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MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 1
Enter movie title: batman
Enter main actor: dexter
Enter director: panhedeo
Enter genre: Fantasy
Enter gross sales: 888
Enter ratings (G, PG, R13, R16, X): R13
Movie added successfully!

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5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 1
Enter movie title: Superman
Enter main actor: pancho
Enter director: dexie
Enter genre: Fantasy
Enter gross sales: 124
Enter ratings (G, PG, R13, R16, X): G
Movie added successfully!

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1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 1
Enter movie title: The man
Enter main actor: christian
Enter director: lexter
Enter genre: Fantasy
Enter gross sales: 1234
Enter ratings (G, PG, R13, R16, X): G
Movie added successfully!

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MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 1
Enter movie title: My Man
Enter main actor: Dexter
Enter director: Lexter
Enter genre: Horror
Enter gross sales: 8712
Enter ratings (G, PG, R13, R16, X): PG
Movie added successfully!

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MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 1
Enter movie title: your my sunshine
Enter main actor: James
Enter director: moses
Enter genre: Love
Enter gross sales: 612
Enter ratings (G, PG, R13, R16, X): R16
Movie added successfully!

```

VIEW MOVIE:

```
MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 2

Movies List:
(3, 'Crazy man', 'me', 'you', 'Crazy', Decimal('5123.00'), 'G')
(4, 'Superman', 'pancho', 'dexie', 'Fantasy', Decimal('124.00'), 'G')
(5, 'The man', 'christian', 'lexter', 'Fantasy', Decimal('1234.00'), 'G')
(6, 'My Man', 'Dexter', 'Lexter', 'Horror', Decimal('8712.00'), 'PG')
(7, 'your my sunshine', 'James', 'moses', 'Love', Decimal('612.00'), 'R16')
```

UPDATE MOVIE:

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MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 3
Enter movie ID to update: 3
Enter new title: Crazy man
Enter new main actor: me
Enter new director: you
Enter new genre: Crazy
Enter new gross sales: 5123
Enter new ratings (G, PG, R13, R16, X): G
Movie updated successfully!
```

DELETE A MOVIE:

```
MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 4
Enter movie ID to delete: 2
Movie deleted successfully!
```

SEARCH A MOVIE:

```
MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 5
Enter movie title to search: superman
```

DISPLAY TOTAL RECORDS:

```
MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 6

Total number of movies: 5
```

EXIT:

```
MOVIE DATABASE CRUD APP
1- Add New Record
2- View all records
3- Update a Record
4- Delete a record
5- Search A Record
6- Display Total Number of Movies
7- Exit
Enter choice: 7
Exiting... Goodbye!

Process finished with exit code 0
|
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MY CODE:

```
import mysql.connector

# Function to connect to the MySQL database
def connect_db():
    return mysql.connector.connect(
        host="localhost",
        user="test users", # MySQL user (replace with your own user if
needed)
        password="123456", # MySQL password (replace with your own password)
        database="movieDB" # Database name
    )

# Add a new movie record to the database
def add_movie():
    conn = connect_db()
    cursor = conn.cursor()

    title = input("Enter movie title: ")
    main_actor = input("Enter main actor: ")
    director = input("Enter director: ")
    genre = input("Enter genre: ")
    gross_sales = float(input("Enter gross sales: "))
    ratings = input("Enter ratings (G, PG, R13, R16, X): ")

    cursor.execute("""
        INSERT INTO movies (title, main_actor, director, genre, gross_sales,
ratings)
        VALUES (%s, %s, %s, %s, %s, %s)
        """, (title, main_actor, director, genre, gross_sales, ratings))
    conn.commit()
    print("Movie added successfully!\n")
    conn.close()

# View all records in the 'movies' table
def view_movies():
    conn = connect_db()
    cursor = conn.cursor()
    cursor.execute("SELECT * FROM movies")
    rows = cursor.fetchall()

    if rows:
        print("\nMovies List:")
        for row in rows:
            print(row)
    else:
        print("\nNo movies found.")
    conn.close()

# Update a movie record
def update_movie():
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conn = connect_db()
cursor = conn.cursor()

movie_id = int(input("Enter movie ID to update: "))
title = input("Enter new title: ")
main_actor = input("Enter new main actor: ")
director = input("Enter new director: ")
genre = input("Enter new genre: ")
gross_sales = float(input("Enter new gross sales: "))
ratings = input("Enter new ratings (G, PG, R13, R16, X): ")

cursor.execute("""
    UPDATE movies
    SET title=%s, main_actor=%s, director=%s, genre=%s, gross_sales=%s,
ratings=%s
    WHERE movie_id=%s
""", (title, main_actor, director, genre, gross_sales, ratings,
movie_id))
conn.commit()
print("Movie updated successfully!\n")
conn.close()

# Delete a movie record
def delete_movie():
    conn = connect_db()
    cursor = conn.cursor()

    movie_id = int(input("Enter movie ID to delete: "))
    cursor.execute("DELETE FROM movies WHERE movie_id=%s", (movie_id,))
    conn.commit()
    print("Movie deleted successfully!\n")
    conn.close()

# Search for a movie by title (using LIKE statement)
def search_movie():
    conn = connect_db()
    cursor = conn.cursor()

    search_term = input("Enter movie title to search: ")
    cursor.execute("SELECT * FROM movies WHERE title LIKE %s", ('%' +
search_term + '%',))
    rows = cursor.fetchall()

    if rows:
        print("\nSearch Results:")
        for row in rows:
            print(row)
    else:
        print("\nNo matching movies found.")
    conn.close()

# Display the total number of movies in the database
def total_movies():
    conn = connect_db()

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cursor = conn.cursor()

cursor.execute("SELECT COUNT(*) FROM movies")
result = cursor.fetchone()
print(f"\nTotal number of movies: {result[0]}")
conn.close()

# Main CLI menu for user interaction
def menu():
    while True:
        print("\nMOVIE DATABASE CRUD APP")
        print("1- Add New Record")
        print("2- View all records")
        print("3- Update a Record")
        print("4- Delete a record")
        print("5- Search A Record")
        print("6- Display Total Number of Movies")
        print("7- Exit")

        choice = input("Enter choice: ")

        if choice == '1':
            add_movie()
        elif choice == '2':
            view_movies()
        elif choice == '3':
            update_movie()
        elif choice == '4':
            delete_movie()
        elif choice == '5':
            search_movie()
        elif choice == '6':
            total_movies()
        elif choice == '7':
            print("Exiting... Goodbye!")
            break
        else:
            print("Invalid choice, please try again.")

# Entry point of the program
if __name__ == "__main__":
    menu()

```