

# Lab Assignment-2



**THAPAR INSTITUTE**  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)

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**CSBS/BS-3**

**1. Create table emp which has the following attributes  
(employee table)  
(empno, ename, job, sal, deptno)**

```
create table emp(  
empno int PRIMARY KEY,  
ename varchar(20),  
job char(20),  
sal int CHECK (sal>0),  
deptno int  
);
```

```
1 create table emp(  
2 empno int PRIMARY KEY,  
3 ename varchar(20),  
4 job char(20),  
5 sal int CHECK (sal>0),  
6 deptno int  
7 );  
8  
9 desc emp;  
10 insert into emp values(1, 'Raj', 'Salesperson', 2000, 10);  
11 insert into emp values(2, 'Raman', 'Clerk', 3000, 20);  
12 insert into emp values(3, 'Abhinav', 'HR', 3500, 30);  
13 insert into emp values(4, 'Chris', 'Salesperson', 2000, 60);  
14 insert into emp values(5, 'Cody', 'Clerk', 1500, 50);  
15 insert into emp values(6, 'Abhishek', 'Salesperson', 2300, 20);  
16 insert into emp values(7, 'Armaan', 'Manager', 4000, 40);  
17 insert into emp values(8, 'Eric', 'Clerk', 3000, 30);  
18 insert into emp values(9, 'Mac', 'Clerk', 1500, 50);  
19 insert into emp values(10, 'Preet', 'Peon', NULL, 30);
```

Table created.

## 2. Insert appropriate records in above tables.

```
insert into emp values(1,'Raj','Salesperson',2000,10);
insert into emp values(2,'Raman','Clerk',3000,20);
insert into emp values(3,'Abhinav','HR',3500,30);
insert into emp values(4,'Chris','Salesperson',2000,60);
insert into emp values(5,'Cody','Clerk',1500,50);
insert into emp values(6,'Abhishek','Salesperson',2300,20);
insert into emp values(7,'Armaan','Manager',4000,40);
insert into emp values(8,'Eric','Clerk',3000,30);
insert into emp values(9,'Mac','Clerk',1500,50);
insert into emp values(10,'Preet','Peon',NULL,30);
```

```
9 desc emp;
10 insert into emp values(1, 'Raj', 'Salesperson', 2000, 10);
11 insert into emp values(2, 'Raman', 'Clerk', 3000, 20);
12 insert into emp values(3, 'Abhinav', 'HR', 3500, 30);
13 insert into emp values(4, 'Chris', 'Salesperson', 2000, 60);
14 insert into emp values(5, 'Cody', 'Clerk', 1500, 50);
15 insert into emp values(6, 'Abhishek', 'Salesperson', 2300, 20);
16 insert into emp values(7, 'Armaan', 'Manager', 4000, 40);
17 insert into emp values(8, 'Eric', 'Clerk', 3000, 30);
18 insert into emp values(9, 'Mac', 'Clerk', 1500, 50);
19 insert into emp values(10, 'Preet', 'Peon', NULL, 30);
20
21
22 select * from emp;
23
24 select empno,ename from emp where deptno=10;
25
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

### 3. Get employee no and employee name who works in dept no 10

select empno,ename from emp where deptno=10;

```
22 select * from emp;  
23  
24 select empno,ename from emp where deptno=10;  
25  
26 select ename,sal from emp where job='Clerk' and sal>2000;  
27  
28 select ename,sal from emp where job='Clerk' or job ='Salesperson';  
29  
30 select * from emp where sal between 2000 and 3000;  
31  
32 select * from emp where dept in (10,20,30);  
33  
34 select * from emp where sal is NULL;  
35
```

EMPNO	ENAME
1	Raj

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### 4. Display the employee names of those clerks whose salary > 2000

select ename,sal from emp where job='Clerk' and sal>2000;

```

24 select empno,ename from emp where deptno=10;
25
26 select ename,sal from emp where job='Clerk' and sal>2000;
27
28 select ename,sal from emp where job='Clerk' or job ='Salesperson';
29
30 select * from emp where sal between 2000 and 3000;
31
32 select * from emp where dept in (10,20,30);
33
34 select * from emp where sal is NULL;
35

```

Resize Code Editor

ENAME	SAL
Raman	3000
Eric	3000

## 5. Display name and sal of Salesperson & Clerks

select ename,sal from emp where job='Clerk' or job ='Salesperson';

```

27
28 select ename,sal from emp where job='Clerk' or job ='Salesperson';
29
30 select * from emp where sal between 2000 and 3000;
31
32 select * from emp where dept in (10,20,30);
33

```

ENAME	SAL
Raj	2000
Raman	3000
Chris	2000
Cody	1500
Abhishek	2300
Eric	3000
Mac	1500

## 6. Display all details of employees whose salary between 2000 and 3000

select \* from emp where sal between 2000 and 3000;

```
29  
30 select * from emp where sal between 2000 and 3000;  
31  
32 select * from emp where deptno in (10,20,30);  
33  
34 select * from emp where sal is NULL;  
35  
36 select deptno,sal from emp order by deptno asc,sal desc;  
37  
38 select ename from emp where lower(ename) like 'c%';
```

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Raj	Salesperson	2000	10
2	Raman	Clerk	3000	20
4	Chris	Salesperson	2000	60
6	Abhishek	Salesperson	2300	20
8	Eric	Clerk	3000	30

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5 rows selected.

## 7. Display all details of employees whose dept no is 10, 20, or 30

select \* from emp where deptno in (10,20,30);

```

31
32 select * from emp where deptno in (10,20,30);
33
34 select * from emp where sal is NULL;
35
36 select deptno,sal from emp order by deptno asc,sal desc;
37
38 select ename from emp where lower(ename) like 'c%';

```

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Raj	Salesperson	2000	10
2	Raman	Clerk	3000	20
3	Abhinav	HR	3500	30
6	Abhishek	Salesperson	2300	20
8	Eric	Clerk	3000	30
10	Preet	Peon	-	30

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6 rows selected.

## 8. Display name of those employees whose commission is NULL

select \* from emp where sal is NULL;

```

33
34 select * from emp where sal is NULL;
35
36 select deptno,sal from emp order by deptno asc,sal desc;
37
38 select ename from emp where lower(ename) like 'c%';

```

EMPNO	ENAME	JOB	SAL	DEPTNO
10	Preet	Peon	-	30

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## 9. Display dept no & salary in ascending order of dept no and with in each dept no salary should be in descending order

select deptno,sal from emp order by deptno asc,sal desc;

```
36 select deptno,sal from emp order by deptno asc,sal desc;  
37  
38 select ename from emp where lower(ename) like 'c%';
```

DEPTNO	SAL
10	2000
20	3000
20	2300
30	-
30	3500
30	3000
40	4000
50	1500
50	1500
60	2000

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## 10. Display name of employees that starts with 'C'

select ename from emp where lower(ename) like 'c%';



```

38 select ename from emp where lower(ename) like 'c%';
39
40 select ename from emp where lower(ename) like '%c';
41
42 select ename from emp where lower(ename) like '%a%a%';

```

ENAME
Chris
Cody

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2 rows selected.

## 11. Display name of employees that ends with with 'C'

select ename from emp where lower(ename) like '%c';

```

39
40 select ename from emp where lower(ename) like '%c';
41
42 select ename from emp where lower(ename) like '%a%a%';
43
44 select ename from emp where lower(ename) like '_b%';
45
46 select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';

```

ENAME
Eric
Mac

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2 rows selected.

## 12. Display name of employees having two 'a' or 'A' chars in the name

select ename from emp where lower(ename) like '%a%a%';

```
42 select ename from emp where lower(ename) like '%a%a%';
43
44 select ename from emp where lower(ename) like '_b%';
45
46 select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';
```

ENAME
Raman
Abhinav
Armaan

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## 13. Display the name of the employees whose second char is 'b' or 'B'

select ename from emp where lower(ename) like '\_b%';

```
44 select ename from emp where lower(ename) like '_b%';
45
46 select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';
```

ENAME
Abhinav
Abhishek

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2 rows selected.

## 14. Display the name of the employees whose first or last char is 'a' or 'A'

select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';

46	select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';
----	---

  

ENAME
Abhinav
Abhishek
Armaan

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### Code –

```
create table emp(
empno int PRIMARY KEY,
ename varchar(20),
job char(20),
sal int CHECK (sal>0),
deptno int
);

desc emp;
insert into emp values(1,'Raj','Salesperson',2000,10);
insert into emp values(2,'Raman','Clerk',3000,20);
insert into emp values(3,'Abhinav','HR',3500,30);
insert into emp values(4,'Chris','Salesperson',2000,60);
insert into emp values(5,'Cody','Clerk',1500,50);
insert into emp values(6,'Abhishek','Salesperson',2300,20);
insert into emp values(7,'Armaan','Manager',4000,40);
insert into emp values(8,'Eric','Clerk',3000,30);
insert into emp values(9,'Mac','Clerk',1500,50);
insert into emp values(10,'Preet','Peon',NULL,30);

select * from emp;
```

```
select empno,ename from emp where deptno=10;
```

```
select ename,sal from emp where job='Clerk' and sal>2000;
```

```
select ename,sal from emp where job='Clerk' or job ='Salesperson';
```

```
select * from emp where sal between 2000 and 3000;
```

```
select * from emp where dept in (10,20,30);
```

```
select * from emp where sal is NULL;
```

```
select deptno,sal from emp order by deptno asc,sal desc;
```

```
select ename from emp where lower(ename) like 'c%';
```

```
select ename from emp where lower(ename) like '%c';
```

```
select ename from emp where lower(ename) like '%a%a%';
```

```
select ename from emp where lower(ename) like '_b%';
```

```
select ename from emp where lower(ename) like '%a' or lower(ename) like 'a%';
```