# Solved SQL Worksheet

1. Write SQL query to show all the data in the Movie table.

Ans.

- import sqlite3
- db=sqlite3.connect("my_database.db")
- cursor=db.cursor()
- results= cursor.execute("Select * from movies")
- results.fetchall()

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2. Write SQL query to show the title of the longest runtime movie.

Ans.

- results= cursor.execute("Select title, Max(runtime) from movies")
- results.fetchone()

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3. Write SQL query to show the highest revenue generating movie title.

Ans.

- results= cursor.execute("Select title, Max(revenue) from movies")
- results.fetchone()

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4. Write SQL query to show the movie title with maximum value of revenue/budget.

Ans.

- results= cursor.execute("Select title, Max(budget) from movies")
- results.fetchone()

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5. Write a SQL query to show the movie title and its cast details like name of the person, gender, character name, cast order.

Ans.

- results= cursor.execute("Select movie.title, movie_cast.character_name, movie_cast.cast_order, person.person_name, gender.gender from movie Join movie_cast on movie.movie_id=movie_cast.movie_id Join gender on movie_cast.gender_id=gender_gender_id Join person on movie_cast.person_id=person.person_id ")
- results.fetchall()

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6. Write a SQL query to show the country name where maximum number of movies has been produced, along with the number of movies produced.

Ans.

- results= cursor.execute("Select country_name,  max(count(*)) from country group by country_name")
- results.fetchone()

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7. Write a SQL query to show all the genre_id in one column and genre_name in second column.

Ans.

- results= cursor.execute("Select genre_id, genre_name from genre")
- results.fetchall()

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8. Write a SQL query to show name of all the languages in one column and number of movies in that particular column in another column.

Ans.

- results= cursor.execute("Select language.language_name, movie_languages.movie_id, count(*) from language Join movie_languages on language.language_id=movie_languages.language_id")
- results.fetchall()

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9. Write a SQL query to show movie name in first column, no. of crew members in second column and number of cast members in third column.

Ans.

- results= cursor.execute("Select movie.title, movie_crew.person_id, movie_cast.person_id  from movie join movie_crew on movie.movie_id=moview_crew.movie_id join movie_cast on movie_crew.movie_id=movie_cast.movie_id")
- results.fetchall()

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10. Write a SQL query to list top 10 movies title according to popularity column in decreasing order.

Ans.

- results= cursor.execute("Select title, popularity,count(*) from movie group by popularity order by count() desc")
- i=1
- for row in results:
    - if i<=10:
        - print(row)
        - i=i+1

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11. Write a SQL query to show the name of the 3rd most revenue generating movie and its revenue.

Ans.

- results= cursor.execute("Select title, revenue from movie order by revenue desc")
- i=1
- for row in results:
    - if i==3:
        - print(row)
    - else:
        - i=i+1

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12. Write a SQL query to show the names of all the movies which have “rumoured” movie status.

Ans.

- results= cursor.execute("Select title from movies where movie_status=’rumoured’")
- results.fetchall()

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13. Write a SQL query to show the name of the “United States of America” produced movie which generated maximum revenue.

Ans.

- results= cursor.execute("Select title, max(revenue) from movies where movie_id=(Select movie_id from production_country where country_id=(Select country_id from country where country_name=’United States of America’))")
- results.fetchone()

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14. Write a SQL query to print the movie_id in one column and name of the production company in the second column for all the movies.

Ans.

- results= cursor.execute("Select movie.movie_id, production_company.company_name from movie join movie_company on movie.movie_id=movie_company.movie_id join production_company on movie_company.company_id=production_company.company_id”)
- results.fetchall()

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15. Write a SQL query to show the title of top 20 movies arranged in decreasing order of their budget.

Ans.

- results= cursor.execute("Select title from movie order by budget desc”)
- i=1
- for row in results:
    - if i<=20:
        - print(row)
        - i=i+1

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