

```

import mysql.connector
from mysql.connector import errorcode

# Connect to MySQL movies database
config = {
    'user': 'root',
    'password': ' ',
    'host': '127.0.0.1',
    'database': 'movies',
    'raise_on_warnings': True,
}

try:
    # connecting to database
    cnx = mysql.connector.connect(**config)
    cursor = cnx.cursor()

    # First query select all fields for the studio table
    print("-- DISPLAYING STUDIO RECORDS --")
    cursor.execute("SELECT studio_id, studio_name FROM studio")
    for (studio_id, studio_name) in cursor:
        print(f"Studio ID: {studio_id}\nStudio Name: {studio_name}")
    print("\n")

    # Second query select all fields for the genre table
    print("-- DISPLAYING GENRE RECORDS --")
    cursor.execute("SELECT genre_id, genre_name FROM genre")
    for (genre_id, genre_name) in cursor:
        print(f"Genre ID: {genre_id}\nGenre Name: {genre_name}")
    print("\n")

    # Third query select the movie names for those movies that have a runtime of less than two
    hours
    print("-- DISPLAYING SHORT FILM RECORDS --")
    cursor.execute("SELECT film_name, film_runtime FROM film WHERE film_runtime < 120")
    for (film_name, film_runtime) in cursor:
        print(f"Film Name: {film_name}\nRuntime: {film_runtime}")
    print("\n")

    # Fourth query get a list of film names, and directors grouped by director
    print("-- DISPLAYING DIRECTOR RECORDS IN ORDER --")
    cursor.execute("SELECT film_name, film_director FROM film ORDER BY film_director")
    for (film_name, film_director) in cursor:
        print(f"Film Name: {film_name}\nDirector: {film_director}")
    print("\n")

except mysql.connector.Error as err:
    if err.errno == errorcode.ER_ACCESS_DENIED_ERROR:
        print("Invalid username or password")
    elif err.errno == errorcode.ER_BAD_DB_ERROR:
        print("Database does not exist")
    else:
        print(err)
finally:

```

```
if cnx.is_connected():  
    cursor.close()  
    cnx.close()  
    print("MySQL connection is closed.")
```