## SQL Queries

1. Find all comedy movies.

SELECT m.title, k.`name`

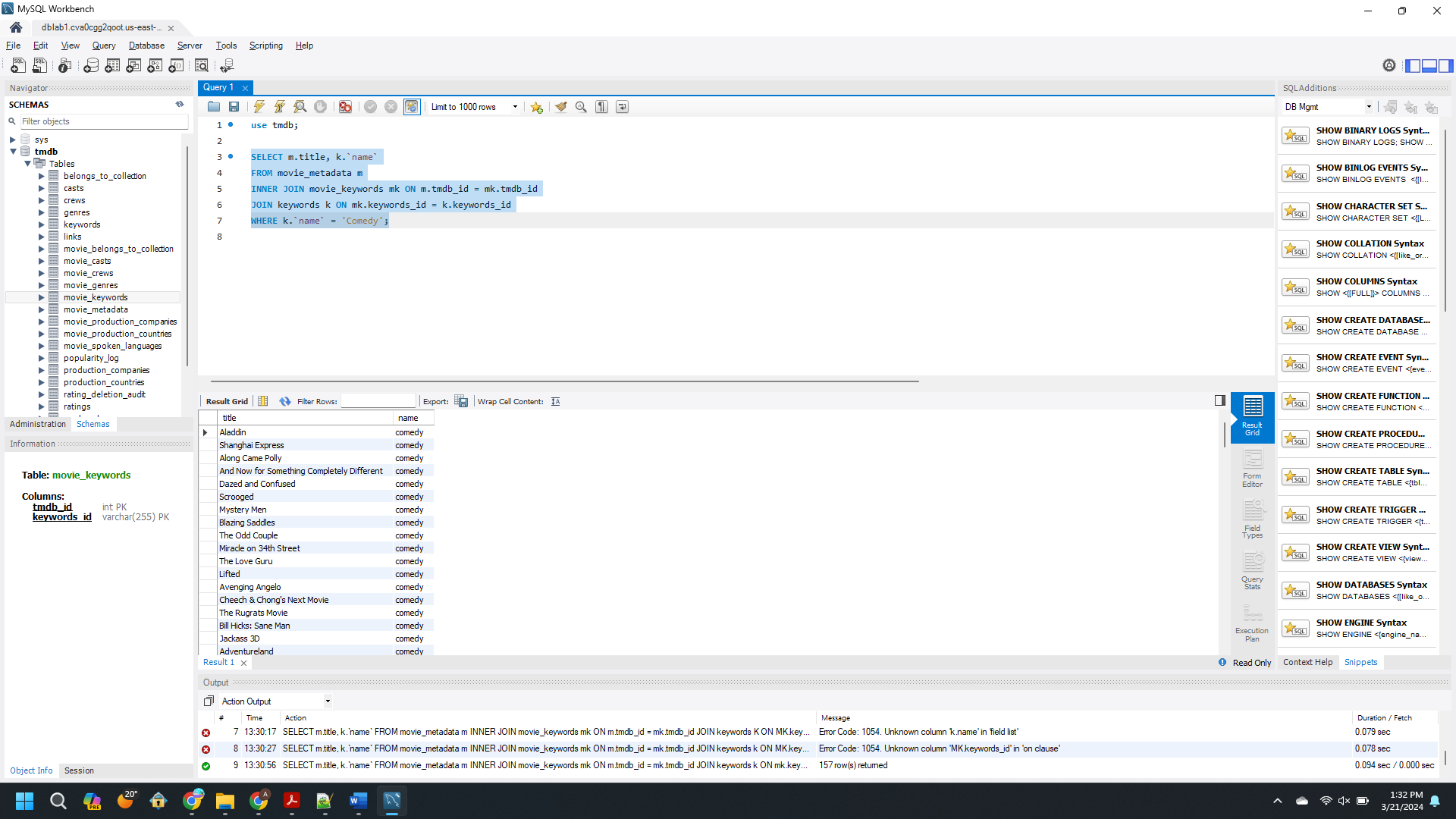
FROM movie\_metadata m

INNER JOIN movie\_keywords mk ON m.tmdb\_id = mk.tmdb\_id

JOIN keywords k ON mk.keywords\_id = k.keywords\_id

WHERE k.`name` = 'Comedy';

Screenshot 1:



2. Get the average rating of movies and order by highly rated movies.

SELECT m.title, AVG(r.rating) AS average\_rating

FROM movie\_metadata m

JOIN links l ON m.tmdb\_id=l.tmdb\_id

JOIN ratings r ON l.movie\_id = r.movie\_id GROUP BY m.title ORDER BY average\_rating DESC;

Screenshot 2:

A screenshot of a computer

Description automatically generated

3. Get the cast and crew of Ariel movie.

SELECT mcr.tmdb\_id,m.title,ca.cast\_id,ca.name as Cast\_name,ca.character\_name,cr.id as crew\_id,cr.name as crew\_name,cr.department,cr.job FROM

movie\_crews mcr

JOIN movie\_casts mc on mcr.tmdb\_id=mc.tmdb\_id

JOIN `casts` ca ON mc.credit\_id=ca.credit\_id

JOIN crews cr ON mcr.credit\_id=cr.credit\_id

JOIN links l ON l.tmdb\_id=mcr.tmdb\_id

JOIN movie\_metadata m ON l.tmdb\_id=m.tmdb\_id where m.title="Ariel";

Screenshot 3:

A screenshot of a computer

Description automatically generated

4. Fetch the movies production company and country.

SELECT M.TMDB\_ID AS MOVIE\_ID,M.TITLE,MPC.production\_companies\_id,PC.`name`,C.production\_countries\_id,C.`name` FROM `movie\_metadata` M

JOIN `movie\_production\_companies` MPC ON M.TMDB\_ID=MPC.TMDB\_ID

JOIN `production\_companies` PC ON MPC.production\_companies\_id=PC.production\_companies\_id

JOIN `movie\_production\_countries` MC ON M.TMDB\_ID=MC.TMDB\_ID

JOIN `production\_countries` C ON MC.production\_countries\_id=C.production\_countries\_id order by M.TMDB\_ID ;

Screenshot 4:

A screenshot of a computer

Description automatically generated

5. Fetch the collection that has more than 50 movies.

Query 5:

Select BC.name AS Collection\_name, count(M.title) AS Number\_of\_Movies from `movie\_belongs\_to\_collection` MBC

JOIN movie\_metadata M ON MBC.tmdb\_id=M.tmdb\_id

JOIN belongs\_to\_collection BC ON MBC.belongs\_to\_collection\_id=BC.belongs\_to\_collection\_id

Group by BC.NAME having Number\_of\_Movies>10 order by Number\_of\_Movies;

Screenshot 5:

A screenshot of a computer

Description automatically generated

6. Top 10 movies based on revenue generated

SELECT

original\_title AS 'Movie Title',

FORMAT(budget / 1000000, 2) AS 'Budget in Millions',

FORMAT(revenue / 1000000, 2) AS 'Revenue in Millions',

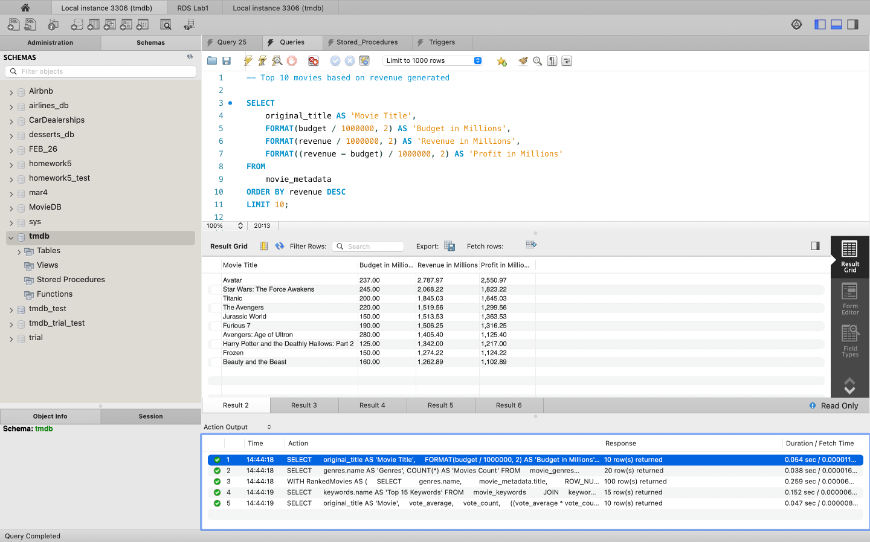
FORMAT((revenue - budget) / 1000000, 2) AS 'Profit in Millions'

FROM

movie\_metadata

ORDER BY revenue DESC

LIMIT 10;



7. Number of Movies in each genre

SELECT

genres.name AS 'Genres', COUNT(\*) AS 'Movies Count'

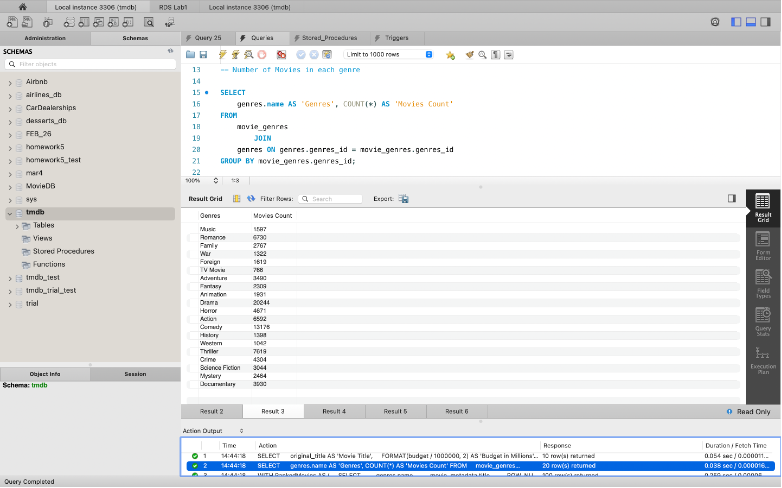
FROM

movie\_genres

JOIN

genres ON genres.genres\_id = movie\_genres.genres\_id

GROUP BY movie\_genres.genres\_id



8. Top 5 movies based on Popularity score in each genre

WITH RankedMovies AS (

SELECT

genres.name,

movie\_metadata.title,

ROW\_NUMBER() OVER(PARTITION BY movie\_genres.genres\_id ORDER BY movie\_metadata.popularity DESC) AS genre\_rank

FROM

movie\_genres

JOIN

movie\_metadata ON movie\_metadata.tmdb\_id = movie\_genres.tmdb\_id

JOIN

genres on genres.genres\_id = movie\_genres.genres\_id

)

SELECT

genre\_rank AS 'Popularity Rank',

name AS 'Genres',

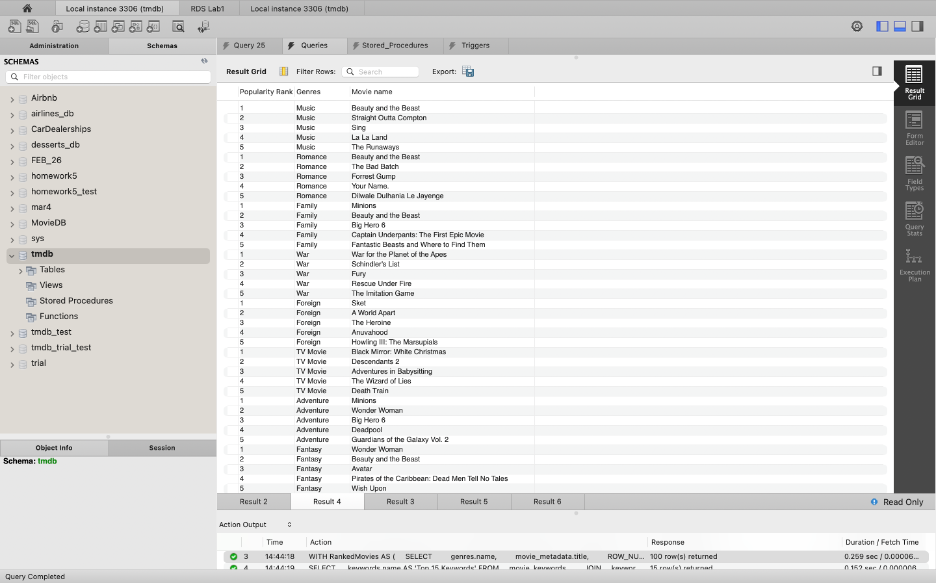
title AS 'Movie name'

FROM

RankedMovies

WHERE

genre\_rank <= 5;



9. Top 15 Keywords

SELECT

keywords.name AS 'Top 15 Keywords'

FROM

movie\_keywords

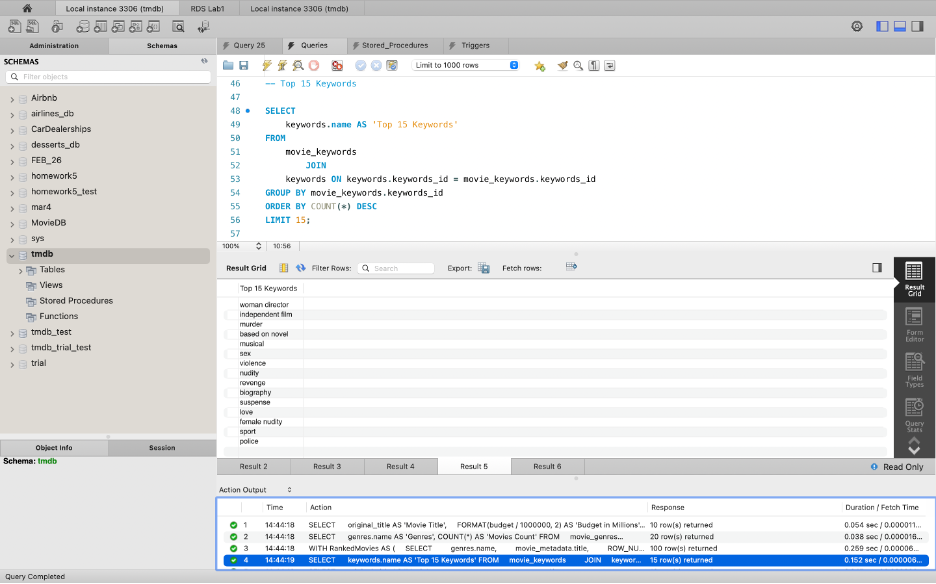
JOIN

keywords ON keywords.keywords\_id = movie\_keywords.keywords\_id

GROUP BY movie\_keywords.keywords\_id

ORDER BY COUNT(\*) DESC

LIMIT 15;



10. Weighted Rating based on Number of Votes and Vote Average

SELECT

original\_title AS 'Movie',

vote\_average,

vote\_count,

((vote\_average \* vote\_count) + ((SELECT

AVG(vote\_average)

FROM

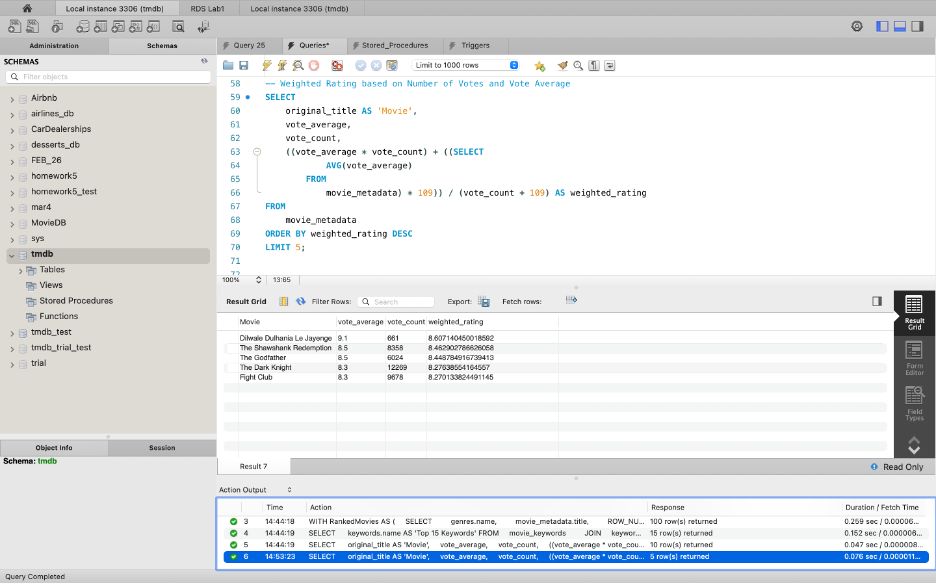
movie\_metadata) \* 109)) / (vote\_count + 109) AS weighted\_rating

FROM

movie\_metadata

ORDER BY weighted\_rating DESC

LIMIT 5;



## Views

CREATE VIEW movie\_details AS

SELECT mm.\*, mbc.belongs\_to\_collection\_id, mg.genre\_id, mk.keyword\_id

FROM movie\_metadata AS mm

JOIN movie\_belongs\_to\_collection AS mbc ON mm.tmdb\_id = mbc.tmdb\_id

JOIN movie\_genres AS mg ON mm.tmdb\_id = mg.tmdb\_id

JOIN movie\_keywords AS mk ON mm.tmdb\_id = mk.tmdb\_id;

