	Drama	543.9	PG

Check all *With selected:* Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations



```
Run  movie_cli

C:\Users\dlxag\PycharmProjects\PythonProject1\.venv\Scripts\python.exe C:\Users\dlxag\PycharmProjects\

----- MOVIE DATABASE CLI -----
1. Add Movie
2. View Movies
3. Update Movies
4. Delete a Movie
5. Search a Movie
6. Display Total Records
7. Exit

Select an option (1-7): 2

--- Movie List ---
(1, 'Hello, Love, Goodbye', 'Kathryn Bernardo', 'Cathy Garcia-Molina', 'Romance', 880.6, 'PG')
(2, 'Heneral Luna', 'John Arcilla', 'Jerrold Tarog', 'Historical', 256.3, 'R')
(3, 'Goyo: Ang Batang Heneral', 'Paulo Avelino', 'Jerrold Tarog', 'Historical', 240.5, 'PG-13')
(4, "The How's of Us", 'Daniel Padilla', 'Cathy Garcia-Molina', 'Romance', 805.0, 'PG')
(5, 'Miracle in Cell No. 7', 'Aga Muhlach', 'Nuel Naval', 'Drama', 543.9, 'PG')


----- MOVIE DATABASE CLI -----
1. Add Movie
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7. Exit

Select an option (1-7):
```

Example code:

movie_cli.py

```python
import mysql.connector

# ---- DATABASE CONNECTION ----
conn = mysql.connector.connect(
    host="localhost",
    user="test_user",
    password="password123",
    database="moviesDB"
)

cursor = conn.cursor()

# ---- ADD MOVIE ----
def add_movie():  1 usage
    print("\n--- Add New Movie ---")
    movie_id = input("Enter Movie ID: ")
    title = input("Enter Title: ")
    main_actor = input("Enter Main Actor: ")
    director = input("Enter Director: ")
    genre = input("Enter Genre: ")
    gross_sales = input("Enter Gross Sales: ")
    ratings = input("Enter Rating (G, PG, R13, R16, X): ")

    query = ("INSERT INTO movies VALUES (%s,%s,%s,%s,%s,%s,%s)")
    values = (movie_id, title, main_actor, director, genre, gross_sales, ratings)
    cursor.execute(query, values)
    conn.commit()

    print("Movie added successfully!\n")

# ---- VIEW ALL MOVIES ----
def view_movies():  1 usage
    print("\n--- Movie List ---")
```

```
    cursor.execute("SELECT * FROM movies")
    rows = cursor.fetchall()

    if rows:
        for row in rows:
            print(row)
    else:
        print("No movies found.")
    print()

# ---- UPDATE MOVIE ----
def update_movie():  1 usage
    print("\n--- Update a Movie ---")
    movie_id = input("Enter Movie ID to update: ")
    title = input("Enter new Title: ")
    gross_sales = input("Enter new Gross Sales: ")

    query = "UPDATE movies SET title=%s, gross_sales=%s WHERE movie_id=%s"
    cursor.execute(query, params: (title, gross_sales, movie_id))
    conn.commit()

    print("Movie updated successfully!\n")

# ---- DELETE MOVIE ----
def delete_movie():  1 usage
    print("\n--- Delete a Movie ---")
    movie_id = input("Enter Movie ID to delete: ")

    cursor.execute( operation: "DELETE FROM movies WHERE movie_id=%s",  params: (movie_id,))
    conn.commit()

    print("Movie deleted successfully!\n")
```

```python

# ---- SEARCH MOVIE ----
def search_movie():  1 usage
    print("\n--- Search Movie ---")
    keyword = input("Enter Title or Actor keyword: ")

    query = "SELECT * FROM movies WHERE title LIKE %s OR main_actor LIKE %s"
    like_keyword = "%" + keyword + "%"
    cursor.execute(query,  params: (like_keyword, like_keyword))

    row = cursor.fetchone()
    if row:
        print("Movie Found:", row)
    else:
        print("No matching movie found.")
    print()

# ---- COUNT MOVIES ----
def total_records():  1 usage
    cursor.execute("SELECT COUNT(*) FROM movies")
    count = cursor.fetchone()[0]
    print(f"\nTotal number of movies: {count}\n")

# ---- MENU LOOP ----
def menu():  1 usage
    while True:
        print("""
----- MOVIE DATABASE CLI -----
1. Add Movie
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6. Display Total Records
7. Exit
""")
```

```
102
103         choice = input("Select an option (1-7): ")
104
105         if choice == "1":
106             add_movie()
107         elif choice == "2":
108             view_movies()
109         elif choice == "3":
110             update_movie()
111         elif choice == "4":
112             delete_movie()
113         elif choice == "5":
114             search_movie()
115         elif choice == "6":
116             total_records()
117         elif choice == "7":
118             print("Exiting program...")
119             break
120         else:
121             print("Invalid option. Try again.\n")
122
123 menu()
124
```