

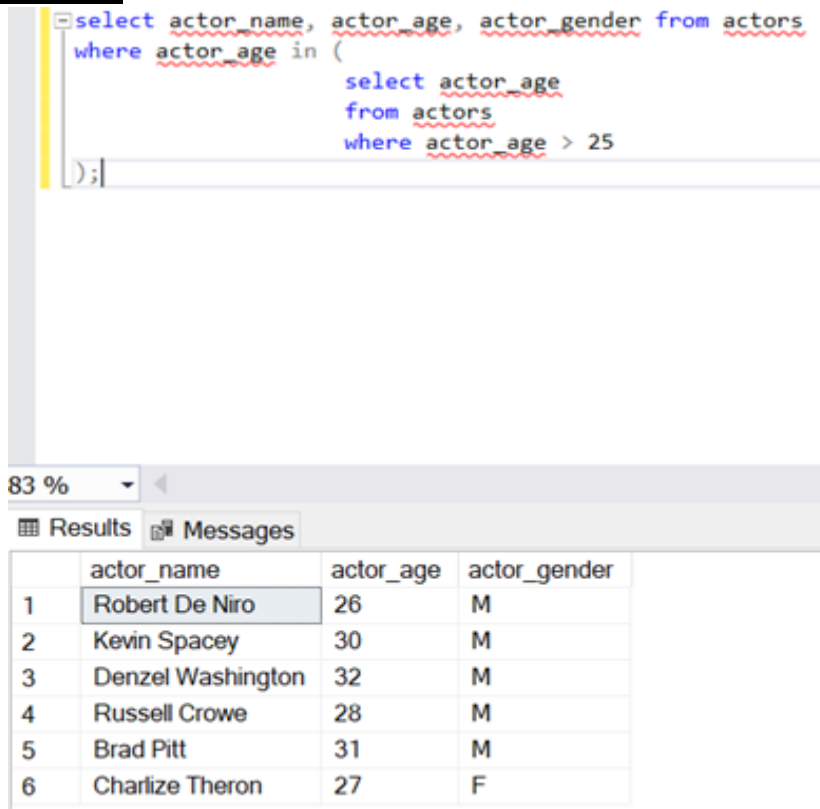
# DBMS LAB ASSIGNMENT-4

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**1. Write 5 Nested Queries for your respective database- the queries should not be very similar like just changing the where clause or just building all the queries on only one or two tables etc. The queries should make sense, it should cover most part of your database tables.**

## Query .1:



The screenshot shows a database query editor with a nested query. The query is: `select actor_name, actor_age, actor_gender from actors where actor_age in (select actor_age from actors where actor_age > 25);` Below the query editor, there is a zoom level of 83% and two tabs: 'Results' and 'Messages'. The 'Results' tab is active, displaying a table with 6 rows and 4 columns: actor\_name, actor\_age, and actor\_gender. The data is as follows:

	actor_name	actor_age	actor_gender
1	Robert De Niro	26	M
2	Kevin Spacey	30	M
3	Denzel Washington	32	M
4	Russell Crowe	28	M
5	Brad Pitt	31	M
6	Charlize Theron	27	F

## Query .2:

```

select actor_name, actor_age, actor_gender from actors
where actor_age in (
    select actor_age
    from actors
    where actor_age > 25
);

select movie_name from movies
where movie_genre in (
    select movie_genre
    from movies
    where movie_genre = 'Sci-Fi'
);

```

83 %

Results		Messages	
1	Robert De Niro	20	M
2	Kevin Spacey	30	M
3	Denzel Washington	32	M
4	Russell Crowe	28	M
5	Brad Pitt	31	M
6	Charlize Theron	27	F

movie_name	
1	Pirates of caribbean
2	The Teleporter
3	Wonderland
4	Pirates of carrie...

### Query.3:

```

select director_name, producer_name, musicdirector_name from crew
where movie_id in(
    select movie_id
    from movies
    where movie_id =1
);

```

110 %

Results		Messages	
	director_name	producer_name	musicdirector_name
1	bhaskar	prabhu	charan

### Query .4:

```

select director_name, producer_name, musicdirector_name from crew
where movie_id in(
    select movie_id
    from movies
    where movie_id =6
);

```

110 %

Results		Messages	
	director_name	producer_name	musicdirector_name
1	goutam	goutham	dinesh

### Query .5:

```
select director_name,producer_name,musicdirector_name from crew
where movie_id in(
    select movie_id
    from movies
    where movie_id <6
);
select director_name from crew
where movie_id in (
    select movie_id
    from movies
    where movie_id = 9
);
```

110 %

Results Messages

	director_name
1	rao

2. Illustrate how we can use Concat and As operators in SQL (minimum 3 queries)

### Query .1:

```
use movieDB;

select concat(movie_name, ',', movie_genre) as Movie
from movies;
```

100 %

Results Messages

	Movie
1	Pirates of caribbean,Sci-Fi
2	Bahubali,Periodic
3	The Teleporter,Sci-Fi
4	Wonderland,Sci-Fi
5	Romeo Juliet,Romantic
6	Mr.Bean,Comedy
7	Hello Baby,Rom-Com
8	Stuart Little,Animation
9	Pirates of caribbean2,Sci-Fi
10	RadheSyam,Romantic

### Query .2:

```

use movieDB;

select concat(director_name, ',', producer_name, ',', musicdirector_name) as Crew
from crew
where crew_id=2 or crew_id = 5;

```

100 %

Results Messages

	Crew
1	satevik.rutwik.ganesh
2	veera.ravi.teja

### Query .3:

```

use movieDB;

select concat(actor_name, ' ', actor_age) as Actor_Details
from actors;

```

100 %

Results Messages

	Actor_Details
1	Johnny Depp 23
2	Al Pacino 25
3	Robert De Niro 26
4	Kevin Spacey 30
5	Denzel Washington 32
6	Russell Crowe 28
7	Brad Pitt 31
8	Angelina Jolie 22
9	Kate Winslet 21
10	Charlize Theron 27

### **3. Illustrate all the Comparison operator (2 queries for each )**

#### Query .1. For =

```

select * from actors
where actor_age = 26;

```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	3	Robert De Niro	26	M

## Qurey .2 :For =

```
--use MovieDB
--select * from actors
where actor_gender = 'F';
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	8	Angelina Jolie	22	F
2	9	Kate Winslet	21	F
3	10	Charlize Theron	27	F

## Query-1 for >

```
--use MovieDB
--select * from actors
where actor_age > 30;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	5	Denzel Washington	32	M
2	7	Brad Pitt	31	M

## Query-2 for >

```
--select * from actors
--where actor_age > 25;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	3	Robert De Niro	26	M
2	4	Kevin Spacey	30	M
3	5	Denzel Washington	32	M
4	6	Russell Crowe	28	M
5	7	Brad Pitt	31	M
6	10	Charlize Theron	27	F

### Query-1 for <

```
--select * from actors
--where actor_age < 31;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	1	Johnny Depp	23	M
2	2	Al Pacino	25	M
3	3	Robert De Niro	26	M
4	4	Kevin Spacey	30	M
5	6	Russell Crowe	28	M
6	8	Angelina Jolie	22	F
7	9	Kate Winslet	21	F
8	10	Charlize Theron	27	F

### Query-2 for <

```
select * from actors  
where actor_age < 25;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	1	Johnny Depp	23	M
2	8	Angelina Jolie	22	F
3	9	Kate Winslet	21	F

### Query-1 for >=

```
select * from actors  
where actor_age >= 25;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	2	Al Pacino	25	M
2	3	Robert De Niro	26	M
3	4	Kevin Spacey	30	M
4	5	Denzel Washington	32	M
5	6	Russell Crowe	28	M
6	7	Brad Pitt	31	M
7	10	Charlize Theron	27	F

### Query-2 for >=

```
=select * from actors
where actor_age >= 30;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	4	Kevin Spacey	30	M
2	5	Denzel Washington	32	M
3	7	Brad Pitt	31	M

### Query-1 for <=

```
=select * from actors
where actor_age <= 25;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	1	Johnny Depp	23	M
2	2	Al Pacino	25	M
3	8	Angelina Jolie	22	F
4	9	Kate Winslet	21	F



## Query-2 for <=

```
=select * from actors  
where actor_age <= 30;
```

83 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	1	Johnny Depp	23	M
2	2	Al Pacino	25	M
3	3	Robert De Niro	26	M
4	4	Kevin Spacey	30	M
5	6	Russell Crowe	28	M
6	8	Angelina Jolie	22	F
7	9	Kate Winslet	21	F
8	10	Charlize Theron	27	F

## Query-1 for <>

```
=use movieDB;
```

```
=select * from actors  
where actor_gender <> 'M';
```

100 %

Results Messages

	actor_ID	actor_name	actor_age	actor_gender
1	8	Angelina Jolie	22	F
2	9	Kate Winslet	21	F
3	10	Charlize Theron	27	F

## Query-2 for <>

```
use movieDB;

select * from movies
where movie_genre <> 'Sci-Fi';
```

100 %

Results Messages

	movie_id	movie_name	movie_genre	movies_ID
1	4	Bahubali	Periodic	2
2	8	Romeo Juliet	Romantic	5
3	2	Mr.Bean	Comedy	6
4	9	Hello Baby	Rom-Com	7
5	10	Stuart Little	Animation	8
6	7	RadheSyam	Romantic	10

**4. Illustrate Logical operators except ANY, ALL and Like (2 queries for each operator)**

## Query-1 for AND

```
select actor_name, actor_age, actor_gender from actors
where actor_age >= 25 and actor_gender = 'M'
```

10 %

	actor_name	actor_age	actor_gender
1	Al Pacino	25	M
2	Robert De Niro	26	M
3	Kevin Spacey	30	M
4	Denzel Washington	32	M
5	Russell Crowe	28	M
6	Brad Pitt	31	M

## Query-2 for AND

```
select movie_id, movie_name, movie_genre from movies
where movie_id = 1 and movie_genre = 'Sci-Fi'
```

110 %

	movie_id	movie_name	movie_genre
1	1	Pirates of cambian	Sci-Fi

## Query-1 for OR

```
select actor_name, actor_age, actor_gender from actors
where actor_age >= 25 or actor_gender = 'M'
```

110 %

	actor_name	actor_age	actor_gender
1	Johnny Depp	23	M
2	Al Pacino	25	M
3	Robert De Niro	26	M
4	Kevin Spacey	30	M
5	Denzel Washington	32	M
6	Russell Crowe	28	M
7	Brad Pitt	31	M
8	Charlize Theron	27	F

## Query-2 for OR

```
select actor_name, actor_age, actor_gender from actors
where actor_age >= 24 or actor_gender = 'F'
```

110 %

	actor_name	actor_age	actor_gender
1	Al Pacino	25	M
2	Robert De Niro	26	M
3	Kevin Spacey	30	M
4	Denzel Washington	32	M
5	Russell Crowe	28	M
6	Brad Pitt	31	M
7	Angelina Jolie	22	F
8	Kate Winslet	21	F
9	Charlize Theron	27	F

## Query-1 for NOT

```
select actor_name, actor_age, actor_gender from actors
where not actor_gender = 'M'
```

110 %

	actor_name	actor_age	actor_gender
1	Angelina Jolie	22	F
2	Kate Winslet	21	F
3	Charlize Theron	27	F

## Query-2 for NOT

```
select actor_name, actor_age, actor_gender from actors
where not actor_gender = 'F'
```

110 %

	actor_name	actor_age	actor_gender
1	Johnny Depp	23	M
2	Al Pacino	25	M
3	Robert De Niro	26	M
4	Kevin Spacey	30	M
5	Denzel Washington	32	M
6	Russell Crowe	28	M
7	Brad Pitt	31	M

## Query-1 for IN

```
select actor_name, actor_age, actor_gender from actors  
where actor_age in (31);
```

0 %

Results Messages

	actor_name	actor_age	actor_gender
1	Brad Pitt	31	M

## Query-2 for IN

```
select actor_name, actor_age, actor_gender from actors  
where actor_age in (22);
```

0 %

Results Messages

	actor_name	actor_age	actor_gender
1	Angelina Jolie	22	F

## Query-1 for BETWEEN

```
select actor_name, actor_age, actor_gender from actors  
where actor_age between 25 and 31;
```

.10 %

Results Messages

	actor_name	actor_age	actor_gender
1	Al Pacino	25	M
2	Robert De Niro	26	M
3	Kevin Spacey	30	M
4	Russell Crowe	28	M
5	Brad Pitt	31	M
6	Charlize Theron	27	F

## Query-2 for BETWEEN

```
=select actor_name, actor_age, actor_gender from actors  
where actor_age between 27 and 31;
```

110 %

Results Messages

	actor_name	actor_age	actor_gender
1	Kevin Spacey	30	M
2	Russell Crowe	28	M
3	Brad Pitt	31	M
4	Charlize Theron	27	F