

# DBMS LAB ASSIGNMENT 4

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CSE

- 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.

```
SQLQuery1.sql - RO...ITH-PC\91790 (64))* ✕
SELECT NAME FROM T6_MOVIES
WHERE ID = (
SELECT ID FROM T6_MOVIES
WHERE ABOUT = 'IDK'
);
```

100 %

Results Messages

	NAME
1	HIJKL

1.

```
SQLQuery1.sql - RO...ITH-PC\91790 (64))* ✕
SELECT NAME FROM T6_MOVIES
WHERE ID = (
SELECT ID FROM T6_MOVIES
WHERE ABOUT = 'XYZZYX'
);
```

100 %

Results Messages

	NAME
1	ABCDEFGG

2.

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```

SELECT ABOUT FROM T6_MOVIES
WHERE ID = (
SELECT ID FROM T6_MOVIES
WHERE NAME = 'ANNABELLE'
);

```

100 %

Results Messages

	ABOUT
1	HORROR

3.

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```

SELECT YEAR FROM T6_MOVIES
WHERE ID = (
SELECT ID FROM T6_MOVIES
WHERE NAME = 'ROBOCOP 2'
);

```

100 %

Results Messages

	YEAR
1	2017

4.

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```

SELECT ID FROM T6_MOVIES
WHERE NAME = (
SELECT NAME FROM T6_MOVIES
WHERE DESCR = 'MOVIE'
);

```

100 %

Results Messages

	ID
1	37

5.

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

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME + ' -->' + STR(YEAR)
FROM T6_MOVIES
```

100 %

Results Messages

	(No column name)
1	IRON MAN--> 2012
2	BATMAN--> 2015
3	INTERSTELLAR--> 2012
4	THE CROODS--> 2020
5	TRANSCENDENCE--> 2014
6	AQUAMAN--> 2020
7	SUPERMAN--> 2016
8	LION KING--> 2020
9	SIDEMEN--> 2020
10	COCO--> 2020
11	ROBOCOP--> 2016

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME + ' --->' + ABOUT
FROM T6_MOVIES
```

100 %

Results Messages

	(No column name)
1	IRON MAN--->ACTION
2	BATMAN--->SCI-FI
3	INTERSTELLAR--->SCI-FI
4	THE CROODS--->ANIMATION
5	TRANSCENDENCE--->SCI FI
6	AQUAMAN--->ACTION
7	SUPERMAN--->ACTION
8	LION KING--->ANIMATION
9	SIDEMEN--->ACTION
10	COCO--->ANIMATION
11	ROBOCOP--->ACTION
12	ROBOCOP 2--->ACTION
13	ROBOCOP 3--->ACTION
14	TENET--->SCI FI
15	ARRIVAL--->SCI FI
16	INCEPTION--->SCI FI
17	EVIL DEAD--->HORROR
18	ANNABELLE--->HORROR
19	IRONMAN--->SCIENCE FICTION

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME + ' ' + ABOUT AS T6_MOVIEDESC  
FROM T6_MOVIES
```

100 %

Results Messages

	T6_MOVIEDESC
1	IRON MAN ACTION
2	BATMAN SCI-FI
3	INTERSTELLAR SCI-FI
4	THE CROODS ANIMATION
5	TRANSCENDENCE SCI FI
6	AQUAMAN ACTION
7	SUPERMAN ACTION
8	LION KING ANIMATION
9	SIDEMEN ACTION
10	COCO ANIMATION
11	ROBOCOP ACTION
12	ROBOCOP 2 ACTION
13	ROBOCOP 3 ACTION
14	TENET SCI FI
15	ARRIVAL SCI FI
16	INCEPTION SCI FI
17	EVIL DEAD HORROR
18	ANNABELLE HORROR
19	IRONMAN ABCDEFG

- Illustrate all the Comparison operator (2 queries for each operator)

**OPERATOR '<'**

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE YEAR < 2012;
```

100 %

Results Messages

	NAME
1	IRONMAN
2	HIJKL

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE YEAR < '2019';
```

100 %

Results Messages

	NAME
1	IRON MAN
2	BATMAN
3	INTERSTELLAR
4	TRANSCENDENCE
5	SUPERMAN
6	ROBOCOP
7	ROBOCOP 2
8	ROBOCOP 3
9	ARRIVAL
10	INCEPTION
11	EVIL DEAD
12	ANNABELLE
13	IRONMAN
14	HIJKL
15	IRON MAN
16	BATMAN
17	INTERSTELLAR
18	TRANSCENDENCE
19	SUPERMAN

OPERATOR '>'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\* ✕

```
SELECT NAME FROM T6_MOVIES  
WHERE YEAR > 2016;
```

100 %

Results Messages

	NAME
1	THE CROODS
2	AQUAMAN
3	LION KING
4	SIDEMEN
5	COCO
6	ROBOCOP 2
7	ROBOCOP 3
8	TENET
9	ANNABELLE
10	ABCDEFG
11	123456
12	65.2
13	THE CROODS
14	AQUAMAN
15	LION KING
16	SIDEMEN

SQLQuery1.sql - RO...ITH-PC\91790 (64))\* ✕

```
SELECT ABOUT FROM T6_MOVIES  
WHERE YEAR > 2016;
```

100 %

Results Messages

	ABOUT
1	ANIMATION
2	ACTION
3	ANIMATION
4	ACTION
5	ANIMATION
6	ACTION
7	ACTION
8	SCI FI
9	HORROR
10	XYZZYX
11	789
12	789
13	ANIMATION
14	ACTION
15	ANIMATION
16	ACTION

**OPERATOR '='**

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE ID = 9;
```

100 %

Results Messages

	NAME
1	LION KING

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT ABOUT FROM T6_MOVIES  
WHERE NAME = 'TRANSCENDENCE';
```

100 %

Results Messages

	ABOUT
1	SCI FI

**OPERATOR '<>'**

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE DESCR <> 'NULL';
```

100 %

Results Messages

	NAME
1	HIJKL

SQLQuery1.sql - RO...ITH-PC\91790 (64))\* ✕

```
SELECT YEAR FROM T6_MOVIES  
WHERE ABOUT <> 'ACTION';
```

100 %

Results Messages

	YEAR
1	2015
2	2012
3	2020
4	2014
5	2020
6	2020
7	2020
8	2014
9	2014
10	2014
11	2018
12	1995
13	2019
14	2019
15	2001
16	2019
17	2015
18	2012
19	2020
20	2014
21	2020

OPERATOR '>='

SQLQuery1.sql - RO...ITH-PC\91790 (64))\* ✕

```
SELECT NAME FROM T6_MOVIES  
WHERE ID >= '20';
```

100 %

Results Messages

	NAME
1	ANNABELLE
2	IRONMAN
3	ABCDEFGF
4	123456
5	HIJKL
6	65.2
7	IRON MAN
8	BATMAN
9	INTERSTELLAR
10	THE CROODS
11	TRANSCENDENCE
12	AQUAMAN
13	SUPERMAN
14	LION KING
15	SIDEMEN



SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE ABOUT >= 'ACTION';
```

100 %

Results Messages

	NAME
1	IRON MAN
2	BATMAN
3	INTERSTELLAR
4	THE CROODS
5	TRANSCENDENCE
6	AQUAMAN
7	SUPERMAN
8	LION KING
9	SIDEMEN
10	COCO
11	ROBOCOP
12	ROBOCOP 2
13	ROBOCOP 3
14	TENET
15	ARRIVAL
16	INCEPTION
17	EVIL DEAD
18	ANNABELLE
19	ABCDEFG
20	HIJKL
21	IRON MAN
22	BATMAN
23	INTERSTELLAR
24	THE CROODS
25	TRANSCENDENCE
26	AQUAMAN
27	SUPERMAN
28	LION KING
29	SIDEMEN

OPERATOR '<='

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE YEAR <= '2016';
```

100 %

Results Messages

	NAME
1	IRON MAN
2	BATMAN
3	INTERSTELLAR
4	TRANSCENDENCE
5	SUPERMAN
6	ROBOCOP
7	ARRIVAL
8	INCEPTION
9	EVIL DEAD
10	IRONMAN
11	HIJKL
12	IRON MAN
13	BATMAN
14	INTERSTELLAR
15	TRANSCENDENCE
16	SUPERMAN

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT ABOUT FROM T6_MOVIES  
WHERE ID <= '15';
```

100 %

Results Messages

	ABOUT
1	ACTION
2	SCI-FI
3	SCI-FI
4	ANIMATION
5	SCI FI
6	ACTION
7	ACTION
8	ANIMATION
9	ACTION
10	ANIMATION
11	ACTION
12	ACTION
13	ACTION

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

OPERATOR 'AND'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE ABOUT = 'ACTION' AND YEAR = 2016
```

100 %

Results Messages

	NAME
1	SUPERMAN
2	ROBOCOP

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT YEAR FROM T6_MOVIES  
WHERE ABOUT = 'ACTION' AND ID <15
```

100 %

Results Messages

	YEAR
1	2012
2	2020
3	2016
4	2020
5	2016
6	2017

### OPERATOR 'OR'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT ID FROM T6_MOVIES  
WHERE ABOUT = 'SCI FI' OR YEAR >2016
```

100 %

Results Messages

	ID
1	5
2	6
3	7
4	9
5	10
6	11
7	14
8	15
9	16
10	17
11	18
12	20
13	24
14	32
15	39
16	1004
17	1005
18	1006
19	1008
20	1009

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE ABOUT = 'SCI FI' OR YEAR >2016
```

100 %

Results Messages

	NAME
1	THE CROODS
2	TRANSCENDENCE
3	AQUAMAN
4	LION KING
5	SIDEMEN
6	COCO
7	ROBOCOP 2
8	ROBOCOP 3
9	TENET
10	ARRIVAL
11	INCEPTION
12	ANNABELLE
13	ABCDEFG
14	123456
15	65.2
16	THE CROODS
17	TRANSCENDENCE
18	AQUAMAN
19	LION KING
20	SIDEMEN

### OPERATOR 'NOT'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE NOT ABOUT = 'HORROR'
```

100 %

Results Messages

	NAME
1	IRON MAN
2	BATMAN
3	INTERSTELLAR
4	THE CROODS
5	TRANSCENDENCE
6	AQUAMAN
7	SUPERMAN
8	LION KING
9	SIDEMEN
10	COCO
11	ROBOCOP
12	ROBOCOP 2
13	ROBOCOP 3
14	TENET
15	ARRIVAL
16	INCEPTION
17	IRONMAN
18	ABCDEFG
19	123456
20	HIJKL
21	65.2

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES
WHERE NOT DESCR = 'NULL'
```

100 %

Results Messages

	NAME
1	HIJKL

#### OPERATOR 'IN'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES
WHERE YEAR IN (2016);
```

100 %

Results Messages

	NAME
1	SUPERMAN
2	ROBOCOP
3	SUPERMAN

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES
WHERE YEAR IN (2012);
```

100 %

Results Messages

	NAME
1	IRON MAN
2	INTERSTELLAR

#### OPERATOR 'BETWEEN'

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT NAME FROM T6_MOVIES  
WHERE YEAR BETWEEN 2016 AND 2020;
```

100 %

Results Messages

	NAME
1	THE CROODS
2	AQUAMAN
3	SUPERMAN
4	LION KING
5	SIDEMEN
6	COCO
7	ROBOCOP
8	ROBOCOP 2
9	ROBOCOP 3
10	TENET
11	ANNABELLE
12	ABCDEFGF
13	123456
14	65.2
15	THE CROODS
16	AQUAMAN
17	SUPERMAN
18	LION KING
19	SIDEMEN

SQLQuery1.sql - RO...ITH-PC\91790 (64))\*

```
SELECT ABOUT FROM T6_MOVIES  
WHERE YEAR BETWEEN 2016 AND 2020;
```

100 %

Results Messages

	ABOUT
1	ANIMATION
2	ACTION
3	ACTION
4	ANIMATION
5	ACTION
6	ANIMATION
7	ACTION
8	ACTION
9	ACTION
10	SCI FI
11	HORROR
12	XYZZYX
13	789
14	789
15	ANIMATION
16	ACTION
17	ACTION
18	ANIMATION
19	ACTION