

----- CinelInsight: Analyzing IMDb's Movie_Database Through _SQL -----

----- Project_by_ Subhadeep Das -----

-- create schema

```
create schema imdb;
```

-- use database

```
use imdb;
```

-- create table director

```
create table director(name varchar(100) not null, id int not null, gender varchar(10) not null,
uid int not null, department varchar(100) not null, primary key(uid));
```

-- change 0 1 2 to respective gender

```
UPDATE director
```

```
SET gender = CASE
```

```
    WHEN gender = 0 THEN 'other'
```

```
    WHEN gender = 1 THEN 'female'
```

```
    WHEN gender = 2 THEN 'male'
```

```
END;
```

	A	B	C	D	E
1	name	id	gender	uid	department
44	Robert Zemeckis	4804	2	24	Directing
45	Lilly Wachowski	4805	1	9339	Directing
46	Pete Docter	4806	2	12890	Directing
47	Conrad Vernon	4807	2	12080	Directing
48	Jon Favreau	4808	2	15277	Directing
49	Martin Scorsese	4809	2	1032	Directing
50	Rob Cohen	4810	2	18878	Directing

previously

-- show table director

```
select * from director;
```

Result Grid					
Filter Rows: <input type="text"/>					
Edit:					
	name	id	gender	uid	department
▶	George Lucas	4901	male	1	Directing
	Andrew Stanton	4766	male	7	Directing
	Lee Unkrich	4792	male	8	Directing
	Robert Zemeckis	4804	male	24	Directing
	Sam Mendes	4764	male	39	Directing
	Luc Besson	4949	male	59	Directing
	Peter Jackson	4777	male	108	Directing
	Quentin Tarantino	4927	male	138	Directing
	Clint Eastwood	5087	male	190	Directing
	David Silverman	5050	male	197	Directing
	Michel Gondry	4911	male	201	Directing
	Alejandro Gonz��lez	4874	male	223	Directing
	David Cronenberg	5229	male	224	Directing
	Stanley Kubrick	5089	male	240	Directing
	Terry Gilliam	5014	male	280	Directing

now

-- create table movies

```
create table movies(id int not null, title varchar(100) not null, budget bigint not null, popularity int not null,
release_date date not null, revenue bigint, vote_count int not null,
uid int not null, director_id int not null,
primary key(id));
```

```
select * from movies;
```

----- BASIC ANALYSIS -----

```
select * from director where name in('James Cameron', 'Luc Besson', 'John Woo');
```

-- Q2. Count the female directors

```
select count(*) from director where gender = 'female';
```

-- O3. What are the 3 most popular movies

```
select * from movies order by popularity desc limit 3;
```

-- 04. What are 3 most bankable movies

```
select * from movies order by budget desc limit 3;
```

[illegible]

-- Q5. Which is the most profitable movie since Jan 1st, 2010

select * from movies where release_date > '2010-01-01' order by revenue desc limit 1;

Result Grid		Filter Rows:			Edit:		Export/Import:		Wrap Cell Content:	
	id	title	budget	popularity	release_date	revenue	vote_count	uid	director_id	
▶	43613	The Avengers	220000000	144	2012-04-25	1519557910	11776	24428	4769	
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

----- JOINS -----

-- Q6. Which movie(s) were directed by Brenda Chapman

select title from movies join director on movies.director_id = director.id where director.name = 'Brenda Chapman';

Result Grid
title
Brave

-- Q7. Give the title, release date, budget, revenue, popularity movies made by Steven Spielberg

select title, release_date, budget, revenue, popularity from movies join director on movies.director_id = director.id where director.name = 'Steven Spielberg';

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	title	release_date	budget	revenue	popularity
▶	Indiana Jones and the Kingdom of the Crystal S...	2008-05-21	185000000	786636033	75
	The BFG	2016-06-01	140000000	183345589	44
	War of the Worlds	2005-06-28	132000000	591739379	48
	The Adventures of Tintin	2011-10-25	130000000	371940071	89

----- REVENUE ANALYSIS -----

-- Q8. Find the top 10 highest revenue making movies

select title from movies order by revenue limit 10;

Result Grid	Filter Rows:
title	revenue
Titanic	1845034188
The Avengers	1519557910
Jurassic World	1513528810
Furious 7	1506249360
Avengers: Age of Ultron	1405403694
Frozen	1274219009
Iron Man 3	1215439994
Captain America: Civil War	1153304495
Transformers: Dark of the Moon	1123746996
Skyfall	1108561013

-- Q9. Find the average budget and revenue for movies directed by female directors.

select name, avg(budget), avg(revenue) from movies join director where director.gender = 'female' group by director.name;

Result Grid			
		Filter Rows:	
		Export:	
	name	avg(budget)	avg(revenue)
▶	Jennifer Yuh Nelson	164453051.6573	510089126.8592
	Phyllida Lloyd	164453051.6573	510089126.8592
	Brenda Chapman	164453051.6573	510089126.8592
	Karyn Kusama	164453051.6573	510089126.8592
	Mimi Leder	164453051.6573	510089126.8592
	Betty Thomas	164453051.6573	510089126.8592
	Beeban Kidron	164453051.6573	510089126.8592
	Nancy Meyers	164453051.6573	510089126.8592
	Penny Marshall	164453051.6573	510089126.8592
	Kathryn Bigelow	164453051.6573	510089126.8592
	Vicky Jenson	164453051.6573	510089126.8592
	Angelina Jolie	164453051.6573	510089126.8592
	Lilly Wachowski	164453051.6573	510089126.8592
	Jill Culton	164453051.6573	510089126.8592
	Angela Robinson	164453051.6573	510089126.8592

-- Q10. Calculate the month with the highest average revenue across all years

select month(release_date), avg(revenue) from movies group by month(release_date) order by avg(revenue) desc limit 1;

Result Grid		
		Filter Rows:
	month(release_date)	avg(revenue)
▶	4	762036115.8750

----- THE END -----