

Assignment 1 and 2

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Code:

Lab.1 20BCE2897

```
1 CREATE DATABASE OffDB;
2 use OffDB;
# creating a table
3 create table employee
4 (ID int primary key,
5 name varchar(150) not null,
6 age int,
7 department varchar(100) null,
8 address varchar(100) null,
9 salary int null.);
10 show tables;
11 describe employee;
12 insert into employee
13 values (1, 'Prabhat', 25, 'Sales', 'Delhi', 25000);
14 insert into employee
15 values (2, 'Rimpa', 27, 'Manufacturing', 'Mumbai', 20000);
16 insert into employee
17 values (3, 'Sakal', 31, 'Manufacturing', 'Kolkata', 30000);
18 insert into employee
19 values (4, 'Sagar', 29, 'Finance', 'Noida', 34000);
20 insert into employee
21 values (5, 'Naino', 30, 'Finance', 'Kerala', 28000);
22 insert into employee
23 values (6, 'Rahul', 28, 'Finance', 'Chennai', 27000);
24
25 Select * from employee;
```

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inserting a new tuple (Q.2)

```
insert into employee  
values (7, 'Raklim', 25, 'Design', 'Noida', 31000);
```

details of an employee where age is <=30 and residing in mumbai (Q.3)

```
Select * from employee where age is <=30 and address = 'Mumbai';
```

employee with minimum salary (Q.5)

```
Select name, salary from employee where salary = (select min(salary)  
from employee);
```

total number of employee in each department (Q.6)

```
Select COUNT(ID), department  
FROM employee  
GROUP BY department;
```

decreasing order of salary (Q.8)

```
Select * from employee order by salary desc;
```

number of employee more than 2 in department (Q.9)

```
Select COUNT(ID), department  
FROM employee  
GROUP BY department  
HAVING COUNT(ID) > 2;
```

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Q4

```
Select name, age  
FROM employee  
where age between 24 and 28;
```

```
Select name, age  
FROM employee  
where age in (25, 27);
```

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Average salary (Q.10)

SELECT AVG(salary) FROM employee;

Updating the age. (Q.7)

UPDATE employee

SET age = 32

WHERE address = 'Kerala';

SELECT age, address

FROM employee

WHERE address = 'Kerala' ;

Ques:1

```
1 CREATE DATABASE OffDB;
2 use OffDB;
3 create table employee
4 (ID int primary key,
5 name varchar(150) null ,age int,department varchar(100) null,
6 address varchar(150) null,
7 salary int null );
8 show tables;
9 describe employee;
10 insert into employee
11 values(1,'Prabhat',25,'Sales','Delhi',25000);
12 insert into employee
13 values(2,'Rimpa',27,'Manufacturing','Mumbai',20000);
14 insert into employee
15 values(3,'Saikat',31,'Manufacturing','Kolkota',30000);
16 insert into employee
17 values(4,'Sagar',29,'Finance','Noida',34000);
18 insert into employee
19 values(5,'Naina',30,'Finance','Kerela',29000);
20 insert into employee
21 values(6,'Rahul',28,'Finance','Chennai',27000);
22 select * from employee;
```

ID	NAME	AGE	DEPARTMENT	ADDRESS	SALARY
1	Prabhat	25	Sales	Delhi	25000
2	Rimpa	27	Manufacturing	Mumbai	20000
3	Saikat	31	Manufacturing	Kolkota	30000
4	Sagar	29	Finance	Noida	34000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000

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Ques2:

```
26 •   select * from employee;
27      #inserting a new tuple
28 •   insert into employee
29      values(7,'Raktim',25,'Design','Noida',31000);
30
```

Result Grid		Filter Rows:		Search	Edit:	Export/Import:
ID	name	age	department	address	salary	
1	Prabhat	25	Sales	Delhi	25000	
2	Rimpa	27	Manufacturing	Mumbai	20000	
3	Saikat	31	Manufacturing	Kolkota	30000	
4	Sagar	29	Finance	Noida	34000	
5	Naina	30	Finance	Kerela	29000	
6	Rahul	28	Finance	Chennai	27000	
7	Raktim	25	Design	Noida	31000	
	HULL	HULL	HULL	HULL	HULL	HULL

Ques 3:

```
31
32      #details of students from Mumbai age<=30
33 •  select * from employee where age<=30 and address='Mumbai';
34
35
```

100% 59:33

Result Grid Filter Rows: Search Edit: Export/Import:

ID	name	age	department	address	salary
2	Rimpa	27	Manufacturing	Mumbai	20000
	HULL	HULL	HULL	HULL	HULL

Ques 4:

```
23
24 insert into employee
25 values(7,'Raktim',25,'Design','Noida',31000);
26
27 select name,age
28 from employee
29 where age in (25,27);
30
```

NAME	AGE
Prabhat	25
Rimpa	27

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2 rows selected.

```
26
27 select name,age
28 from employee
29 where age between 24 and 28;
30
```

NAME	AGE
Prabhat	25
Rimpa	27
Rahul	28

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3 rows selected.

Ques5:

```
35
36     #employee with minimum salary
37 •   SELECT name,salary from employee where salary=(select min(salary) from employee);
38
39
100% 82:37
```

Result Grid Filter Rows: Search Export:

name	salary
Rimpa	20000

Ques 6:

```
39
40     #total number of employee
41 •   SELECT COUNT(ID), department
42     FROM employee
43     GROUP BY department; #lists the number of employees in each department
44
100% 71:43
```

Result Grid Filter Rows: Search Export:

COUNT(ID)	department
1	Sales
2	Manufacturing
3	Finance
1	Design

Ques 7:

```
33 UPDATE employee
34 SET
35     age=32
36 WHERE
37     address='Kerela';
38 SELECT
39     age,address
40 FROM
41     employee
42 WHERE
43     address='Kerela';
```

1 row(s) updated.

AGE	ADDRESS
32	Kerela

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Ques 8:

```
44
45      #decresing order of salary
46 •  select * from employee order by salary desc;
47
48
100%  45:46
```

Result Grid Filter Rows: Search Edit: Export/Import:

ID	name	age	department	address	salary
4	Sagar	29	Finance	Noida	34000
7	Raktim	25	Design	Noida	31000
3	Saikat	31	Manufacturing	Kolkota	30000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000
1	Prabhat	25	Sales	Delhi	25000
2	Rimpa	27	Manufacturing	Mumbai	20000

Ques 9:

```
47
48      #name of department with more than 2 employee
49      #having
50 •  SELECT COUNT(ID), department
51      FROM employee
52      GROUP BY department
53      HAVING COUNT(ID) > 2;
54
55
100%  23:53
```

Result Grid Filter Rows: Search Export:

COUNT(ID)	department
3	Finance

Ques 10:

```
54
55      #average salary of employee
56 •  SELECT AVG(salary) FROM employee;
57
58
59
60
100%  1:57
```

Result Grid Filter Rows: Search Export:

AVG(salary)
28000.0000

