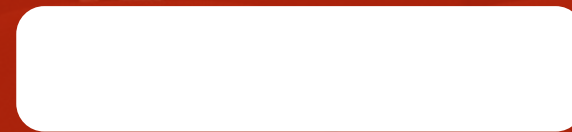# Movie Analysis Using Sql

NAME – SWAPNIL SHELKE

PROJECT – SQL

DATABASE – MOVIESDB

ABOUT THE DATASET

The project is based on relational sql database called moviesdb, designed to analyze film industry

it contains tables for movies, actors, financial data, languages and actor-movie relationship

Q1 – Show the budget and revenue of movie "interstellar"

```sql
1    -- Show the budget and revenue of
2    -- the movie titles Interstellar
3
4 ●  SELECT
5        movies.title, financials.budget, financials.revenue
6    FROM
7        movies
8            JOIN
9        financials ON movies.movie_id = financials.movie_id
10   WHERE
11       movies.title = 'Interstellar'
12
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⅄A

title	budget	revenue
Interstellar	165.00	701.80

Q2 - find all actors who acted in movies released in 2015

```sql
1    -- Find all Actors who acted in movies relesed in 2015
2
3 •  SELECT
4        actors.name
5    FROM
6        movies
7            JOIN
8        movie_actor ON movie_actor.movie_id = movies.movie_id
9            JOIN
10       actors ON actors.actor_id = movie_actor.actor_id
11   WHERE
12       movies.release_year = 2015
```

| Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

name
Ranveer Singh
Deepika Padukone
Prabhas
Rana Daggubati
Salman Khan
Nawazuddin Siddiqui

Result 1 ✕

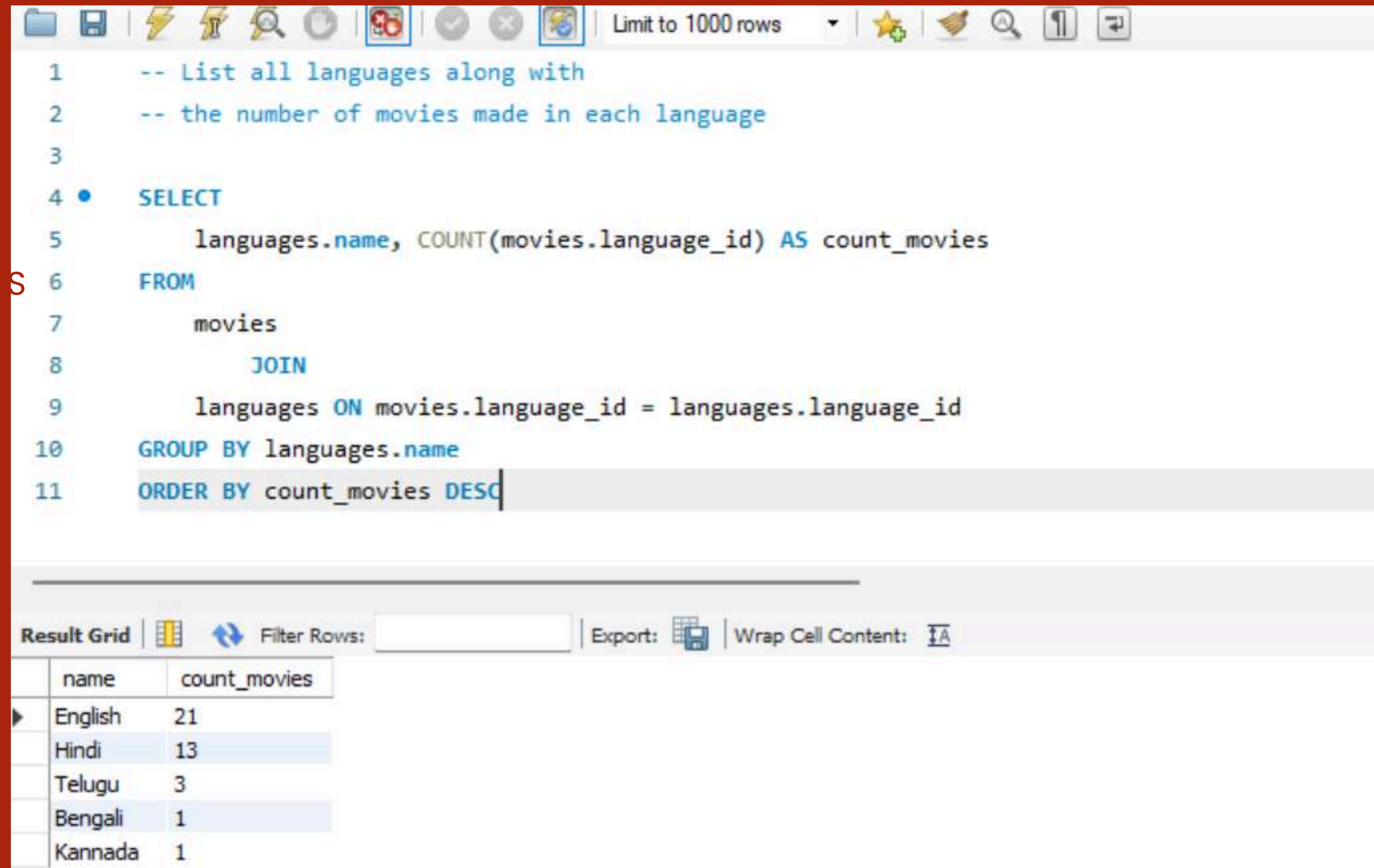# Q3 -Get the total revenue generated by movies in each industry

```sql
1    -- Get the total revenue generated by movies in each industry
2
3  • SELECT
4      movies.industry, SUM(financials.revenue) AS Total_revenue
5    FROM
6        movies
7            JOIN
8        financials ON movies.movie_id = financials.movie_id
9    GROUP BY movies.industry
10   ORDER BY Total_revenue DESC
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

industry	Total_revenue
Bollywood	133756.10
Hollywood	18577.90

Q4 – Find number of movies made in each language

```sql
1    -- List all languages along with
2    -- the number of movies made in each language
3
4  • SELECT
5        languages.name, COUNT(movies.language_id) AS count_movies
6    FROM
7        movies
8            JOIN
9        languages ON movies.language_id = languages.language_id
10   GROUP BY languages.name
11   ORDER BY count_movies DESC
```

name	count_movies
English	21
Hindi	13
Telugu	3
Bengali	1
Kannada	1

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝓐

Limit to 1000 rows

Q5 - Find top 3 actors who worked in most number of movies

```sql
1    -- Find the top 3 actors who have acted in most number of movies
2
3 •  SELECT
4        actors.name, COUNT(movie_actor.movie_id) cnt
5    FROM
6        actors
7            JOIN
8        movie_actor ON movie_actor.actor_id = actors.actor_id
9    GROUP BY actors.name
10   ORDER BY cnt DESC
11   LIMIT 3
12
```

name	cnt
Chris Hemsworth	5
Chris Evans	4
Aamir Khan	3

Q6 - Calculate the average imdb rating for each language

```sql
1    -- Calculate the average imdb rating of movies for each language
2
3 •  SELECT
4        languages.name, ROUND(AVG(movies.imdb_rating), 1) AS rating
5    FROM
6        movies
7            JOIN
8        languages ON movies.language_id = languages.language_id
9    GROUP BY languages.name
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\bar{A}$

name	rating
Kannada	8.4
English	8.2
Hindi	7.5
Bengali	8.3
Telugu	7.9

Q7 – Find the top 5 actors whos movies have generated the highest total revenue

```sql
1        -- find the top 5 actors whos movies
2        -- have generated the highest total revenue
3
4  ●   SELECT
5          actors.name, SUM(financials.revenue) AS total_revenue
6      FROM actors
7              JOIN movie_actor
8              ON actors.actor_id = movie_actor.actor_id
9              JOIN financials
10             ON movie_actor.movie_id = financials.movie_id
11     GROUP BY actors.name
12     ORDER BY total_revenue DESC LIMIT 5
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA | Fetch rows:

name	total_revenue
Karuna Banerjee	100000.00
Kanu Banerjee	100000.00
Aamir Khan	13890.00
Salman Khan	11693.10
Nawazuddin Siddiqui	11690.00

Q8 - List top 3 actors who acted in most number of different language

```sql
1      -- list top 3 actors who acted in most number of diifernt language movies
2
3      with t1 as (select movie_actor.actor_id, count(distinct languages.name) as lang
4      from movie_actor join movies
5      on movies.movie_id = movie_actor.movie_id
6      join languages
7      on movies.language_id = languages.language_id
8      group by movie_actor.actor_id
9      order by lang desc limit 3)
10
11     select actors.name,t1.lang
12     from actors join t1
13     on actors.actor_id = t1.actor_id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

name	lang
Sanjay Dutt	2
Yash	1
Benedict Cumberbatch	1

THANK
YOU