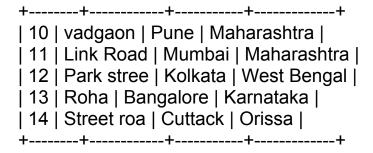**Roll No:**
Student Name:
Program and Output:

Drop table branchmaster;
Create table Branchmaster(branch_id int, branch_name varchar(15));

Insert into branchmaster values (1, 'Kharadi');
Insert into branchmaster values (2, 'wagholi');
Insert into branchmaster values (3, 'Hadapsar');

Select * from branchmaster;

Drop table empmaster;
Create table Empmaster(emp_id int,emp_name varchar(15), branch_id int, salary int, dept varchar(15),manager_id varchar(10));

Insert into empmaster values(10, 'aryan',2,40000, 'manager',11);
Insert into empmaster values(11, 'kiran',4,20000, 'admin',12);
Insert into empmaster values(12, 'peter',3,50000, 'HR',13);

```
+--------+----------+-----------+--------+-----------+------------+
| emp_id | emp_name | branch_id | salary | dept | manager_id |
+--------+----------+-----------+--------+-----------+------------+
| 10 | Aryan | 2 | 40000 | Manager | NULL |
| 11 | Kiran | 4 | 5000 | Admin | 10 |
| 12 | Carol | 1 | 60000 | Assistant | 10 |
| 13 | Peter | 3 | 120000 | Senior | 10 |
| 14 | Bob | 5 | 110000 | HR | 10 |
+--------+----------+-----------+--------+-----------+------------+
```

Create table contactdetails(emp_id int,email_id varchar(20), phone_no int);

Insert into contactdetails values (10, 'peter@gmail.com',1234567890);
Insert into contactdetails values (11, 'kiran@gmail.com',1234567891);
Insert into contactdetails values (12, 'arayn@gmail.com',1234567892);

```
+--------+----------------+------------+
| emp_id | email_id | phone_no |
+--------+----------------+------------+
| 11 | kiran@gmail.com | 9890154761 |
| 10 | aryan@gmail.com | 8806058754 |
| 13 | peter@hotmail.c | 9373203456 |
+--------+----------------+------------+
```

Create table Branchaddress(branch_id int ,city varchar(15), state varchar(15));
Insert into Branchaddress values (1, 'pune', 'Maharashtra');
Insert into Branchaddress values (2, 'mumbai', 'Maharashtra');
Insert into Branchaddress values (3, 'kolkata', 'bengal');

```
+-----------+-----------+-------------+
| branch_id | city | state |
+-----------+-----------+-------------+
| 1 | Pune | Maharashtra |
| 2 | Kolkata | West Bengal |
| 3 | Mumbai | Maharashtra |
| 4 | Bangalore | Karnataka |
| 5 | Cuttack | Orissa |
+-----------+-----------+-------------+
```

Create table Empaddressdetails(emp_id int ,street varchar(20),city varchar(15),state varchar(15));

Insert into Empaddressdetails values (10, 'vadgoan','pune', 'Maharashtra');
Insert into Empaddressdetails values (11, 'link road', 'mumbai', 'Maharashtra');
Insert into Empaddressdetails values (12, 'park road','kolkata', 'bengal');

```
+--------+------------+-----------+-------------+
| emp_id | street | city | state |
```

```
+--------+------------+-----------+-------------+
| 10 | vadgaon | Pune | Maharashtra |
| 11 | Link Road | Mumbai | Maharashtra |
| 12 | Park stree | Kolkata | West Bengal |
| 13 | Roha | Bangalore | Karnataka |
| 14 | Street roa | Cuttack | Orissa |
+--------+------------+-----------+-------------+
```

Now apply the all queries on above table

2. List the employee details along with branch name using the inner join and in the order of emp_no.

select emp_id,emp_name,branch_name from Empmaster e inner join Branchmaster b on
e.branch_id=b.branch_id order by emp_id;

select emp_id,emp_name,branch_name from Empmaster e full join Branchmaster b on
e.branch_id=b.branch_id order by emp_id;

3. List the details of employee who belong to admin department along with the branch
name to which they belong.
select emp_name,dept,branch_name from Branchmaster b,Empmaster e where
b.branch_id=e.branch_id and dept='manager';

4. List the employee name along with the phone no and city using inner join.
select emp_name,phone_no,city from Empmaster e inner join Empaddressdetails a on
e.emp_id=a.emp_id inner join contactdetails c on e.emp_id=c.emp_id;

5. List the employee name with the contact details (if any).
select emp_name,email_id,phone_no from Empmaster e left join contactdetails c on
e.emp_id=c.emp_id;

6. List the employee contact details irrespective of whether they are working or have left.
delete from Empmaster where emp_id=12;

select * from Empmaster;

select emp_name,email_id,phone_no from Empmaster e right join contactdetails c on
e.emp_id=c.emp_id;

7. Retrieve the employee name and their respective manager name.
select e1.emp_name,e2.emp_name as Manager from Empmaster e1,Empmaster e2 where
e1.manager_id=e2.emp_id;

8. List the employee details along with branch name using natural join.
select emp_name,dept,branch_name,salary from Branchmaster b natural join Empmaster e;

9. List the employee names who work at the vadgaon branch along with the city of that employee.
select e.emp_id,emp_name,city from Empmaster e,Branchmaster b,Empaddressdetails a
where b.branch_name='wagholi' and b.branch_id=e.branch_id and
e.emp_id=a.emp_id;

10. Find the employee who works at the vadgaon branch with salary>10000 and list the
employee names with streets and city they live in.
select emp_name,street,city,salary from Empmaster e,Empaddressdetails a where
e.emp_id=a.emp_id and e.emp_id in(select emp_id from Branchmaster b,Empmaster c where
branch_name='Vadgaon' and salary>10000 and b.branch_id=c.branch_id);

11. Find the employees who live and work in same city.
select emp_name from Empmaster e,Branchmaster b,Empaddressdetails a,Branchaddress c where e.emp_id=a.emp_id and
b.branch_id=e.branch_id and
c.branch_id=b.branch_id and c.city=a.city;

12. Find the employees whose salaries are more than everybody who works at branch
vadgaon.
select emp_name from Empmaster where salary>all(select salary from Empmaster
e,Branchmaster b where e.branch_id=b.branch_id and
branch_name='Vadgaon');

13. Create a view which will contain total employees at each branch.
create view TotEmp as select branch_name,count(emp_id) as TotalEmployees from
Empmaster e,Branchmaster b where e.branch_id=b.branch_id group by e.branch_id;

select * from totemp;

14. List the branch names where employee have a salary>100000.
select branch_name from Empmaster e,Branchmaster b where
e.branch_id=b.branch_id
and salary<100000;

15. Create a view which will show the avg salary and the total salary at each branch.
<mark>create view Emp as select branch_name,avg(salary),sum(salary) from Empmaster e,Branchmaster b where e.branch_id=b.branch_id group by e.branch_id;</mark>

select * from emp;

16. Find the employee who do not have a job at vadgaon branch.
select emp_name from Empmaster e,Branchmaster b where e.branch_id=b.branch_id and
e.branch_id not in(select branch_id from Branchmaster where branch_name='vadgaon');