Assignment-3

- Create two tables with the following information:

Name of table: **emp**
columns and data types: empid varchar (10) (PK), name varchar(20), deptid varchar(10), salary number(8);

```
create table emp_02(empid varchar(10) primary key,
   -> name varchar(20),
   -> deptid varchar(10),
   -> salary int(8));
```

//display the table
desc emp_02;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| empid  | varchar(10) | NO   | PRI | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| deptid | varchar(10) | YES  |     | NULL    |       |
| salary | int         | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

Name of table: **dept**
columns and data types: deptid varchar (10) (PK), dname varchar(20), dloc varchar(20);

```
create table dept_02(deptid varchar(10) primary key,
   -> dname varchar(20),
   -> dloc varchar(20));
```

//display the table
desc dept_02;

```
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| deptid | varchar(10) | NO   | PRI | NULL    |       |
| dname  | varchar(20) | YES  |     | NULL    |       |
| dloc   | varchar(20) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
```

Write queries for the following:

I. Inserting some data into both the tables

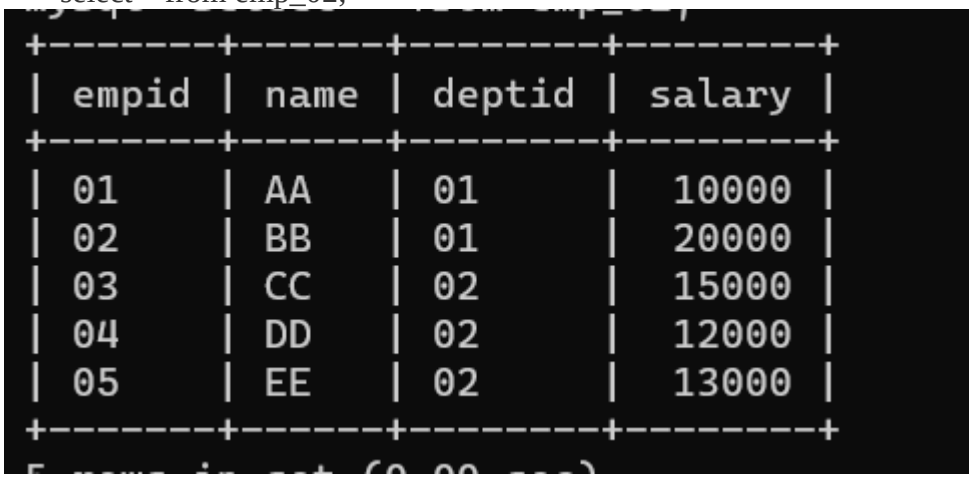
//for emp_02

```
insert into emp_02 values(
   -> '01','AA','01',10000);
insert into emp_02 values(
```

```
    -> '02','BB','01',20000);
insert into emp_02 values(
    -> '03','CC','02',15000);
insert into emp_02 values(
    -> '04','DD','02',12000);
insert into emp_02 values(
    -> '05','EE','02',13000);
```

//show the full table

```
select * from emp_02;
```



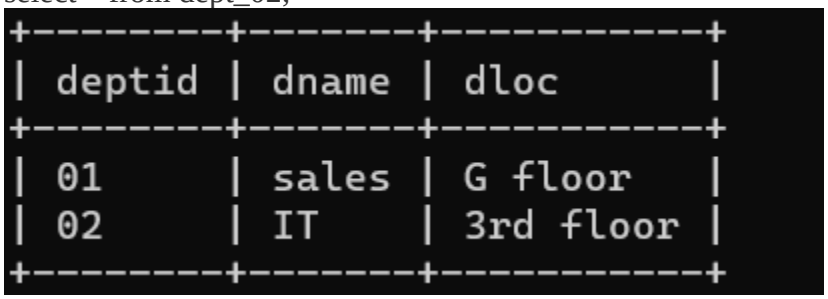
empid	name	deptid	salary
01	AA	01	10000
02	BB	01	20000
03	CC	02	15000
04	DD	02	12000
05	EE	02	13000

//for dept_02

```
insert into dept_02 values(
    -> '01','sales','G floor');
insert into dept_02 values(
    -> '02','IT','3rd floor');
```

//show the full table

```
select * from dept_02;
```



deptid	dname	dloc
01	sales	G floor
02	IT	3rd floor

II .Find the name of highest paying employee of each department

```
select emp_02.name from emp_02
    -> where emp_02.salary in
    -> (select max(salary) from emp_02 group by deptid);
```

name
BB
CC

III .Display the records of emp table who are working in department name ‘Sales’.

select empid,name,deptid,salary from emp_02 where deptid=(select deptid from dept_02 where dname='sales');

(or)

select * from emp_02 where deptid=(select deptid from dept_02 where dname='sales');

empid	name	deptid	salary
01	AA	01	10000
02	BB	01	20000

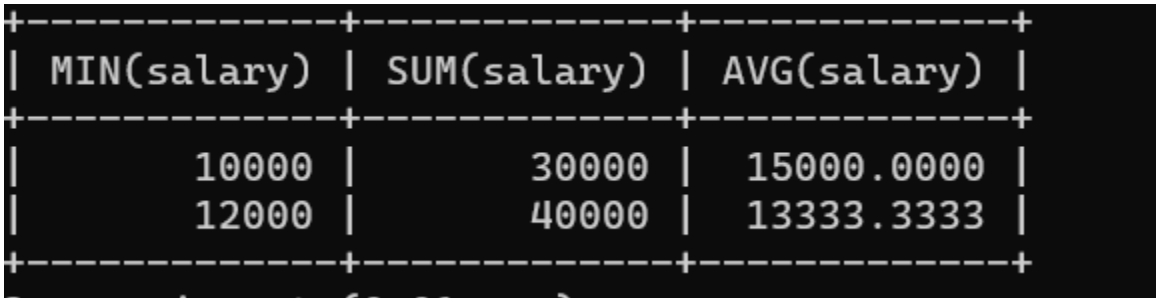
IV .Display the records of emp table in descending order of the salary.

select * from emp_02 order by salary desc;

empid	name	deptid	salary
02	BB	01	20000
03	CC	02	15000
05	EE	02	13000
04	DD	02	12000
01	AA	01	10000

V .Display the minimum, total, average salary of each dept.

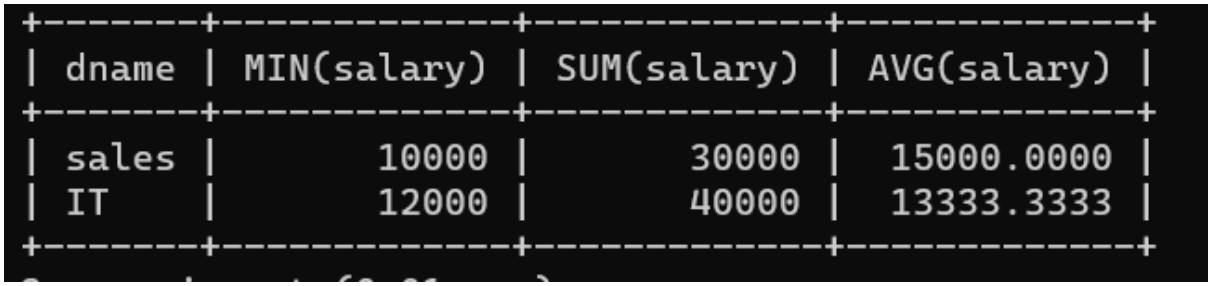
select MIN(salary),SUM(salary),AVG(salary) from emp_02 join dept_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid;



MIN(salary)	SUM(salary)	AVG(salary)
10000	30000	15000.0000
12000	40000	13333.3333

VI .Display the minimum, total, average salary of each job.

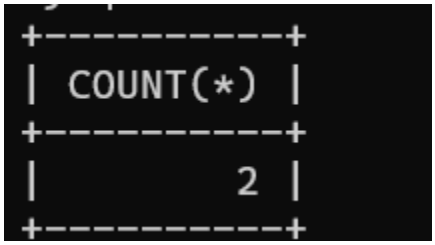
select dname,MIN(salary),SUM(salary),AVG(salary) from emp_02 join dept_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid;



dname	MIN(salary)	SUM(salary)	AVG(salary)
sales	10000	30000	15000.0000
IT	12000	40000	13333.3333

VII .Display the count of employee who earns more than the overall average salary.

select COUNT(*) from emp_02 where salary>(select AVG(salary) from emp_02);



COUNT(*)
2

VIII .Display the details of employees working at ‘1st floor’.

select * from emp_02 where deptid=(select deptid from dept_02 where dloc='1st floor');

Empty set (0.00 sec)

VIII .Display the details of employees working at ‘3rd floor’.

select * from emp_02 where deptid=(select deptid from dept_02 where dloc='3rd floor');

empid	name	deptid	salary
03	CC	02	15000
04	DD	02	12000
05	EE	02	13000

IX .Display the count of employees in each department.

select COUNT(*) from emp_02 join dept_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid;

COUNT(*)
2
3

X .Display the department which employees have average salary greater than 20000.

select dname from dept_02 join emp_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid having AVG(emp_02.salary)>20000;

```
Empty set (0.01 sec)
```

(or)

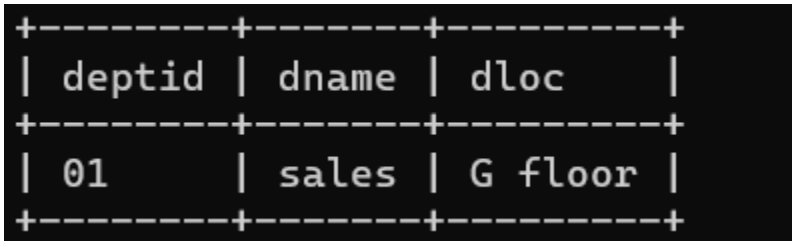
X .Display the department which employees have average salary greater than 14000.

select dname from dept_02 join emp_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid having AVG(emp_02.salary)>14000;

dname
sales

(or)

select dept_02.deptid,dname,dloc from dept_02 join emp_02 on emp_02.deptid=dept_02.deptid group by dept_02.deptid having AVG(emp_02.salary)>14000;



deptid	dname	dloc
01	sales	G floor