

1. Find a movie title that has a character named Alice Harford

```
SELECT mov_title
FROM movie
JOIN movie_cast ON movie.mov_id = movie_cast.mov_id
WHERE role = 'Alice Harford';
```

Answer no.1: Eyes Wide Shut

	mov_title character varying
1	Eyes Wide Shut

2. Find each genre of each movies

```
SELECT movie.mov_title, genres.gen_title
FROM movie
JOIN movie_genres ON movie.mov_id = movie_genres.mov_id
JOIN genres ON movie_genres.gen_id = genres.gen_id
ORDER BY movie.mov_title;
```

Answer no 2:

	mov_title character varying	gen_title character varying
1	Aliens	Action
2	American Beauty	Romance
3	Annie Hall	Comedy
4	Back to the Future	Drama
5	Beyond the Sea	Music
6	Blade Runner	Thriller
7	Deliverance	Adventure
8	Eyes Wide Shut	Mystery
9	Lawrence of Arabia	Adventure
10	Princess Mononoke	Animation
11	Seven Samurai	Drama
12	Slumdog Millionaire	Drama
13	Spirited Away	Mystery
14	The Deer Hunter	War
15	The Innocents	Horror
16	The Shawshank Redemption	Crime
17	The Usual Suspects	Crime
18	Trainspotting	Drama
Total rows: 19 of 19		Query complete 00:00:00.15

Jawaban lengkap:

	mov_title	gen_title
1	Aliens	Action
2	American Beauty	Romance
3	Annie Hall	Comedy
4	Back to the Future	Drama
5	Beyond the Sea	Music
6	Blade Runner	Thriller
7	Deliverance	Adventure
8	Eyes Wide Shut	Mystery
9	Lawrence of Arabia	Adventure
10	Princess Mononoke	Animation
11	Seven Samurai	Drama
12	Slumdog Millionaire	Drama
13	Spirited Away	Mystery
14	The Deer Hunter	War
15	The Innocents	Horror
16	The Shawshank Redemption	Crime
17	The Usual Suspects	Crime
18	Trainspotting	Drama
19	Vertigo	Mystery

3. Find the most favorite genre (using average rating of each genre)

```

SELECT genres.gen_title, AVG(rating.rev_stars) AS avg_rating
FROM genres
JOIN movie_genres ON genres.gen_id = movie_genres.gen_id
JOIN movie ON movie_genres.mov_id = movie.mov_id
JOIN rating ON movie.mov_id = rating.mov_id
GROUP BY genres.gen_title
ORDER BY avg_rating DESC
LIMIT 1;

```

Answer no 3:

Gen_title = Crime

Avg_rating = 8.6

	gen_title character varying	avg_rating numeric
1	Crime	8.6000000000000000

4. Find what year that has most movies (movies of each year)

```

SELECT mov_year, COUNT(*) AS movie_count

```

```
FROM movie
GROUP BY mov_year
ORDER BY movie_count DESC
LIMIT 1;
```

Answer no.4:
Mov_year = 1997
Movie_count = 4

	mov_year integer	movie_count bigint
1	1997	4

5. Find actor that has played as Sean Maguire

```
SELECT actor.act_fname, actor.act_lname
FROM movie_cast
JOIN actor ON movie_cast.act_id = actor.act_id
WHERE movie_cast.role = 'Sean Maguire';
```

Answer no.5:
Robin Williams

	act_fname character varying	act_lname character varying
1	Robin	Williams

6. Find a movie with the lowest rating

```
SELECT movie.mov_title, rating.rev_stars
FROM movie
JOIN rating ON movie.mov_id = rating.mov_id
WHERE rating.rev_stars IS NOT NULL
ORDER BY rating.rev_stars ASC
LIMIT 1;
```

Answer no.6:
Mov_title = Boogie Nights
Rev_stars = 3

	mov_title character varying	rev_stars numeric
1	Boogie Nights	3.00

7. Find how many female actor who acted in 21st century

```
SELECT COUNT(DISTINCT actor.act_id) AS female_actors_count
```

```

FROM actor
JOIN movie_cast ON actor.act_id = movie_cast.act_id
JOIN movie ON movie_cast.mov_id = movie.mov_id
WHERE actor.act_gender = 'F'
AND movie.mov_year >= 2000;

```

Answer no.7: 1

	female_actors_count bigint
1	1

8. Find actor that has played in more than one movie

Scripting 1 untuk menghitung jumlah movie per actor:

```

SELECT actor.act_id, actor.act_fname, actor.act_lname, COUNT(*) AS movie_count
FROM actor
JOIN movie_cast ON actor.act_id = movie_cast.act_id
GROUP BY actor.act_id, actor.act_fname, actor.act_lname
ORDER BY movie_count DESC;

```

	act_id [PK] integer	act_fname character varying	act_lname character varying	movie_count bigint
1	114	Kevin	Spacey	2
2	113	Tim	Robbins	1
3	120	Maggie	Gyllenhaal	1
4	107	Nicole	Kidman	1
5	110	Mark	Wahlberg	1
6	101	James	Stewart	1
7	115	Kate	Winslet	1
8	108	Stephen	Baldwin	1
9	118	Ewan	McGregor	1
10	116	Robin	Williams	1
11	103	Peter	OTOole	1
12	121	Dev	Patel	1
13	104	Robert	De Niro	1
14	105	F. Murray	Abraham	1
15	109	Jack	Nicholson	1
16	106	Harrison	Ford	1
17	112	Claire	Danes	1
18	119	Christian	Bale	1
Total rows: 22 of 22		Query complete 00:00:00.152		

Scripting 2 untuk mencari nama actor yang bermain film lebih dari 1 kali:

```
SELECT actor.act_id, actor.act_fname, actor.act_lname, COUNT(movie_cast.mov_id) AS
movie_count
FROM actor
JOIN movie_cast ON actor.act_id = movie_cast.act_id
GROUP BY actor.act_id, actor.act_fname, actor.act_lname
HAVING COUNT(movie_cast.mov_id) > 1
ORDER BY movie_count DESC;
```

Answer no 8: **Kevin Spacey**

	act_id [PK] integer	act_fname character varying	act_lname character varying	movie_count bigint
1	114	Kevin	Spacey	2

9. Find female actor whose movies received a highest rating

Scripting pertama:

```
select * from movie_cast mc
inner join actor a on mc.act_id = a.act_id
inner join rating r on r.mov_id = mc.mov_id
where a.act_gender = 'F'
order by rev_stars desc;
```

Answer:

	act_id integer	mov_id integer	role character varying	act_id integer	act_fname character varying	act_lname character varying	act_gender character varying	mov_id integer	rev_id integer	rev_stars numeric	num_o_ratings integer
1	112	912	San	112	Claire	Danes	F	912	9011	8.40	[null]
2	122	922	Ripley	122	Sigourney	Weaver	F	922	9019	8.40	511613
3	120	920	Elizabeth Darko	120	Maggie	Gyllenhaal	F	920	9017	8.10	609451
4	102	902	Miss Giddens	102	Deborah	Kerr	F	902	9002	7.90	20207
5	115	915	Rose DeWitt Bukater	115	Kate	Winslet	F	915	9001	7.70	830095

Scripting kedua:

```
select mc.act_id, mc.mov_id, concat(a.act_fname,' ',a.act_lname) full_name, r.rev_stars
from movie_cast mc
inner join actor a on mc.act_id = a.act_id
inner join rating r on r.mov_id = mc.mov_id
where a.act_gender = 'F'
order by rev_stars desc
limit 1;
```

Answer no.9: **Claire Danes**

	act_id integer	mov_id integer	full_name text	rev_stars numeric
1	112	912	Claire Danes	8.40

10. Find reviewer who never give the low rating (below 8)

```
SELECT reviewer.rev_id, reviewer.rev_name
FROM reviewer
LEFT JOIN rating ON reviewer.rev_id = rating.rev_id
GROUP BY reviewer.rev_id, reviewer.rev_name
HAVING MIN(rating.rev_stars) >= 8 OR MIN(rating.rev_stars) IS NULL;
```

Answer no.10:

	rev_id [PK] integer	rev_name character varying
1	9008	Neal Wruck
2	9017	Hannah Steele
3	9007	Simon Wright
4	9018	Vincent Cadena
5	9019	Brandt Sponseller
6	9011	[null]
7	9005	[null]
8	9016	Scott LeBrun
9	9010	Mike Salvati
10	9003	Flagrant Baronessa
11	9012	Wesley S. Walker
12	9004	Alec Shaw

11. Find the number of director who directed drama movies

```
SELECT COUNT(DISTINCT director.dir_id) AS num_directors
FROM director
JOIN movie_direction ON director.dir_id = movie_direction.dir_id
JOIN movie_genres ON movie_direction.mov_id = movie_genres.mov_id
JOIN genres ON movie_genres.gen_id = genres.gen_id
WHERE genres.gen_title = 'Drama';
```

Answer no.11:

	num_directors bigint
1	1

12. Count the number of male and female actor

```
SELECT act_gender, COUNT(*) AS actor_count
FROM actor
```

GROUP BY act_gender;

Answer no 12:

	act_gender character varying 🔒	actor_count bigint 🔒
1	M	17
2	F	7