

DAY 2

movies

financials

Sholay

Inception

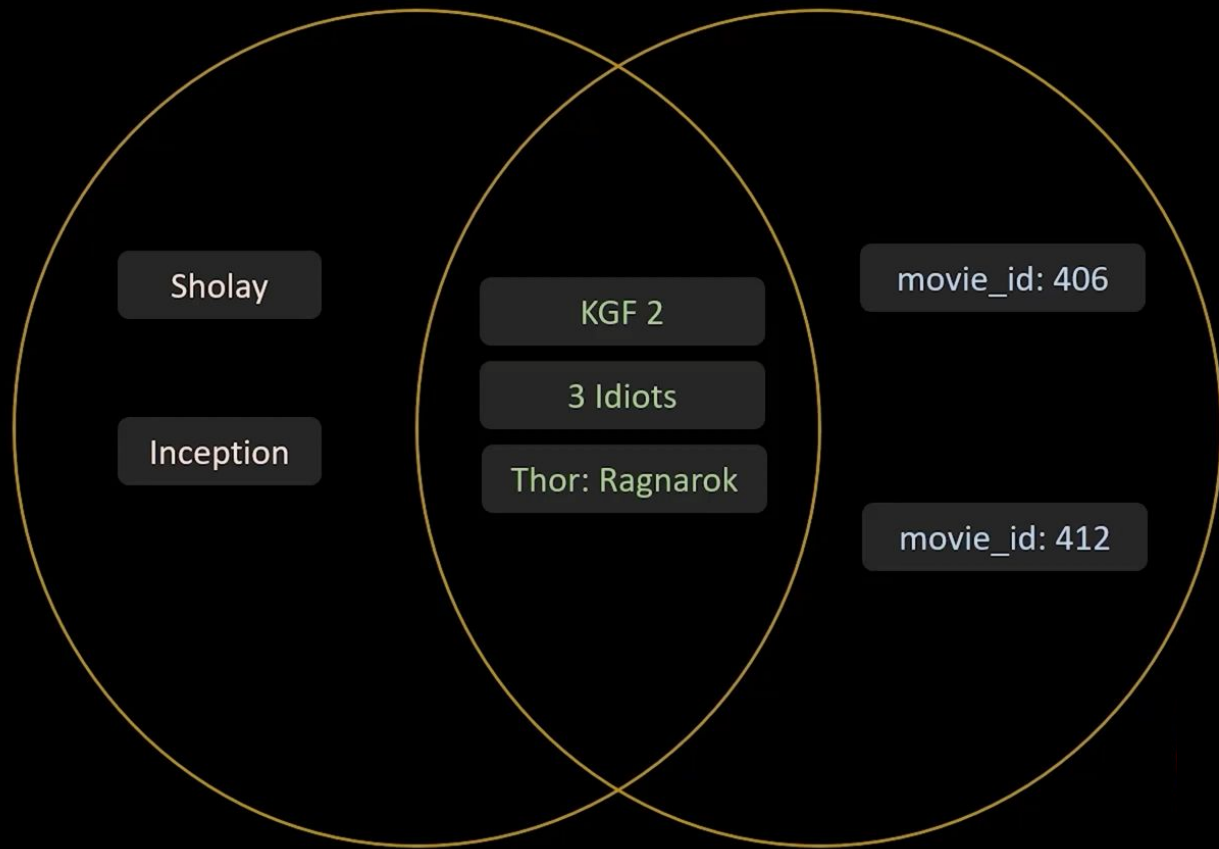
KGF 2

3 Idiots

Thor: Ragnarok

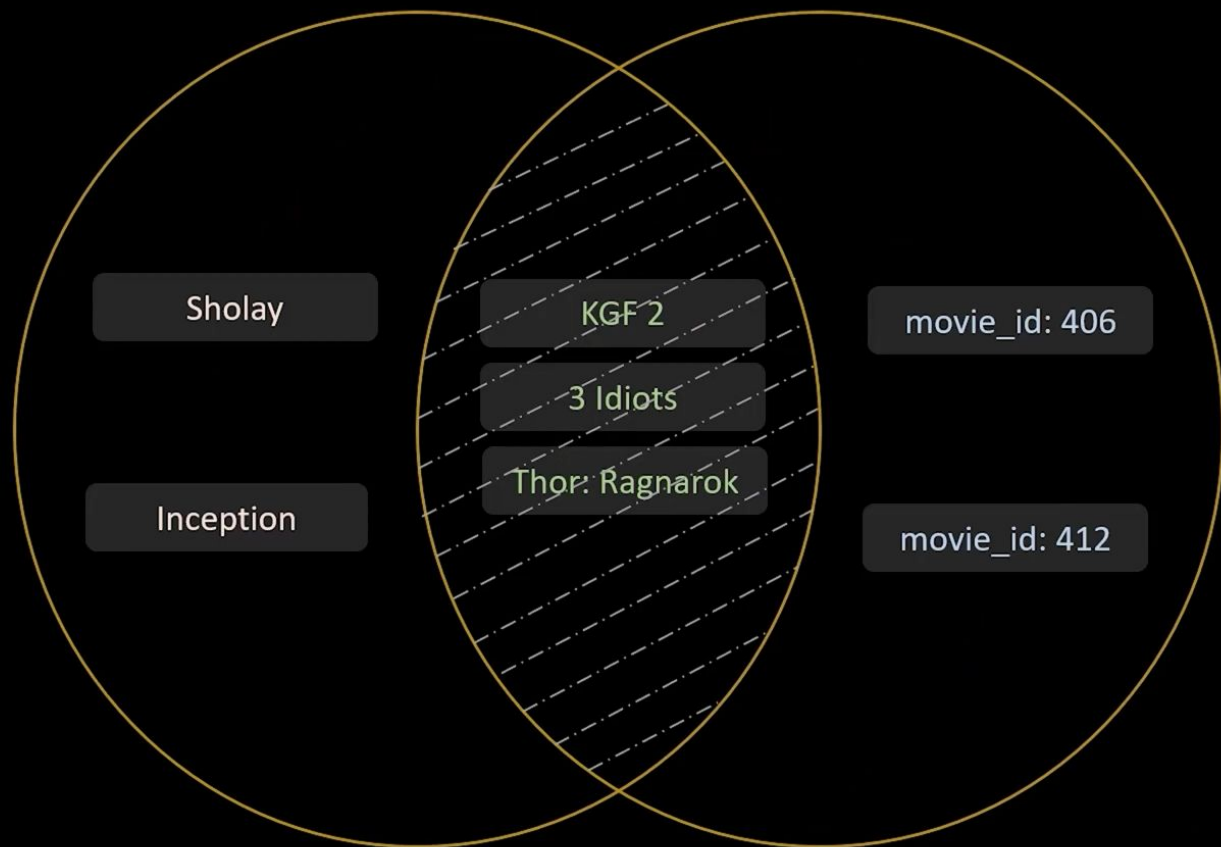
movie_id: 406

movie_id: 412



movies

financials



INNER JOIN

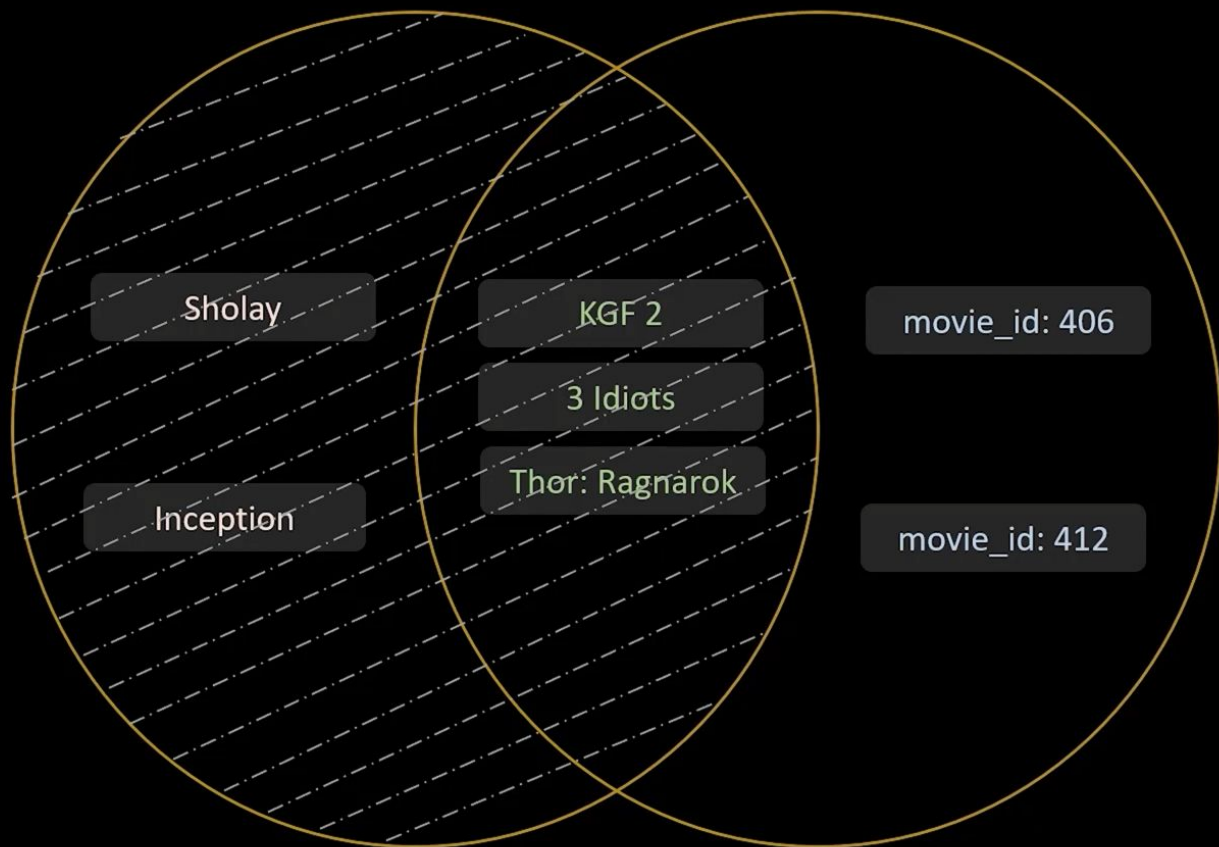
KGF 2

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movies

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LEFT JOIN

Sholay

Inception

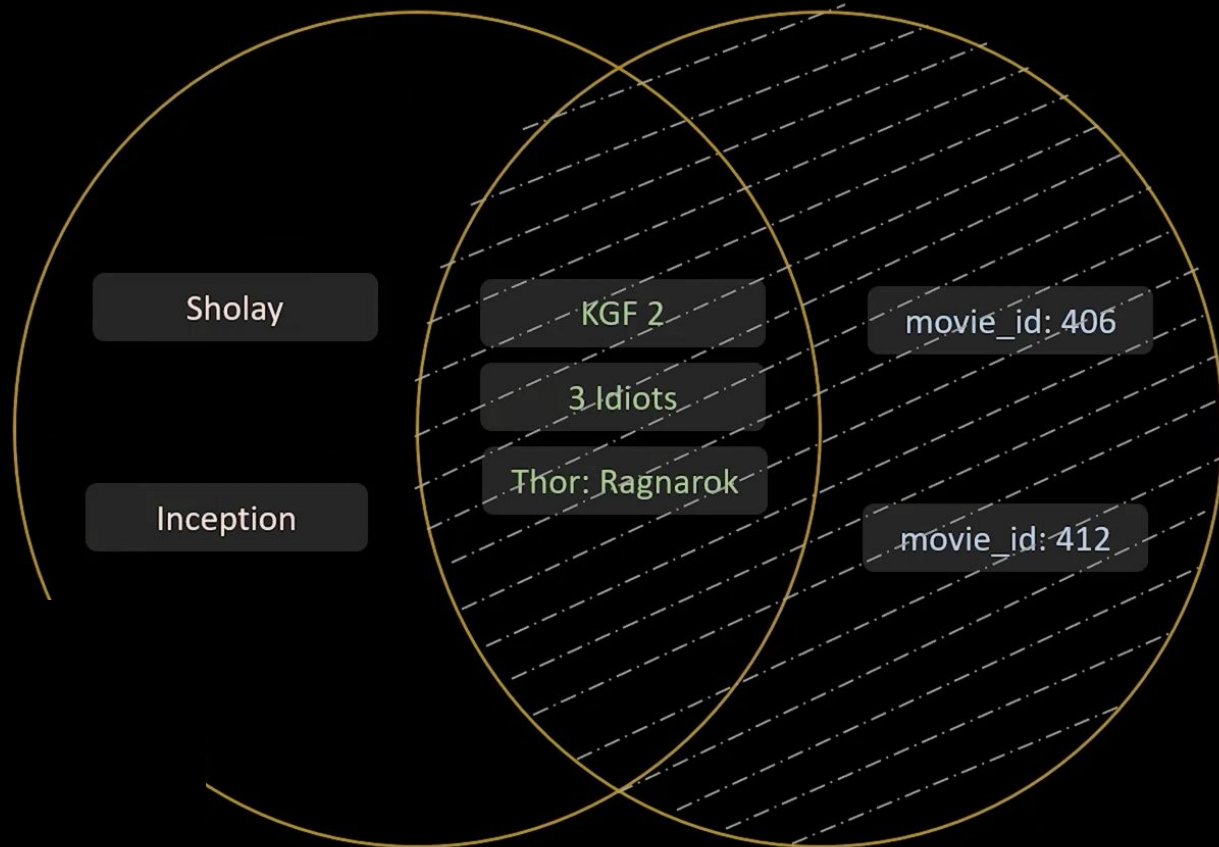
KGF 2

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RIGHT JOIN

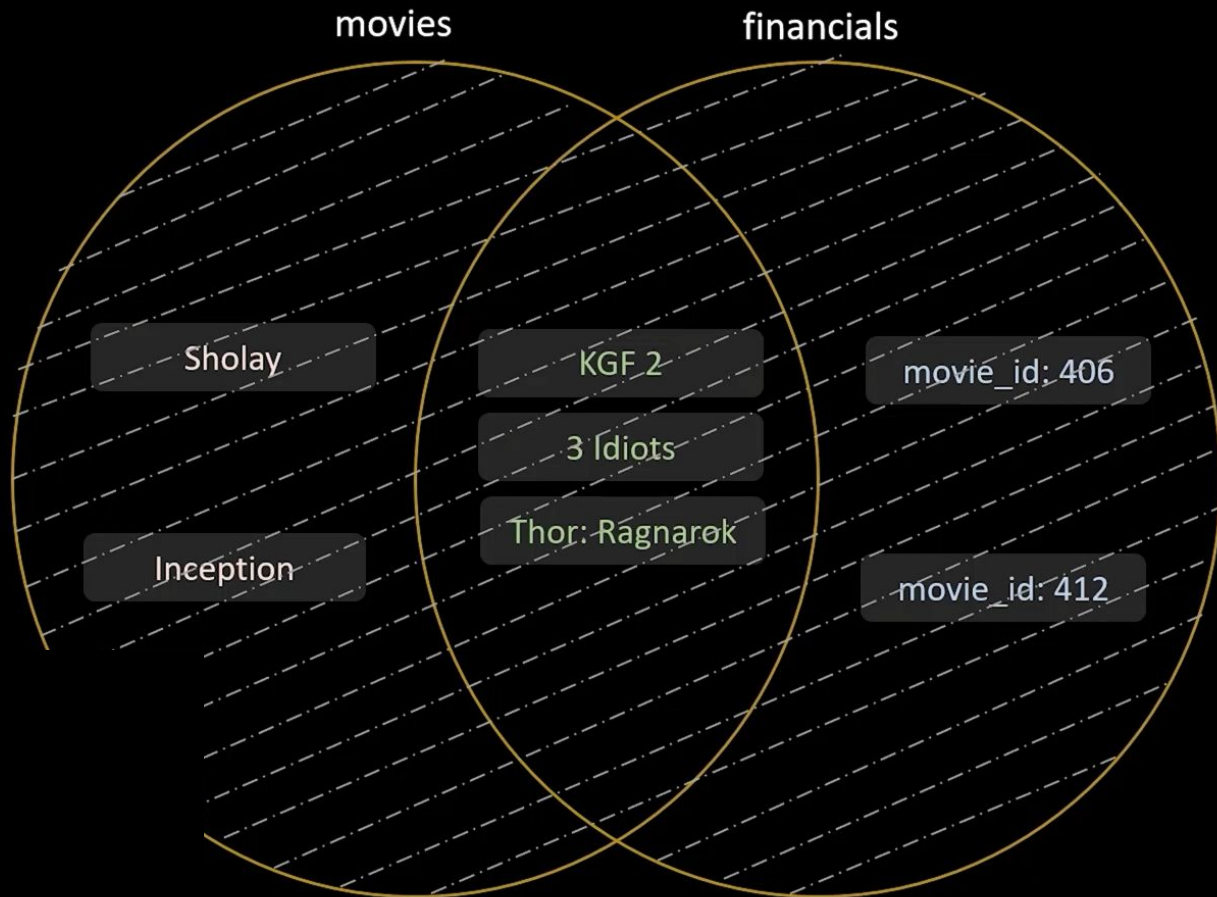
KGF 2

3 Idiots

Thor: Ragnarok

movie_id: 406

movie_id: 412



FULL JOIN

Sholay

Inception

KGF 2

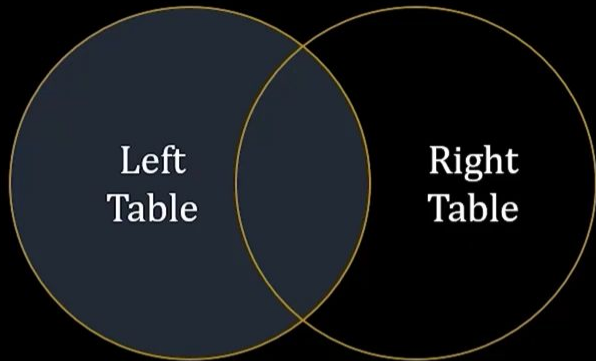
3 Idiots

Thor: Ragnarok

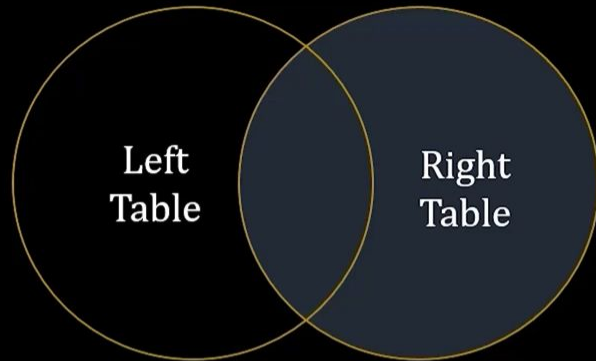
movie_id: 406

movie_id: 412

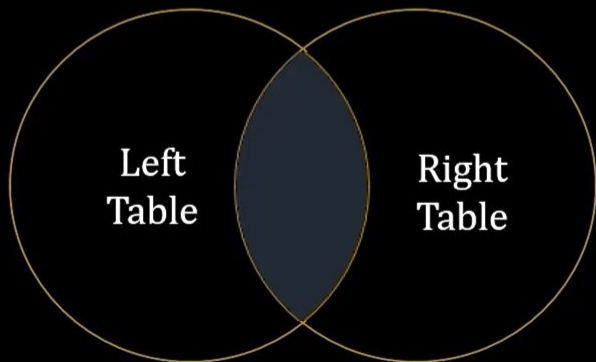
LEFT JOIN



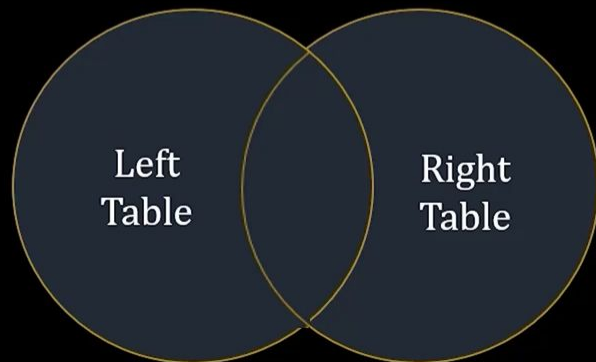
RIGHT JOIN



INNER JOIN

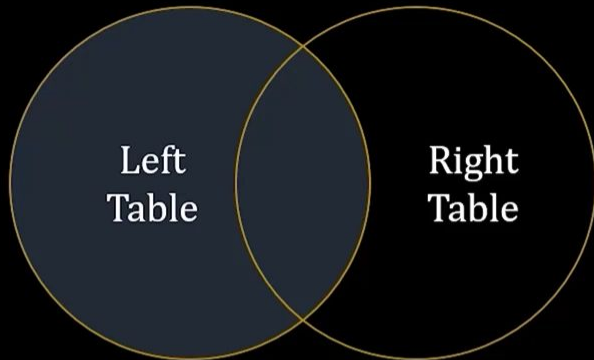


FULL JOIN

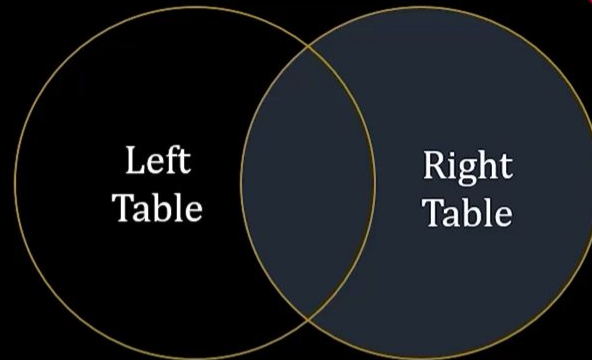


Outer Joins

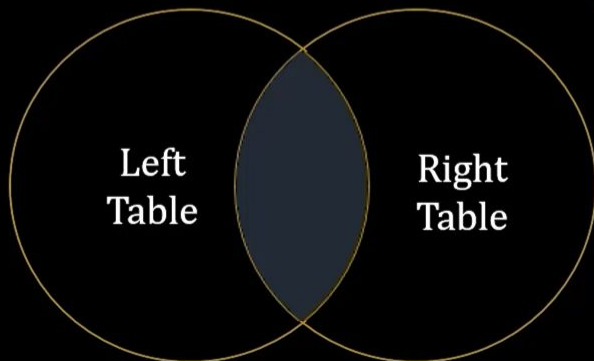
LEFT JOIN



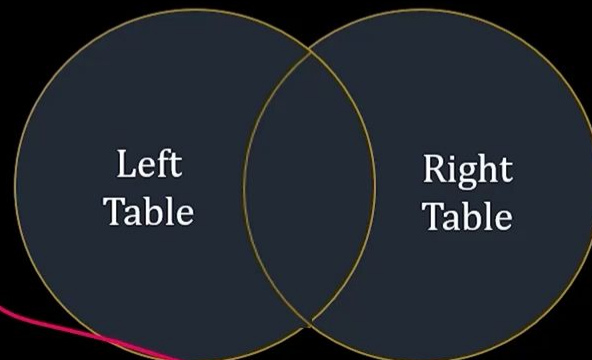
RIGHT JOIN



INNER JOIN



FULL JOIN



Takeaways

- **JOIN** and **ON** clauses used together will enable you to merge two tables
- **JOIN, ON & AND** clause will enable you to merge two tables based on multiple columns
- There is an export button in SQL editor through which you can **download results as .csv file**
- You can assign an abbreviated letter next to the table name to **shorten the query length**
- There are multiple kinds of JOIN in SQL: **INNER, LEFT, RIGHT, FULL and CROSS JOIN**
- 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

Takeaways

- **Concatenation** means combining two text strings together
- **CONCAT** clause in SQL will help you combine two text strings
- Knowing **Excel** will help in your understanding of SQL
- **CROSS JOIN** is useful when you do not have any common column between two tables

Takeaways

- Whenever you get a requirement from a business stakeholder break the challenge down into simpler pieces before writing a query.
- **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.

Takeaways

- You would need to merge the tables often to create **meaningful insights for business**
- Spend time to **understand JOIN** thoroughly as you will use it a lot in SQL
- Finding **TOP N / BOTTOM N** is another common business use case which you can achieve by ORDER BY

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

movies

movie_id	title
101	KGF2
102	Doctor Strange Multiverse

movie_actor

movie_id	actor_id
101	50
101	51
102	52
102	53

actors

actor_id	name
50	Yash
51	Sanjay Dutt
52	Benedict C
53	Elizabeth O

movie_actor table is also called **link table** as it links two tables "movies" and "actors"

movies

movie_id	title
101	KGF2
102	Doctor Strange Multiverse

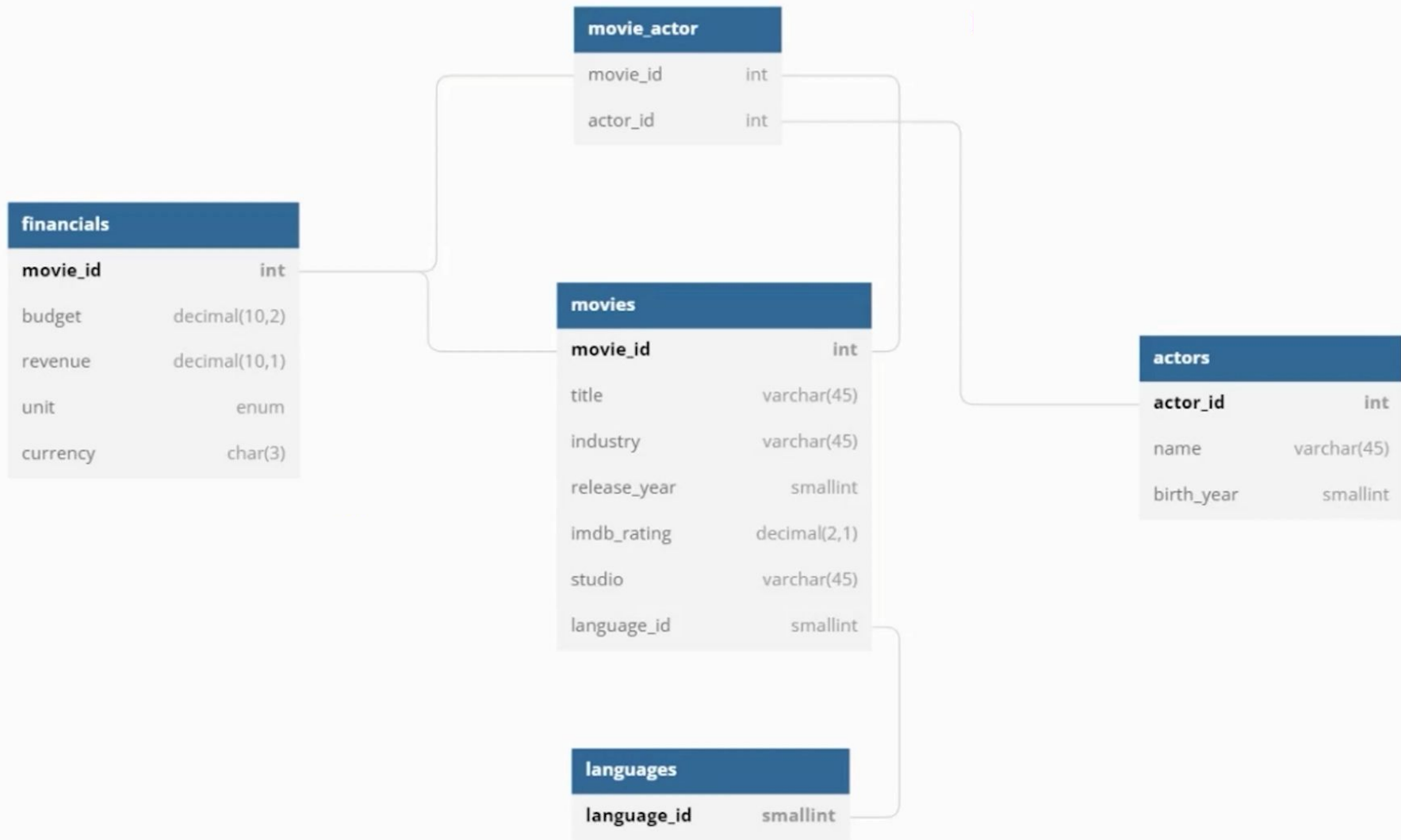
movie_actor

movie_id	actor_id
101	50
101	51
102	52
102	53

actors

actor_id	name
50	Yash
51	Sanjay Dutt
52	Benedict C
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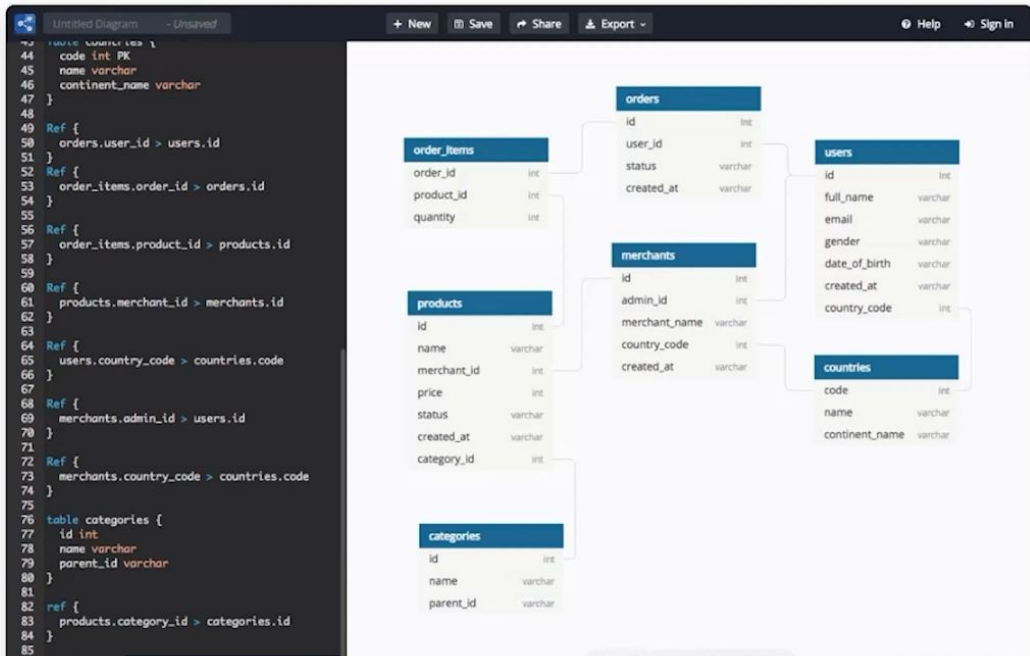


built by  holistics

Draw Entity-Relationship Diagrams, Painlessly 🧐

A free, simple tool to draw ER diagrams by just writing code.
Designed for developers and data analysts.

1M+ diagrams created

[Create your diagram](#)

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

actors

actor_id	name
51	Sanjay Dutt
54	Chris Hemsworth

movie_id	actor_id
101	51
129	51
103	54
104	54
105	54
125	54
126	54

movie_id	title
101	KGF2
129	Munnabhai MBBS
103	Thor: The Dark,
104	Thor: Love and Thunder
105	World Avengers: Endgame
125	Thor: Ragnarok
126	Avengers: Infinity War

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