

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.

SQLQuery2.sql - lo...2GICNP\abhis (77))*

```
Use T8_Hospital_Database
Select Doctor_Name from Doctor where DID IN
(Select DID from FEE where paydate='2013-08-20');
```

100 %

Results Messages

	Doctor_Name
1	Shankar

SQLQuery2.sql - lo...2GICNP\abhis (77))*

```
Use T8_Hospital_Database
Select * from Doctor where DID IN
(Select DID from FEE where paydate='2013-08-20');
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	11	Shankar	Gas	111111121	Tribal	38000

SQLQuery2.sql - lo...2GICNP\abhis (77))*

```
Use T8_Hospital_Database
Select * from Doctor where DID IN
(Select DID from FEE where paydate IN
(Select paydate from FEE where paydate > '2015-01-01'));
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	13	Sweta	Burns	1111111122	Call Center	48000
2	14	Pewds	Amnesia	1111111123	Gamer	98000
3	15	Kevin	Amnosea	1111111124	Chaotic	68000
4	19	Reva	Stress	1111111128	Psychologist	38000

SQLQuery2.sql - lo...2GICNP\abhis (77))*

```
Use T8_Hospital_Database
Select * from Doctor where DID IN
(Select DID from FEE where DID>15 or Current_Case='Bird flu');
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	3	Mehndi	Bird flu	1111111113	Flu Expert	38000
2	4	Bassi	Bird flu	1111111114	Bird Watcher	38000
3	16	Ken		1111111125	Stramer	28000
4	17	Buff		1111111126	Flu Expert	38000
5	18	Kalki		1111111127	Neurologist	38000
6	19	Reva	Stress	1111111128	Psychologist	38000
7	20	Mercedes		1111111129	Enterprenaur	38000

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```

Use T8_Hospital_Database
Select * from FEE where DID IN
(Select DID from Doctor where DID>15 and Salary>30000);

```

100 %

Results Messages

	DID	Current_Case	paydate
1	17		NULL
2	18		NULL
3	19	Stress	2018-05-06
4	20		NULL

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

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```

Use T8_Hospital_Database
SELECT CONCAT('Dr. ',Doctor_Name, ' is performing ',Current_Case)AS display_work FROM Doctor;

```

100 %

Results Messages

	display_work
1	Dr. Abhishek Kumar is performing Covid
2	Dr. Gabru is performing Covid
3	Dr. Mehndi is performing Bird flu
4	Dr. Bassi is performing Bird flu
5	Dr. Brar is performing Fever
6	Dr. Shaan is performing Cold
7	Dr. Dawood is performing
8	Dr. Mahes is performing Stomach Ache
9	Dr. Bhangar is performing
10	Dr. Bhau is performing
11	Dr. Shankar is performing Gas
12	Dr. Lakshman is performing Nuclear Radiation
13	Dr. Sweta is performing Burns
14	Dr. Pewds is performing Amnesia
15	Dr. Kevin is performing Amnosea
16	Dr. Ken is performing
17	Dr. Buff is performing
18	Dr. Kalki is performing
19	Dr. Reva is performing Stress
20	Dr. Mercedes is performing

SQLQuery2.sql - lo...2GICNP\abhis (77))* -p X

Use T8_Hospital_Database

```
SELECT CONCAT('Dr. ',Doctor_Name, ' is earning ',Salary)AS Salinfo FROM Doctor;
```

100 %

Results Messages

	Salinfo
1	Dr. Abhishek Kumar is earning 58000
2	Dr. Gabru is earning 58000
3	Dr. Mehndi is earning 38000
4	Dr. Bassi is earning 38000
5	Dr. Brar is earning 48000
6	Dr. Shaan is earning 48000
7	Dr. Dawood is earning 88000
8	Dr. Mahes is earning 18000
9	Dr. Bhangar is earning 28000
10	Dr. Bhau is earning 28000
11	Dr. Shankar is earning 38000
12	Dr. Lakshman is earning 18000
13	Dr. Sweta is earning 48000
14	Dr. Pewds is earning 98000
15	Dr. Kevin is earning 68000
16	Dr. Ken is earning 28000
17	Dr. Buff is earning 38000
18	Dr. Kalki is earning 38000
19	Dr. Reva is earning 38000
20	Dr. Mercedes is earning 38000

SQLQuery2.sql - lo...2GICNP\abhis (77))* -p X

Use T8_Hospital_Database

```
SELECT CONCAT('Operation conducted under Doctor with ID : ',DID, ' is to be paid by ',paydate)AS Salinfo FROM FEE where paydate IS NOT NULL;
```

100 %

Results Messages

	Salinfo
1	Operation conducted under Doctor with ID : 1 is to be paid by 2005-03-03
2	Operation conducted under Doctor with ID : 2 is to be paid by 2005-11-07
3	Operation conducted under Doctor with ID : 3 is to be paid by 2006-12-15
4	Operation conducted under Doctor with ID : 4 is to be paid by 2008-07-10
5	Operation conducted under Doctor with ID : 5 is to be paid by 2010-02-02
6	Operation conducted under Doctor with ID : 6 is to be paid by 2011-02-04
7	Operation conducted under Doctor with ID : 8 is to be paid by 2012-03-26
8	Operation conducted under Doctor with ID : 11 is to be paid by 2013-08-20
9	Operation conducted under Doctor with ID : 12 is to be paid by 2014-01-06
10	Operation conducted under Doctor with ID : 13 is to be paid by 2015-03-19
11	Operation conducted under Doctor with ID : 14 is to be paid by 2016-05-12
12	Operation conducted under Doctor with ID : 15 is to be paid by 2016-10-22
13	Operation conducted under Doctor with ID : 19 is to be paid by 2018-05-06

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

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from Doctor where DID=15;
Select * from FEE where paydate='2016-10-22';
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	15	Kevin	Amnosea	111111124	Chaotic	68000

	DID	Current_Case	paydate
1	15	Amnosea	2016-10-22

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from Doctor where DID>15;
Select * from FEE where paydate>'2016-10-22';
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	16	Ken		111111125	Stramer	28000
2	17	Buff		111111126	Flu Expert	38000
3	18	Kalki		111111127	Neurologist	38000
4	19	Reva	Stress	111111128	Psychologist	38000
5	20	Mercedes		111111129	Enterprenaur	38000

	DID	Current_Case	paydate
1	19	Stress	2018-05-06

SQLQuery2.sql - Io...2GICNP\abhis (77)* ➤ ✕

Use T8_Hospital_Database

Select * from Doctor where DID>=15;

Select * from FEE where paydate>='2016-10-22';

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	15	Kevin	Amnosea	1111111124	Chaotic	68000
2	16	Ken		1111111125	Stramer	28000
3	17	Buff		1111111126	Flu Expert	38000
4	18	Kalki		1111111127	Neurologist	38000
5	19	Reva	Stress	1111111128	Psychologist	38000
6	20	Mercedes		1111111129	Enterprenaur	38000

	DID	Current_Case	paydate
1	15	Amnosea	2016-10-22
2	19	Stress	2018-05-06

SQLQuery2.sql - Io...2GICNP\abhis (77)* ➤ ✕

Use T8_Hospital_Database

Select * from Doctor where DID<5;

Select * from FEE where paydate<'2013-08-20';

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	2	Gabru	Covid	1111111112	Flu Expert	58000
3	3	Mehndi	Bird flu	1111111113	Flu Expert	38000
4	4	Bassi	Bird flu	1111111114	Bird Watcher	38000

	DID	Current_Case	paydate
1	1	Covid	2005-03-03
2	2	Covid	2005-11-07
3	3	Bird flu	2006-12-15
4	4	Bird flu	2008-07-10
5	5	Fever	2010-02-02
6	6	Cold	2011-02-04
7	8	Stomach Ache	2012-03-26

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

Use T8_Hospital_Database

```
Select * from Doctor where DID<=5;
```

```
Select * from FEE where paydate<='2013-08-20';
```

100 %

Results

Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	2	Gabru	Covid	1111111112	Flu Expert	58000
3	3	Mehndi	Bird flu	1111111113	Flu Expert	38000
4	4	Bassi	Bird flu	1111111114	Bird Watcher	38000
5	5	Brar	Fever	1111111115	Cook	48000

	DID	Current_Case	paydate
1	1	Covid	2005-03-03
2	2	Covid	2005-11-07
3	3	Bird flu	2006-12-15
4	4	Bird flu	2008-07-10
5	5	Fever	2010-02-02
6	6	Cold	2011-02-04
7	8	Stomach Ache	2012-03-26
8	11	Gas	2013-08-20

SQLQuery2.sql - Io...2GICNP\abhis (77))* ✕

Use T8_Hospital_Database

Select * from Doctor where DID<>5;

Select * from FEE where paydate<>'2013-08-20';

100 %

Results

Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	2	Gabru	Covid	111111112	Flu Expert	58000
3	3	Mehndi	Bird flu	111111113	Flu Expert	38000
4	4	Bassi	Bird flu	111111114	Bird Watcher	38000
5	6	Shaan	Cold	111111116	Singer	48000
6	7	Dawood		111111117	Drug Lord	88000
7	8	Mahes	Stomach Ache	111111118	Flu Expert	18000
8	9	Bhangar		111111119	Hacker	28000
9	10	Bhau		111111120	Brother	28000
10	11	Shankar	Gas	111111121	Tribal	38000
11	12	Lakshman	Nuclear Radiation	111111130	Medical	18000
12	13	Sweta	Burns	111111122	Call Center	48000
13	14	Pewds	Amnesia	111111123	Gamer	98000
14	15	Kevin	Amnosea	111111124	Chaotic	68000
15	16	Ken		111111125	Stramer	28000
16	17	Buff		111111126	Flu Expert	38000
17	18	Kalki		111111127	Neurologist	38000
18	19	Reva	Stress	111111128	Psychologist	38000
19	20	Mercedes		111111129	Enterprenaur	38000

	DID	Current_Case	paydate
1	1	Covid	2005-03-03
2	2	Covid	2005-11-07
3	3	Bird flu	2006-12-15
4	4	Bird flu	2008-07-10
5	5	Fever	2010-02-02
6	6	Cold	2011-02-04
7	8	Stomach Ache	2012-03-26
8	12	Nuclear Radiation	2014-01-06
9	13	Burns	2015-03-19
10	14	Amnesia	2016-05-12
11	15	Amnosea	2016-10-22
12	19	Stress	2018-05-06

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

OR Operator

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from Doctor where DID IN
(Select DID from FEE where DID>15 or Current_Case='Bird flu');
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	3	Mehndi	Bird flu	1111111113	Flu Expert	38000
2	4	Bassi	Bird flu	1111111114	Bird Watcher	38000
3	16	Ken		1111111125	Stramer	28000
4	17	Buff		1111111126	Flu Expert	38000
5	18	Kalki		1111111127	Neurologist	38000
6	19	Reva	Stress	1111111128	Psychologist	38000
7	20	Mercedes		1111111129	Enterprenaur	38000

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from FEE where DID>15 or Current_Case='Bird flu';
```

100 %

Results Messages

	DID	Current_Case	paydate
1	3	Bird flu	2006-12-15
2	4	Bird flu	2008-07-10
3	16		NULL
4	17		NULL
5	18		NULL
6	19	Stress	2018-05-06
7	20		NULL

AND Operator

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from FEE where DID IN
(Select DID from Doctor where DID>15 and Salary>30000);
```

100 %

Results Messages

	DID	Current_Case	paydate
1	17		NULL
2	18		NULL
3	19	Stress	2018-05-06
4	20		NULL

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from FEE where DID<15 and paydate<='2016-10-22';
```

100 %

Results Messages

	DID	Current_Case	paydate
1	1	Covid	2005-03-03
2	2	Covid	2005-11-07
3	3	Bird flu	2006-12-15
4	4	Bird flu	2008-07-10
5	5	Fever	2010-02-02
6	6	Cold	2011-02-04
7	8	Stomach Ache	2012-03-26
8	11	Gas	2013-08-20
9	12	Nuclear Radiation	2014-01-06
10	13	Burns	2015-03-19
11	14	Amnesia	2016-05-12

IN Operator

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select * from FEE where DID IN
(Select DID from Doctor where DID>15 and Salary>30000);
```

100 %

Results Messages

	DID	Current_Case	paydate
1	17		NULL
2	18		NULL
3	19	Stress	2018-05-06
4	20		NULL

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select Doctor_Name from Doctor where DID IN (Select DID from FEE where DID>15);
```

100 %

Results Messages

	Doctor_Name
1	Ken
2	Buff
3	Kalki
4	Reva
5	Mercedes

BETWEEN Operator

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select Doctor_Name from Doctor where DID BETWEEN 1 AND 5
```

100 %

Results Messages

	Doctor_Name
1	Abhishek Kumar
2	Gabru
3	Mehndi
4	Bassi
5	Brar

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
Select Doctor_Name from Doctor where Salary BETWEEN 30000 AND 60000;
```

100 %

Results Messages

	Doctor_Name
1	Abhishek Kumar
2	Gabru
3	Mehndi
4	Bassi
5	Brar
6	Shaan
7	Shankar
8	Sweta
9	Buff
10	Kalki
11	Reva
12	Mercedes

SOME Operator

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
SELECT * FROM Doctor where Salary > SOME(SELECT Salary FROM Doctor where Current_Case='Bird Flu');
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	2	Gabru	Covid	1111111112	Flu Expert	58000
3	5	Brar	Fever	1111111115	Cook	48000
4	6	Shaan	Cold	1111111116	Singer	48000
5	7	Dawood		1111111117	Drug Lord	88000
6	13	Sweta	Burns	1111111122	Call Center	48000
7	14	Pewds	Amnesia	1111111123	Gamer	98000
8	15	Kevin	Amnesia	1111111124	Chaotic	68000

SQLQuery2.sql - lo...2GICNP\abhis (77))* ✕

```
Use T8_Hospital_Database
SELECT DOCTOR_Name FROM Doctor where DID =
SOME(SELECT DID FROM FEE where Qualification='Flu Expert');
```

100 %

Results Messages

	DID	Doctor_Name	Current_Case	DPhone_Number	Qualification	Salary
1	1	Abhishek Kumar	Covid	123456789	Flu Expert	58000
2	2	Gabru	Covid	1111111112	Flu Expert	58000
3	5	Brar	Fever	1111111115	Cook	48000
4	6	Shaan	Cold	1111111116	Singer	48000
5	7	Dawood		1111111117	Drug Lord	88000
6	13	Sweta	Burns	1111111122	Call Center	48000
7	14	Pewds	Amnesia	1111111123	Gamer	98000
8	15	Kevin	Amnesia	1111111124	Chaotic	68000