

Buat DB

```
postgres=# Create Database movie;
```

Masuk database movie

```
postgres=# \c movie
```

You are now connected to database "movie" as user "postgres".

Create Table

```
movie=# create table actor (  
movie(# act_id int primary key,  
movie(# act_fname varchar,  
movie(# act_lname varchar,  
movie(# act_gender varchar  
movie(# );  
CREATE TABLE
```

Melihat tabel

```
movie=# \d
```

```
                List of relations  
Schema |          Name          | Type  | Owner  
-----+-----+-----+-----  
public | actor                  | table | postgres  
public | director               | table | postgres  
public | genres                 | table | postgres  
public | movie                  | table | postgres  
public | movie_cast             | table | postgres  
public | movie_direction        | table | postgres  
public | movie_genres           | table | postgres  
public | rating                 | table | postgres  
public | reviewer               | table | postgres  
(9 rows)
```

Insert Tabel

```
movie=# INSERT INTO actor (act_id,act_fname,act_lname,act_gender) VALUES  
movie=# ('101','James','Stewart','M'),  
movie=# ('102','Deborah','Kerr','F'),  
movie=# ('103','Peter','OToole','M'),  
movie=# ('104','Robert','De Niro','M'),  
movie=# ('105','F. Murray','Abraham','M'),  
movie=# ('106','Harrison','Ford','M'),  
movie=# ('107','Nicole','Kidman','F'),  
movie=# ('108','Stephen','Baldwin','M'),  
movie=# ('109','Jack','Nicholson','M'),  
movie=# ('110','Mark','Wahlberg','M'),  
movie=# ('111','Woody','Allen','M'),  
movie=# ('112','Claire','Danes','F'),  
movie=# ('113','Tim','Robbins','M'),  
movie=# ('114','Kevin','Spacey','M'),  
movie=# ('115','Kate','Winslet','F'),  
movie=# ('116','Robin','Williams','M'),  
movie=# ('117','Jon','Voight','M'),  
movie=# ('118','Ewan','McGregor','M'),  
movie=# ('119','Christian','Bale','M'),  
movie=# ('120','Maggie','Gyllenhaal','F'),
```

```

movie=# ('121','Dev','Patel','M'),
movie=# ('122','Sigourney','Weaver','F'),
movie=# ('123','David','Aston','M'),
movie=# ('124','Ali','Astin','F');
INSERT 0 24

```

Basic SQL Command

```

movie=# Select * From actor;
  act_id | act_fname | act_lname | act_gender
-----+-----+-----+-----
    101 | James    | Stewart   | M
    102 | Deborah  | Kerr      | F
    103 | Peter    | OToole    | M
    104 | Robert   | De Niro   | M
    105 | F. Murray | Abraham   | M
    106 | Harrison | Ford      | M
    107 | Nicole   | Kidman    | F
    108 | Stephen  | Baldwin   | M
    109 | Jack     | Nicholson | M
    110 | Mark     | Wahlberg  | M
    111 | Woody    | Allen     | M
    112 | Claire   | Danes     | F
    113 | Tim      | Robbins    | M
    114 | Kevin    | Spacey    | M
    115 | Kate     | Winslet   | F
    116 | Robin    | Williams  | M
    117 | Jon      | Voight    | M
    118 | Ewan     | McGregor  | M
    119 | Christian | Bale      | M
    120 | Maggie   | Gyllenhaal | F
    121 | Dev      | Patel     | M
    122 | Sigourney | Weaver    | F
    123 | David    | Aston     | M
    124 | Ali      | Astin     | F
(24 rows)

```

Melihat banyaknya film berdasarkan bahasa

```

movie=# select mov_lang, count(mov_id) from movie group by mov_lang;
 mov_lang | count
-----+-----
 English  |    25
 Japanese |     3
(2 rows)

```

Pemakaian statemen kondisi

Memberikan lavel pada kondisi film berdasarkan rating

```

movie=# select mov_id, rev_stars,
movie=#         case
movie=#           when rev_stars between 0 and 5 then 'film jelek'
movie=#           when rev_stars between 5 and 7 then 'film lumayan'
movie=#           when rev_stars between 7 and 10 then 'film bagus'
movie=#           else 'belum ada rating'

```

```

movie=#      end as status_rating
movie=# from rating;
  mov_id | rev_stars | status_rating
-----+-----+-----
    901 |      8.40 | film bagus
    902 |      7.90 | film bagus
    903 |      8.30 | film bagus
    906 |      8.20 | film bagus
    924 |      7.30 | film bagus
    908 |      8.60 | film bagus
    909 |           | belum ada rating
    910 |      3.00 | film jelek
    911 |      8.10 | film bagus
    912 |      8.40 | film bagus
    914 |      7.00 | film lumayan
    915 |      7.70 | film bagus
    916 |      4.00 | film jelek
    925 |      7.70 | film bagus
    918 |           | belum ada rating
    920 |      8.10 | film bagus
    921 |      8.00 | film bagus
    922 |      8.40 | film bagus
    923 |      6.70 | film lumayan
(19 rows)

```

Latihan

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

```

movie=# select m.mov_id, m.mov_title, mc.role
movie=# from movie m
movie=# inner join movie_cast mc on m.mov_id = mc.mov_id
movie=# where mc.role = 'Alice Harford';

```

```

  mov_id | mov_title | role
-----+-----+-----
    907 | Eyes Wide Shut | Alice Harford
(1 row)

```

2. Find each genre of each movies

```

movie=# select m.mov_id, m.mov_title, mgenres.gent
movie=# from movie m
movie=# left join (select mg.mov_id as movid, g.gen_title as gent from
movie_genres mg, genres g where mg.gen_id=g.gen_id) mgenres on m.mov_id =
mgenres.movid;

```

```

  mov_id | mov_title | gent
-----+-----+-----
    922 | Aliens | Action
    917 | Deliverance | Adventure
    903 | Lawrence of Arabia | Adventure
    912 | Princess Mononoke | Animation
    911 | Annie Hall | Comedy
    908 | The Usual Suspects | Crime
    913 | The Shawshank Redemption | Crime
    926 | Seven Samurai | Drama
    928 | Back to the Future | Drama
    918 | Trainspotting | Drama

```

921		Slumdog Millionaire		Drama
902		The Innocents		Horror
923		Beyond the Sea		Music
907		Eyes Wide Shut		Mystery
927		Spirited Away		Mystery
901		Vertigo		Mystery
914		American Beauty		Romance
906		Blade Runner		Thriller
904		The Deer Hunter		War
910		Boogie Nights		
919		The Prestige		
915		Titanic		
909		Chinatown		
905		Amadeus		
924		Avatar		
920		Donnie Darko		
916		Good Will Hunting		
925		Braveheart		

(28 rows)

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

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

```

movie=# select count(mov_id) total, mov_year
movie-#       from movie
movie-#       group by mov_year
movie-#       order by total desc
movie-#       limit 1;
  total | mov_year
-----+-----
      4 |    1997
(1 row)

```

5. Find actor that has played as Sean Maguire

```

movie=# select m.mov_title, concat(a.act_fname, ' ',a.act_lname)
actor_name, c.role
movie-# from movie m join movie_cast c on m.mov_id = c.mov_id
movie-#       join actor a on a.act_id = c.act_id
movie-# where c.role='Sean Maguire';

```

mov_title	actor_name	role
Good Will Hunting	Robin Williams	Sean Maguire

(1 row)

6. Find a movie with the lowest rating

```

movie=# select r.rev_stars, m.mov_title
movie-#       from movie m join rating r on m.mov_id = r.mov_id
movie-#       order by r.rev_stars asc
movie-#       limit 1;
  rev_stars | mov_title
-----+-----

```

```

3.00 | Boogie Nights
(1 row)

```

7. Find how many female actor who acted in 21st century
8. Find actor that has played in more than one movie
9. Find female actor whose movies received a highest rating

```

movie=# select a.act_id, concat(a.act_fname, ' ',a.act_lname) actor_name, r.rev_stars
movie-#       from actor a
movie-#       inner join movie_cast mc on a.act_id = mc.act_id
movie-#       inner join rating r on r.mov_id = mc.mov_id
movie-# where a.act_gender = 'F'
movie-# order by r.rev_stars desc
movie-# limit 1;
 act_id | actor_name | rev_stars
-----+-----+-----
    112 | Claire Danes |      8.40
(1 row)

```

10. Find reviewer who never give the low rating (below 8)
11. Find the number of director who directed drama movies
12. Count the number of male and female actor

```

movie=# select act_gender, count(act_gender) from actor group by
act_gender;
 act_gender | count
-----+-----
M           |     17
F           |      7
(2 rows)

```

Atau

```

movie=# select
movie-#       case
movie-#         when act_gender = 'M' then 'Male'
movie-#         when act_gender = 'F' then 'Female'
movie-#         else 'no gender'
movie-#       end as gender_label,
movie-#       count(act_gender)
movie-# from actor
movie-# group by act_gender;
 gender_label | count
-----+-----
Male          |     17
Female        |      7
(2 rows)

```

