

DBMS ASSIGNMENT 3
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ROLL NUMBER: 39/CSE/17086/284
REG NO: 284

1) Add 5 rows in the employee and dept tables

```
Activities Terminal Jan 29 22:57
srijan@srijan-Lenovo-Ideapad-320-15ISK: ~
mysql> insert into employee values('a-170','Govind Singh','1988-02-09','Delhi, India','2000-03-08','8383838383',1,23000,'Manager');
Query OK, 1 row affected (0.43 sec)

mysql> insert into employee values('b-120','Rajesh Kumar','1989-08-01','Indore,India','2001-05-08','9090909090',2,17000,'Typist');
Query OK, 1 row affected (0.20 sec)

mysql> insert into employee values('c-130','Ramesh Powar','1990-10-09','Mumbai,India','2002-02-02','8908908900',3,15000,'Sales');
Query OK, 1 row affected (0.19 sec)

mysql> insert into employee values('b-121','John Victor','1991-01-18','Kochin, India','2002-08-22','8089808988',2,18000,'Typist');
Query OK, 1 row affected (0.53 sec)

mysql> insert into employee values('d-150','Asif Sheik','1992-09-20','Srinagar, India','2003-10-22','7678767879',4,10000,'Clerk');
Query OK, 1 row affected (0.17 sec)

mysql> drop table department
-> ;
Query OK, 0 rows affected (0.51 sec)

mysql> create table department(dept_no INT(2), dept_name varchar(20),location varchar(30), PRIMARY KEY(dept_no));
Query OK, 0 rows affected, 1 warning (0.99 sec)

mysql> insert into department values(1,'Management','A wing, Morrison Colony');
Query OK, 1 row affected (0.39 sec)

mysql> insert into department values(2,'Main Factory','B wing, Morrison Colony');
Query OK, 1 row affected (0.19 sec)

mysql> insert into department values(3,'Sales and Marketing','C wing, Morrison Colony');
Query OK, 1 row affected (0.18 sec)

mysql> insert into department values(4,'Administration','D wing, Morrison Colony');
Query OK, 1 row affected (0.20 sec)

mysql> insert into department values(5,'Others','E wing, Morrison Colony');
Query OK, 1 row affected (0.18 sec)

mysql>
```

2) Display all the records from the above tables

select * from employee;

```
mysql> select * from employee;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | dob       | address      | doj       | mobile_no | dept_no | salary | designation |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| a-170  | Govind Singh | 1988-02-09 | Delhi, India | 2000-03-08 | 8383838383 | 1       | 23000  | Manager     |
| b-120  | Rajesh Kumar | 1989-08-01 | Indore,India | 2001-05-08 | 9090909090 | 2       | 17000  | Typist      |
| b-121  | John Victor | 1991-01-18 | Kochin, India | 2002-08-22 | 8089808988 | 2       | 18000  | Typist      |
| c-130  | Ramesh Powar | 1990-10-09 | Mumbai,India | 2002-02-02 | 8908908900 | 3       | 15000  | Sales       |
| d-150  | Asif Sheik  | 1992-09-20 | Srinagar, India | 2003-10-22 | 7678767879 | 4       | 10000  | Clerk       |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from department;
+-----+-----+-----+
| dept_no | dept_name      | location      |
+-----+-----+-----+
| 1       | Management     | A wing, Morrison Colony |
| 2       | Main Factory   | B wing, Morrison Colony |
| 3       | Sales and Marketing | C wing, Morrison Colony |
| 4       | Administration | D wing, Morrison Colony |
| 5       | Others         | E wing, Morrison Colony |
+-----+-----+-----+
```

3) Display the empno and name of all the employee from department no2

select emp_no ,emp_name from employee where dept_no = 2;

```
mysql> select emp_no, emp_name from employee where dept_no = 2;
+-----+-----+
| emp_no | emp_name |
+-----+-----+
| b-120  | Rajesh Kumar |
| b-121  | John Victor |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

4) Display the empno, name, designation, dept_no and salary in the descending order of salary.

Select emp_no, emp_name, designation, dept_no, salary from employee order by salary desc;

```
mysql> select emp_no, emp_name, designation, dept_no, salary from employee order by salary desc;
+-----+-----+-----+-----+-----+
| emp_no | emp_name | designation | dept_no | salary |
+-----+-----+-----+-----+-----+
| a-170  | Govind Singh | Manager | 1 | 23000 |
| b-121  | John Victor | Typist | 2 | 18000 |
| b-120  | Rajesh Kumar | Typist | 2 | 17000 |
| c-130  | Ramesh Powar | Sales | 3 | 15000 |
| d-150  | Asif Sheik | Clerk | 4 | 10000 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

5) Display the emp_no and name of all employees whose salary is between 10000 and 15000.

select * from employee where salary >=10000 and salary <=15000

```
mysql> select * from employee where salary >=10000 and salary <=15000;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| emp_no | emp_name | dob | address | doj | mobile_no | dept_no | salary | designation |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| c-130  | Ramesh Powar | 1990-10-09 | Mumbai, India | 2002-02-02 | 8908908900 | 3 | 15000 | Sales |
| d-150  | Asif Sheik | 1992-09-20 | Srinagar, India | 2003-10-22 | 7678767879 | 4 | 10000 | Clerk |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

6) Display all the designations without duplicate values.

Select distinct designation from employee;

```
mysql> select distinct designation from employee;
+-----+
| designation |
+-----+
| Manager |
| Typist |
| Sales |
| Clerk |
+-----+
4 rows in set (0.09 sec)

mysql>
```

7) Display the dept name and total salary of employees of each department

create table temp select dept_no, sum(salary) as total from employee group by dept_no;
select department.dept_name, temp.total from department inner join temp on temp.dept_no = department.dept_no;

```
mysql> create table temp select dept_no, sum(salary) as total from employee group by dept_no;
Query OK, 4 rows affected (0.68 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select department.dept_name,temp.total from department inner join temp on temp.dept_no = department.dept_no;
+-----+-----+
| dept_name | total |
+-----+-----+
| Management | 23000 |
| Main Factory | 35000 |
| Sales and Marketing | 15000 |
| Administration | 10000 |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

8) Change the salary of employees to 25000 whose designation is 'Typist'
update employee set salary = 25000 where designation = 'Typist';

```
mysql> select * from employee;
```

emp_no	emp_name	dob	address	doj	mobile_no	dept_no	salary	designation
a-170	Govind Singh	1988-02-09	Delhi, India	2000-03-08	8383838383	1	23000	Manager
b-120	Rajesh Kumar	1989-08-01	Indore, India	2001-05-08	9090909090	2	25000	Typist
b-121	John Victor	1991-01-18	Kochin, India	2002-08-22	8089808988	2	25000	Typist
c-130	Ramesh Powar	1990-10-09	Mumbai, India	2002-02-02	8908908900	3	15000	Sales
d-150	Asif Sheik	1992-09-20	Srinagar, India	2003-10-22	7678767879	4	10000	Clerk

```
5 rows in set (0.00 sec)
```

```
mysql>
```

9) Change the mobile number of employee name 'John Victor'

```
update employee set mobile_no = '8282827890' where emp_name = 'John Victor';
```

```
mysql> update employee set mobile_no = '8282827890' where emp_name = 'John Victor';
Query OK, 1 row affected (1.87 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from employee;
```

emp_no	emp_name	dob	address	doj	mobile_no	dept_no	salary	designation
a-170	Govind Singh	1988-02-09	Delhi, India	2000-03-08	8383838383	1	23000	Manager
b-120	Rajesh Kumar	1989-08-01	Indore,India	2001-05-08	9090909090	2	25000	Typist
b-121	John Victor	1991-01-18	Kochin, India	2002-08-22	8282827890	2	25000	Typist
c-130	Ramesh Powar	1990-10-09	Mumbai,India	2002-02-02	8908908900	3	15000	Sales
d-150	Asif Sheik	1992-09-20	Srinagar, India	2003-10-22	7678767879	4	10000	Clerk

```
5 rows in set (0.00 sec)

mysql>
```

10) Delete all employees whose salaries are equal to 10000

```
delete from employee where salary = 10000;
```

```
mysql> delete from employee where salary = 10000;
Query OK, 1 row affected (0.16 sec)

mysql> select * from employee;
```

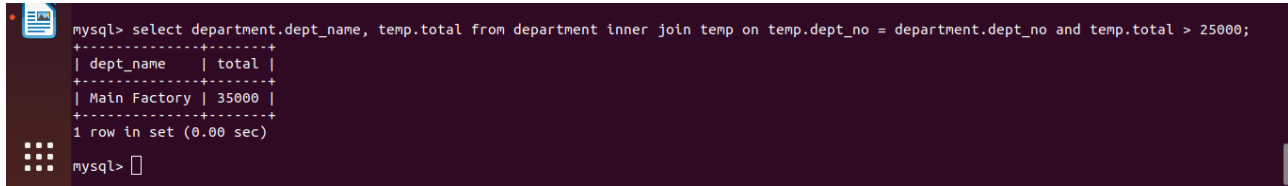
emp_no	emp_name	dob	address	doj	mobile_no	dept_no	salary	designation
a-170	Govind Singh	1988-02-09	Delhi, India	2000-03-08	8383838383	1	23000	Manager
b-120	Rajesh Kumar	1989-08-01	Indore, India	2001-05-08	9090909090	2	25000	Typist
b-121	John Victor	1991-01-18	Kochin, India	2002-08-22	8282827890	2	25000	Typist
c-130	Ramesh Powar	1990-10-09	Mumbai, India	2002-02-02	8908908900	3	15000	Sales

```
4 rows in set (0.00 sec)

mysql>
```

11) Select the department that has total salary paid for its employee more than 25000.

select department.dept_name, temp.total from department inner join temp on temp.dept_no = department.dept_no and temp.total > 25000;

A terminal window with a dark background. The prompt is 'mysql>'. The query entered is 'select department.dept_name, temp.total from department inner join temp on temp.dept_no = department.dept_no and temp.total > 25000;'. The output shows a table with two columns: 'dept_name' and 'total'. The first row is 'Main Factory' with a total of '35000'. Below the table, it says '1 row in set (0.00 sec)'. The prompt 'mysql>' is shown again at the bottom.

```
mysql> select department.dept_name, temp.total from department inner join temp on temp.dept_no = department.dept_no and temp.total > 25000;
+-----+-----+
| dept_name | total |
+-----+-----+
| Main Factory | 35000 |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```