Assignment-1

Dept Table:

DeptNo	Dname	Loc
10	Accounts	Bangalore
20	IT	Delhi
30	Production	Chennai
40	Sales	Hyd
50	Admn	London

Emp Table:

EmpNo	Ename	Sal	Hire_Date	Commission	DeptNo	Mgr
1001	Sachin	19000	1-Jan-1980	2100	20	1003
1002	Kapil	15000	1-Jan-1970	2300	10	1003
1003	Stefen	12000	1-Jan-1990	500	20	1007
1004	Williams	9000	1-Jan-2001	NULL	30	1007
1005	John	5000	1-Jan-2005	NULL	30	1006
1006	Dravid	19000	1-Jan-1985	2400	10	1007
1007	Martin	21000	1-Jan-2000	1040	NULL	NULL

1) Select employee details of dept number 10 or 30.

```
40  1.
41  select * from emp
42  where deptno in (10,30);
```

Data Output | Messages | Notifications

	empno [PK] integer	ename character varying (50)	sal integer	hire_date date	commission integer	deptno integer	mgr integer
1	1002	Kapil	15000	1970-01-01	2300	10	1003
2	1004	Williams	9000	2001-01-01	[null]	30	1007
3	1005	John	5000	2005-01-01	[null]	30	1006
4	1006	Dravid	19000	1985-01-01	2400	10	1007

2) Write a query to fetch all the dept details with more than 1 Employee.

```
44  2.
45  select dept.* from emp join dept
46  on emp.deptno=dept.deptno
47  group by dept.deptno
48  having count(emp.empno)>1;
```

Data Output | Messages | Notifications

	deptno [PK] integer	dname character varying (50)	loc character varying (50)
1	10	Accounts	Bangalore
2	20	IT	Delhi
3	30	Production	Chennai

3) Write a query to fetch employee details whose name starts with the letter "**S"**

```
3.
select * from emp
where substr(ename,1,1)='S';
```

Data Output | Messages | Notifications

	empno [PK] integer	ename character varying (50)	sal integer	hire_date date	commission integer	deptno integer	mgr integer
1	1001	Sachin	19000	1980-01-01	2100	20	1003
2	1003	Stefen	12000	1990-01-01	500	20	1007

4) Select Emp Details Whose experience is more than 2 years

```
4.
select * from emp
where hire_date < current_date-interval '2years';
```

Data Output | Messages | Notifications

	empno [PK] integer	ename character varying (50)	sal integer	hire_date date	commission integer	deptno integer	mgr integer
1	1001	Sachin	19000	1980-01-01	2100	20	1003
2	1002	Kapil	15000	1970-01-01	2300	10	1003
3	1003	Stefen	12000	1990-01-01	500	20	1007
4	1004	Williams	9000	2001-01-01	[null]	30	1007
5	1005	John	5000	2005-01-01	[null]	30	1006
6	1006	Dravid	19000	1985-01-01	2400	10	1007
7	1007	Martin	21000	2000-01-01	1040	[null]	[null]

5) Write a SELECT statement to replace the char "a" with "#" in Employee Name (Ex: **Sachin** as **S#chin)**

```
5.
select replace(ename,'a','#') as modifiedname
from emp;
```

Data Output | Messages | Notifications

	modifiedname text
1	S#chin
2	K#pil
3	Stefen
4	Willi#ms
5	John
6	Dr#vid
7	M#rtin

6) Write a query to fetch employee name and his/her manager name.

```
6.
select e.ename empname,m.ename mgrname
from emp e left join emp m
on e.mgr=m.empno;
```

Data Output | Messages | Notifications

	empname character varying (50)	mgrname character varying (50)
1	Sachin	Stefen
2	Kapil	Stefen
3	Stefen	Martin
4	Williams	Martin
5	John	Dravid
6	Dravid	Martin
7	Martin	[null]

7) Fetch Dept Name, Total Salary of the Dept

```
7.
select d.dname, sum(e.sal) totalsal
from emp e join dept d
on e.deptno=d.deptno
group by d.dname;
```

Data Output | Messages | Notifications

	dname character varying (50)	totalsal bigint
1	Accounts	34000
2	IT	31000
3	Production	14000

8) Write a query to fetch **ALL** the employee details along with department name, department location, irrespective of employee existence in the department.

```
8.
select e.*,d.dname,d.loc
from emp e right join dept d
on e.deptno=d.deptno;
```

Data Output | Messages | Notifications

Showing rows: 1 to 8 | Page No:

	empno integer	ename character varying (50)	sal integer	hire_date date	commission integer	deptno integer	mgr integer	dname character varying (50)	loc character varying (50)
1	1001	Sachin	19000	1980-01-01	2100	20	1003	IT	Delhi
2	1002	Kapil	15000	1970-01-01	2300	10	1003	Accounts	Bangalore
3	1003	Stefen	12000	1990-01-01	500	20	1007	IT	Delhi
4	1004	Williams	9000	2001-01-01	[null]	30	1007	Production	Chennai
5	1005	John	5000	2005-01-01	[null]	30	1006	Production	Chennai
6	1006	Dravid	19000	1985-01-01	2400	10	1007	Accounts	Bangalore
7	[null]	[null]	[null]	[null]	[null]	[null]	[null]	Sales	Hyd
8	[null]	[null]	[null]	[null]	[null]	[null]	[null]	Admn	London

9) Write an update statement to increase the employee salary by 10 %

```
9.
update emp
set sal=sal+sal*10/100;
select sal from emp;
```

Data Output | Messages | Notifications

	sal integer
1	20900
2	16500
3	13200
4	9900
5	5500
6	20900
7	23100

10) Write a statement to delete employees belong to Chennai location.

```
10.
delete from emp
where deptno in(select deptno from dept
                where loc='Chennai');
select d.loc, e.*
from emp e right join dept d
on e.deptno=d.deptno
where loc='Chennai';
```

Data Output | Messages | Notifications

Showing rows:

	loc character varying (50)	empno integer	ename character varying (50)	sal integer	hire_date date	commission integer	deptno integer	mgr integer
1	Chennai	[null]	[null]	[null]	[null]	[null]	[null]	[null]

11) Get Employee Name and gross salary (sal + comission) .

```
11.
select ename, sal+coalesce(commission,0) grosssalary
from emp;
```

Data Output | Messages | Notifications

	ename character varying (50)	grosssalary integer
1	Sachin	23000
2	Kapil	18800
3	Stefen	13700
4	Dravid	23300
5	Martin	24140

12) Increase the data length of the column Ename of Emp table from 100 to 250 using ALTER statement

```
97   12.
98   alter table emp
99   alter column ename type varchar(250);
100  select ename from emp;
```

Data Output | Messages | Notifications

	ename character varying (250)
1	Sachin
2	Kapil
3	Stefen
4	Dravid
5	Martin

13) Write query to get current datetime

```
103  13.
104  select current_date;
```

Data Output | Messages | Notifica

	current_date date
1	2026-01-14

14) Write a statement to create STUDENT table, with related 5 columns

```
106  14.
107  create table Student (
108      student_id int,
109      student_name varchar(100),
110      age int,
111      course varchar(50),
112      join_date date
113  );
114  select * from student;
```

Data Output | Messages | Notifications

	student_id integer	student_name character varying (100)	age integer	course character varying (50)	join_date date

15) Write a query to fetch number of employees in who is getting salary more than 10000

```
15.
select count(empno) empcount from emp
where sal>10000;
```

Data Output | Messages | Notifications

	empcount bigint
1	5

16) Write a query to fetch minimum salary, maximum salary and average salary from emp table.

```
16.
select min(sal),max(sal),avg(sal)
from emp;
```

Data Output | Messages | Notifications

	min integer	max integer	avg numeric
1	13200	23100	18920.000000000000

17) Write a query to fetch number of employees in each location

```
17.
select count(e.empno),d.loc
from emp e right join dept d
on e.deptno=d.deptno
group by d.loc;
```

Data Output | Messages | Notifications

	count bigint	loc character varying (50)
1	2	Delhi
2	0	Hyd
3	0	Chennai
4	0	London
5	2	Bangalore

18) Write a query to display employee names in descending order

```
18.
select ename from emp
order by ename desc;
```

Data Output | Messages | Notificatic

	ename character varying (250)
1	Stefen
2	Sachin
3	Martin
4	Kapil
5	Dravid

19) Write a statement to create a new table(**EMP_BKP**) from the existing **EMP** table

```
19.
create table emp_bk as
select * from emp;
select * from emp_bk;
```

Data Output | Messages | Notifications

	empno integer	ename character varying (250)	sal integer	hire_date date	commission integer	deptno integer	mgr integer
1	1001	Sachin	20900	1980-01-01	2100	20	1003
2	1002	Kapil	16500	1970-01-01	2300	10	1003
3	1003	Stefen	13200	1990-01-01	500	20	1007
4	1006	Dravid	20900	1985-01-01	2400	10	1007
5	1007	Martin	23100	2000-01-01	1040	[null]	[null]

20) Write a query to fetch first 3 characters from employee name appended with salary.

```
20.
select substr(ename,1,3)||sal as emp_info
from emp;
```

Data Output | Messages | Notifications

	emp_info text
1	Sac20900
2	Kap16500
3	Ste13200
4	Dra20900
5	Mar23100