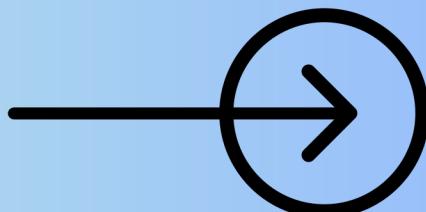


SQL Joins: From Fundamentals to Advanced Techniques...!



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01

Query: 1

→ **Show all the movies with their language names.**



A screenshot of a MySQL Workbench interface showing a query and its results. The query is:

```
1 select
2      m.title, l.name
3  from movies m
4  join languages l
5  using (language_id)
```

The results are displayed in a table:

	title	name
▶	Pather Panchali	Bengali
	Doctor Strange in the Multiverse of Madness	English
	Thor: The Dark World	English
	Thor: Ragnarok	English
	Thor: Love and Thunder	English
	The Shawshank Redemption	English
	Inception	English

Result 6

02

Query: 2

→ **Show all Telugu movie names (assuming you don't know the language id for Telugu).**



Screenshot of a MySQL Workbench interface showing a query editor and a result grid.

Query Editor:

```
1 select
2     title from movies m
3 join languages l
4 on m.language_id = l.language_id
5 where name = 'Telugu'
```

Result Grid:

title
Pushpa: The Rise - Part 1
RRR
Baahubali: The Beginning

03

Query: 3

→ **Show the language and number of movies released in that language**



```
movies languages movie_actor
1
2 • select l.name, count(m.movie_id) as no_movies
3   from languages l
4   join movies m using (language_id)
5   group by language_id
6   order by no_movies desc
```

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

Result 4 ×

Query: 4

→ **Generate a report of all Hindi movies sorted by their revenue amount in millions.**

Print movie name, revenue, currency, and unit.

```
1 • select
2     title, revenue, currency, unit,
3     case
4         when unit = 'billions' then round(revenue*1000,2)
5         when unit = 'thousands' then round(revenue/1000,2)
6         else revenue
7     end revenue_mln
8 from movies
9 join languages l on movies.language_id = l.language_id
10 join financials f on movies.movie_id = f.movie_id
11 where l.name = 'hindi'
12 order by revenue_mln desc
```



title	revenue	currency	unit	revenue_mln
Bajrangi Bhaijaan	11690.00	INR	Millions	11690.00
PK	8540.00	INR	Millions	8540.00
Sanju	5.90	INR	Billions	5900.00
3 Idiots	4000.00	INR	Millions	4000.00
Bajirao Mastani	3.50	INR	Billions	3500.00
The Kashmir Files	3409.00	INR	Millions	3409.00
Race 3	3.10	TNR	Billions	3100.00

Query: 5

→ **Generate a report of movie name, and Actors names who's works in the movies.**



like this

title	actors
KGF2	Yash, Sanjay Dutt
Doctor Strange Multiverse	Benedict C, Elizabeth O

```

1 • SELECT
2     m.title as movies, group_concat(a.name separator ' | ') as actors
3   from movies m
4   join movie_actor ma on m.movie_id = ma.movie_id
5   join actors a on ma.actor_id = a.actor_id
6   group by m.movie_id
    
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
movies	actors			
K.G.F: Chapter 2	Yash Sanjay Dutt			
The Pursuit of Happyness	Will Smith Thandiwe Newton			
The Shawshank Redempti...	Tim Robbins Morgan Freeman			
Parasite	Song Kang-ho Lee Sun-kyun			
Shershaah	Sidharth Malhotra Kiara Advani			
Dilwale Dulhania Le Jayenge	Shah Rukh Khan Kajol			
Munna Bhai M.B.B.S.	Sanjay Dutt Sunil Dutt			
Avatar	Sam Worthington Zoe Saldana			
Jurassic Park	Sam Neill Laura Dern			
Bajrangi Bhaijaan	Salman Khan Nawazuddin Siddiqui			
Ro... ?	Salman Khan Aamir Khan...			
Result 23 ×				
Output				



Query: 6

→ **Generate a report of Actors name, along with their movies he worked upon.**



like this

actor	movies
Sanjay Dutt	KGF 2,Munna Bhai M.B.B.S.
Chris Hemsworth	Thor: The Dark World ,Thor: Love and Thunder ,Avengers: Endgame,Thor: Ragnarok ,Avengers: Infinity War

SQL File 3* × movies movie_actor actors

1 • **SELECT**

```

1 • SELECT
2     a.name as actors, group_concat(m.title separator ' | ') as movies
3   from actors a
4   join movie_actor ma on ma.actor_id = a.actor_id
5   join movies m on m.movie_id = ma.movie_id
6   group by a.actor_id

```

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

actors	movies
Aamir Khan	3 Idiots PK Taare Zameen Par
Al Pacino	The Godfather
Allu Arjun	Pushpa: The Rise - Part 1
Amitabh Bachchan	Sholay Kabhi Khushi Kabhie Gham

Result 26 ×

Output

Action Output



Query: 7

→ **Generate a report of actors names, showing number of movies they actored in most of the movies.**



SQL File 3* × movies movie_actor actors

```
1 • SELECT
2     a.name as actors, group_concat(m.title separator ' | ') as movies,
3     count(m.title) as movie_cnt
4   from actors a
5   join movie_actor ma on ma.actor_id = a.actor_id
6   join movies m on m.movie_id = ma.movie_id
7   group by a.actor_id
8   order by movie_cnt desc
```

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

actors	movies	movie_cnt
Chris Hemsworth	Thor: The Dark World Thor: Ragnarok Thor: Love and Thunder Ave...	5
Chris Evans	Avengers: Endgame Avengers: Infinity War Captain America: The First ...	4
Aamir Khan	3 Idiots PK Taare Zameen Par	3
Sanjay Dutt	K.G.F: Chapter 2 Munna Bhai M.B.B.S.	2
Shah Rukh Khan	Dilwale Dulhania Le Jayenge Kabhi Khushi Kabhie Gham	2
Leonardo DiCaprio	Titanic Inception	2
Natalie Portman	Thor: The Dark World Thor: Love and Thunder	2

result 28 ×

Output

Learning of the day:

- **JOIN** and **ON** clauses used together will enable you to merge two tables.
- By default, SQL performs an **INNER JOIN**
- **LEFT, RIGHT** and **FULL JOINS** are also called **OUTER JOIN**. **UNION** clause will enable you to perform **FULL JOIN**.
- **CROSS JOIN** is useful when you do not have any common column between two tables
- Entity Relationship Diagram (**ERD**) will help you to understand the relationship between the tables.
- **Group_Concat Function** will enable you to combine text from multiple rows to one row.



Found this Useful ?



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