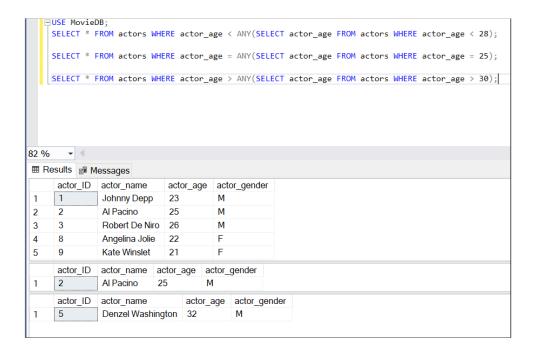
DBMS LAB ASSIGNMENT - 5

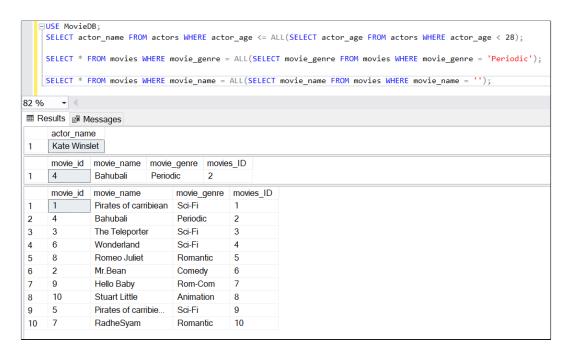
NAME: K.Rehasree ROLL NO.: 19BCS057

Q1) Illustrate logical ANY, ALL and LIKE operator- the queries should be relevant to your respective databases 3 queries for each operator. One query explaining the difference between ANY and ALL.

QUERIES FOR "ANY"



OUERIES FOR "ALL"





QUERIES FOR "LIKE"

```
■USE MovieDB;
     SELECT * FROM movies WHERE movie_id LIKE 4;
     SELECT * FROM actors WHERE actor_name LIKE '%Pitt';
     SELECT actor_age FROM actors WHERE actor_gender LIKE 'M';
82 %
■ Results  Messages
      movie_id
                movie_name
                              movie_genre
                                            movies_ID
      4
                 Bahubali
                              Periodic
 1
                                            2
                actor name
      actor ID
                             actor_age
                                         actor_gender
                 Brad Pitt
      7
                              31
                                         м
 1
      actor_age
 1
      23
 2
      25
 3
      26
       30
 4
 5
       32
      28
 6
 7
      31
```

Q2) One query for each Aggregate function.

The aggregate functions are MIN(), MAX(), COUNT(), AVG(), SUM()

AVG() – return the average of the set

MIN() – returns the minimum value in a set

MAX() – returns the maximum value in set

SUM() - returns the sum of all distinct values of a set

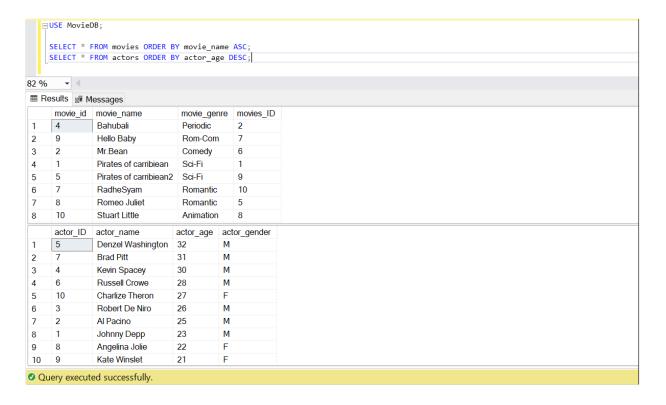
COUNT() – returns the number of items in a set

```
□USE MovieDB;
     SELECT AVG(actor_age) AS average_age FROM actors;
     SELECT MAX(actor_age) AS Max_age FROM actors;
     SELECT MIN(actor_age) AS Min_age FROM actors;
     SELECT COUNT(movie_id) FROM movies WHERE movie_name LIKE '%Little';
     SELECT SUM(actor_age) AS total_age FROM actors;
82 %
■ Results Messages
      average_age
      26
 1
      Max_age
      Min_age
     21
 1
      (No column name)
      total_age
 1
      265

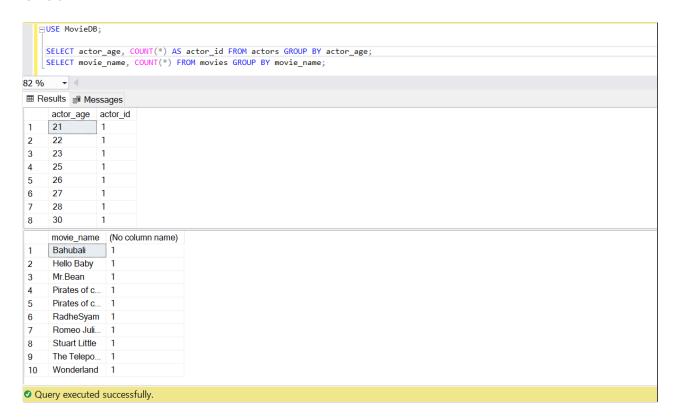
    Query executed successfully.
```

Q3) Illustrate the usage of order by, group by and having clause (2 queries for each case)

ORDER BY



GROUP BY



HAVING CLAUSE





AVG():

```
SELECT AVG(actor_age) FROM actors GROUP BY actor_name HAVING actor_name LIKE '%Pitt';

82 %

Results Messages

(No column name)

1 31
```

COUNT():

MIN():

```
SELECT MIN(actor_age) FROM actors GROUP BY actor_gender HAVING actor_gender = 'F';

82 %

■ Results M Messages

(No column name)

1 21
```

MAX():



```
SELECT MAX(actor_age) FROM actors GROUP BY actor_gender HAVING actor_gender = 'M';

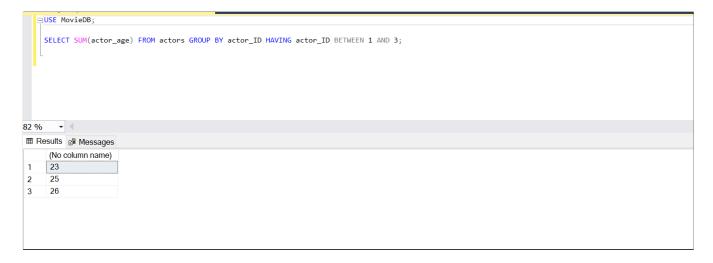
82 %

Results © Messages

(No column name)

1 32
```

SUM():



Q5) Write at least 3 nested queries using order by, group by and having clause.

QUERY:

```
BUSE MovieDB;

BSELECT director_name, COUNT(*) FROM crew

WHERE crew_id = ANY(

SELECT crew_id FROM crew

WHERE movie_id = ANY(

SELECT movie_id FROM movies

WHERE movie_genre = 'Periodic'
)

GROUP BY director_name HAVING director_name LIKE '%'

ORDER BY director_name DESC;

B2 %

Results @N Messages

director_name (No column name)

1 satwik 1
```

Q6) Illustrate the Usage of Except, Exists, Not Exists, Union, Intersection

EXCEPT():



```
BUSE MovieDB;

SELECT director_name | FROM crew |
| EXCEPT |
| SELECT movie_name FROM movies;

| Messages |
| director_name |
| alex |
| 2 baba |
| 3 bharadwaj |
| 4 bhaskar |
| 5 Dacia |
| 6 goutam |
| 7 prabhas |
| 8 rao |
| 9 sabwik |
| 10 veera |
```

EXISTS():

NOT EXISTS():

```
SELECT * FROM crew
WHERE NOT EXISTS
(SELECT movie_id FROM movies);

82 % 

Results Messages

crew_id movie_id director_name musicdirector_name
```

UNION():



```
B2 %

B82 %

Bestlet movie id FROM movies;

B82 %

B82 %

B82 %

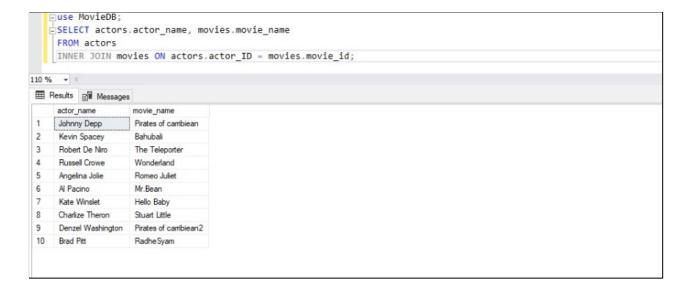
B83 3 3 4 4 4 4 4 5 5 5 6 6 6 7 7 7 8 8 8 9 9 10 10 10
```

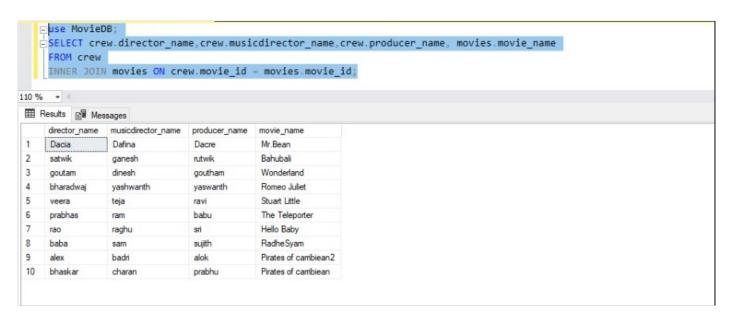
INTERSECT():

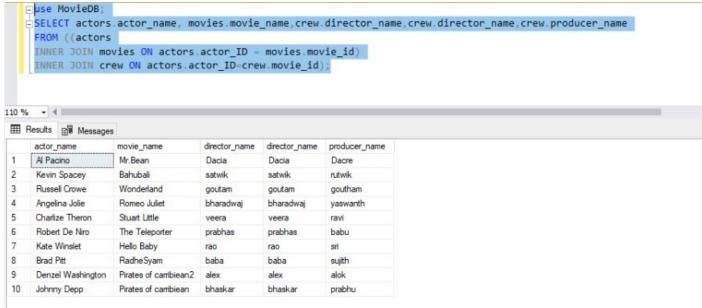


Q7) INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN- 3 queries for each instance

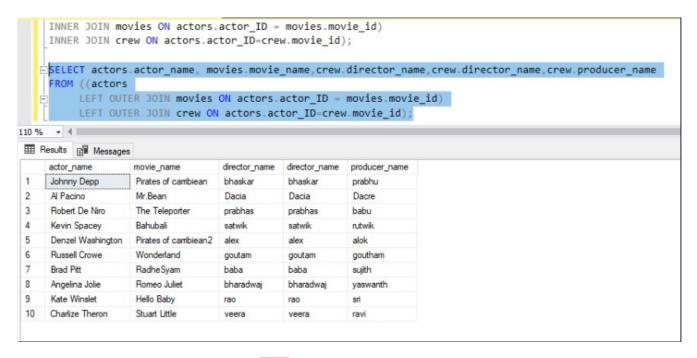
INNER JOIN







LEFT OUTER JOIN



```
INNER JOIN movies ON actors.actor ID = movies.movie id)
     INNER JOIN crew ON actors.actor ID=crew.movie id);
   SELECT actors.actor_name,crew.director_name
     FROM actors
          LEFT OUTER JOIN crew ON actors.actor_ID=crew.movie_id;
110 % - 4
Results Messages
     actor_name
                      director_name
    Johnny Depp
                      bhaskar
2
     Al Pacino
                      Dacia
3
     Robert De Niro
                      prabhas
 4
     Kevin Spacey
                      satwik
 5
     Denzel Washington alex
 6
     Russell Crowe
                      goutam
 7
     Brad Pitt
                      baba
 8
     Angelina Jolie
                     bharadwai
 9
     Kate Winslet
    Charlize Theron
                      veera
```

RIGHT OUTER JOIN

```
INNER JOIN movies ON actors.actor_ID = movies.movie_id)
     INNER JOIN crew ON actors.actor_ID=crew.movie_id);
     FROM actors
       RIGHT OUTER JOIN movies ON actors.actor_ID = movies.movie_id;
110 % + 4
Results Messages
     actor_ID actor_name
                             actor_age actor_gender movie_id movie_name
                                                                          movie genre movies ID
            Johnny Depp
                                                         Pirates of carribiean
             Kevin Spacey
                                                                          Periodic
                                                                          Sci-Fi
                                      M
                                                         The Teleporter
3
     3
             Robert De Niro
                             26
                                                 3
                                                                                    3
                                                    Wonderland
4
     6
             Russell Crowe
                             28
                                      M
                                                 6
                                                                          Sci-Fi
                                                                                    4
                         22
                                                    Romeo Juliet
             Angelina Jolie
                                                                          Romantic
     8
                                                      Mr.Bean
                                      M
6
     2
             Al Pacino
                            25
                                                 2
                                                                          Comedy
                                                                                     6
                                                     Hello Baby
     9
             Kate Winslet
                             21
                                      F
                                                 9
                                                                          Rom-Com
             Charlize Theron
                             27
                                                                          Animation
8
     10
                                                 10
                                                         Stuart Little
                                                                                    8
     5
             Denzel Washington 32
                                                 5
                                                        Pirates of carribiean2 Sci-Fi
                                                                                    9
 10
                                                         RadheSyam
                                                                         Romantic
```

