

Projects
► Foreign Keys
► Triggers
movies
▼ Columns
◆ id
◆ original_title
◆ budget
◆ popularity
◆ release_date
◆ revenue
◆ title
◆ vote_average
◆ vote_count
◆ overview
◆ tagline
◆ uid
◆ director_id
► Indexes
► Foreign Keys
tion Schemas

3 -- Q1. Can you get all data about movies?

4

5 -- In this we use left join , the left table is movies and the right table is Directors when we join 2 tables all the Records

6 -- from the Left table remains same and the common(Matched) records from the right table, and there is no match the results contain

7 -- null from the directors table.

8

9 • select m.director_id, m.original_title,m.budget,m.popularity,m.release_date,m.revenue,m.title,m.vote_average,

10 m.vote_count,m.overview,m.tagline,d.name,d.id,d.department

11 from movies as m

12 left join directors as d

13 on m.director_id = d.id;

14

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

director_id	original_title	budget	popularity	release_date	revenue	title	vote_average	vote_count	over
4762	Avatar	237000000	150	2009-12-10	2787965087	Avatar	7.2	11800	In the
4763	Pirates of the Caribbean: At World's End	300000000	139	2007-05-19	961000000	Pirates of the Caribbean: At World's End	6.9	4500	Capt
4764	Spectre	245000000	107	2015-10-26	880674609	Spectre	6.3	4466	A cry
4765	The Dark Knight Rises	250000000	112	2012-07-16	1084939099	The Dark Knight Rises	7.6	9106	Follow
4766	John Carter	260000000	43	2012-03-07	284139100	John Carter	6.1	2124	John
4767	Spider-Man 3	258000000	115	2007-05-01	890871626	Spider-Man 3	5.9	3576	The s
4768	Tangled	260000000	48	2010-11-24	591794936	Tangled	7.4	3330	Wher
4769	Avengers: Age of Ultron	280000000	134	2015-04-22	1405403694	Avengers: Age of Ultron	7.3	6767	Wher
4770	Harry Potter and the Half-Blood Prince	250000000	98	2009-07-07	033050107	Harry Potter and the Half-Blood Prince	7.4	5703	As Ho

Result 3 ▾

Read Only

Objects

Tables

- directors
 - Columns
 - ◆ name
 - ◆ id
 - ◆ gender
 - ◆ uid
 - ◆ department
- Indexes
- Foreign Keys
- Triggers

movies

- Columns
- ◆ id
- ◆ original_title
- ◆ budget
- ◆ popularity
- ◆ release_date
- ◆ revenue

Schemas

```

1 -- Q2. How do you get all data about directors?
2
3 -- We use Left join, directors table as left table and movies table as right. All the records from the directors table(Left table)
4 -- and the matching records from the movies table(Right table). If there is no matching records from the Right table
5 -- the records contain NULL values.
6
7 • select *
8   from directors as d left join movies as m
9   on d.id = m.director_id;
10

```

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

	name	id	gender	uid	department	id	original_title	budget	popularity	release_date	revenue	title
▶	James Cameron	4762	2	2710	Directing	43597	Avatar	237000000	150	2009-12-10	2787965087	Avatar
▶	Gore Verbinski	4763	2	1704	Directing	43598	Pirates of the Caribbean: At World's End	300000000	139	2007-05-19	961000000	Pirates of the Caribbean: At World's End
▶	Sam Mendes	4764	2	39	Directing	43599	Spectre	245000000	107	2015-10-26	880674609	Spectre
▶	Christopher Nolan	4765	2	525	Directing	43600	The Dark Knight Rises	250000000	112	2012-07-16	1084939099	The Dark Knight Rises
▶	Andrew Stanton	4766	2	7	Directing	43601	John Carter	260000000	43	2012-03-07	284139100	John Carter
▶	Sam Raimi	4767	2	7623	Directing	43602	Spider-Man 3	258000000	115	2007-05-01	890871626	Spider-Man 3
▶	Byron Howard	4768	2	76595	Directing	43603	Tangled	260000000	48	2010-11-24	591794936	Tangled
▶	Joss Whedon	4769	2	12891	Directing	43604	Avengers: Age of Ultron	280000000	134	2015-04-22	1405403694	Avengers: Age of Ultron
▶	David Yates	4770	2	11343	Directing	43605	Harry Potter and the Half-Blood Prince	250000000	98	2009-07-07	933959197	Harry Potter and the Half-Blood Prince
▶	Bryan Singer	4772	2	9032	Directing	43607	Superman Returns	270000000	57	2006-06-28	391081192	Superman Returns

1 -- Q3. Check how many movies are present in IMDB.
2
3 • select count(distinct title) as "No. of Movies"
4 from movies;
5

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

No. of Movies
47

Action Output

#	Time	Action	Message	Duration / Fetch
12	16:00:25		Error Code: 2003 Unable to connect to 18.136.157.135:3306	
13	17:05:00	select count(distinct title) from movies LIMIT 0, 50000	1 row(s) returned	0.062 sec / 0.0
14	17:05:42	select count(distinct title) as "No. of Movies" from movies LIMIT 0, 50000	1 row(s) returned	0.047 sec / 0.0
15	17:05:59	select count(distinct title) as "No. of Movies" from movies LIMIT 0, 50000	1 row(s) returned	0.047 sec / 0.0

project_movie_database

Tables

directors

Columns

- name
- id
- gender
- uid
- department

Indexes

Foreign Keys

Triggers

movies

Columns

- id
- original_title
- budget
- popularity
- release_date

Schemas

vote_average

vote: double

1 -- Q4. Find these 3 directors: James Cameron ; Luc Besson ; John Woo

2

3 • select * from directors

4 where name in ('James Cameron','Luc Besson','John Woo');

5

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	name	id	gender	uid	department
▶	James Cameron	4762	2	2710	Directing
▶	John Woo	4893	2	11401	Directing
▶	Luc Besson	4949	2	59	Directing
*	NULL	NULL	NULL	NULL	NULL

directors 5 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	17:18:51	SELECT * FROM project_movie_database.movies LIMIT 0, 50000	47 row(s) returned	0.094 sec / 0.000
20	17:19:05	SELECT * FROM project_movie_database.directors LIMIT 0, 50000	2349 row(s) returned	0.140 sec / 0.047
21	17:22:12	select m.original_title,d.name from movies as m left join directors as d on m.director_id = d.id	2 row(s) returned	0.063 sec / 0.000
22	17:23:03	select * from directors where name in ('James Cameron','Luc Besson','John Woo')	3 row(s) returned	0.047 sec / 0.000

movie_database

Tables

directors

Columns

- name
- id
- gender
- uid
- department

Indexes

Foreign Keys

Triggers

movies

Columns

- id
- original_title
- budget
- popularity
- release_date

Schemas

note_average

: average double

1 -- Q5. Find all directors with name starting with S.

2

3 • select * from directors

4 where name like 'S%' ;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	name	id	gender	uid	department
▶	Sam Mendes	4764	2	39	Directing
	Sam Raimi	4767	2	7623	Directing
	Shane Black	4784	2	1108	Directing
	Steven Spielberg	4799	2	488	Directing
	Stephen Sommers	4815	2	7775	Directing
	Shawn Levy	4842	2	17825	Directing
	Steve Hickner	4852	2	44113	Directing
	Simon Wells	4855	2	21879	Directing
	Steven Soderbergh	4909	2	1884	Directing
	Simon West	4930	2	12786	Directing
	Stefen Fangmeier	4931	0	25453	Directing
	Spike Jonze	4932	2	5953	Directing
	Steve Martino	4943	2	71729	Directing
	Sergei Bodrov	4952	0	130938	Directing

directors 2 ×

Output

Apply

ect_movie_database

tables

directors

Columns

- name
- id
- gender
- uid
- department

Indexes

Foreign Keys

Triggers

movies

Columns

- id
- original_title
- budget
- popularity
- release_date

Schemas

: vote_average

on:

_average double

1 -- Q6. Count female directors.

2

3 -- For female, gender = 1 is given in the Directors table.

4

5 • select count(distinct name) as No_of_Female_Director

6 from directors

7 where gender = 1;

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

No_of_Female_Director
150

Result 2 x

Output

cts

directors

Columns

- ◆ name
- ◆ id
- ◆ gender
- ◆ uid
- ◆ department

Indexes

Foreign Keys

Triggers

movies

Columns

- ◆ id
- ◆ original_title
- ◆ budget
- ◆ popularity
- ◆ release_date
- ◆ revenue
- ◆ title

Schemas

: release_date

n: latin1_swedish_ci

on: . . .

1 -- Q7. Find the name of the 10th first women directors?

2

3 • select * from directors

4 where gender = 1

5 order by id

6 limit 1 offset 9;

7

8 -- Angelina Jolie is the 10th First Women Director.

9

10

11

Result Grid | Filter Rows: [] | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows: |

	name	id	gender	uid	department
▶	Angelina Jolie	5086	1	11701	Directing
*	HULL	HULL	HULL	HULL	HULL

directors 8 ×

Output

Action Output

Apply Revert

Result Grid

Form Editor

objects

project_movie_database

- Tables
 - directors
 - movies
- Views
- Stored Procedures
- Functions

-- Q8. What are the 3 most popular movies?

```
1
2
3 • select original_title , popularity
4   from movies
5   order by popularity desc
6   limit 3;
7
8 -- Three popular movies are 'Jurassic World' , 'Captain America: Civil War' , 'Avatar'
9
10
```

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

original_title	popularity
Jurassic World	418
Captain America: Civil War	198
Avatar	150

movies 1 ×

Output

MAS

project_movie_database

- Tables
- directors
- movies
- Views
- Stored Procedures
- Functions

```
1 -- Q9. What are the 3 most bankable movies?
2
3 • select original_title , revenue, budget , (revenue - budget) as profit
4   from movies
5   order by (revenue - budget) desc
6   limit 3;
7
8 -- The three most bankable movies are 'Avatar', 'Titanic' , 'Jurassic World'.
9
```

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

	original_title	revenue	budget	profit
▶	Avatar	2787965087	237000000	2550965087
	Titanic	1845034188	200000000	1645034188
	Jurassic World	1513528810	150000000	1363528810

Result 1 ×

Output

IAS
er objects

project_movie_database
Tables
► directors
► movies
Views
Stored Procedures
Functions

```
1 -- Q10. What is the most awarded average vote since the January 1st, 2000?  
2  
3 • select original_title, vote_average  
4   from movies  
5   where release_date > '2000-01-01'  
6   order by vote_average desc  
7   limit 1
```

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

	original_title	vote_average
▶	The Dark Knight Rises	7.6

movies 1 x

Output

! Read

IAS

project_movie_database

- Tables
 - directors
 - movies
- Views
- Stored Procedures
- Functions

```
1 -- Q11. Which movie(s) were directed by Brenda Chapman?  
2  
3 -- Method 1 : Using Join  
4 • select m.original_title, d.name  
5   from movies as m inner join directors as d  
6   on m.director_id = d.id  
7   where d.name like 'Brenda Chapman';  
8  
9 -- Method 2 : Using Subquery  
10 • select original_title from movies  
11   where director_id in (select id from directors  
12     where name = 'Brenda Chapman');  
13  
14 -- No records were returned, which means Brenda Chapman has no movies associated with her.
```

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

original_title	name

Result 2 ×

Output

object selected

Result Grid

Form Editor

Read Only

Filter objects

project_movie_database

- Tables
 - directors
 - movies
- Views
- Stored Procedures
- Functions

```

1  -- Q13. Which director is the most bankable?
2  -- ----- Method 1: Sub-Query
3 •   select name from directors
4   where id in (select director_id from
5       (select director_id , sum(revenue-budget) as total_Profit from movies    -- Revenue alone cannot reflect Profitability
6           group by director_id
7           order by sum(revenue-budget) desc ) as c)
8   limit 1 ;
9
10 -- ----- Method 2: Joins
11 •  select d.name as Director_name , sum(m.revenue - m.budget) as Total_Profit from movies as m inner join directors as d
12  on m.director_id = d.id
13  group by Director_name
14  order by Total_Profit desc
15  limit 1 ;
16
17 -- James Cameron is the most bankable Director because hs movies generate the highest Total Revenue.

```

Director_name	Total_Profit
James Cameron	4195999275

No object selected

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

Result 1 ×

Read Only

EMAS

Filter objects

project_movie_database

Tables
directors
movies
Views
Stored Procedures
Functions

Information

No object selected

Object Info Session

```
1 -- Q12. Which director made the most movies?
2 -- ----- Method 1 : Joins
3 • select d.name as Director_name , count(m.director_id) as No_of_Movies
4 from movies as m inner join directors as d on m.director_id = d.id
5 group by d.name
6 order by count(m.director_id) desc
7 limit 3;
8
9 -- ----- Method 2 : Subquery
10 • select name
11 from directors
12 where id in
13     (select director_id
14      from (select director_id , count(director_id) from movies
15            group by director_id
16            order by count(director_id) desc) as c)
17 limit 3;
18 -- Gore Verbinski, Sam Raimi and Peter Jackson have directed the highest number of movies. with 3 Movies Each.
```

name
Peter Jackson
Gore Verbinski
Sam Raimi

directors 1 ×

Re