JOINS:

Inner join:

```
elect employee.name,employee.city,department.departmentName
   -> from employee
-> join department on employee.departmentId=department.departmentId;
                          marketing
sales
 Krishna
           Bangluru
Mumbai
Delhi
Delhi
                          sales
testing
devloping
                          marketing
 rows in set (0.28 sec)
city
                         departmentName
            Rajkot
                          marketing
                         sales
sales
testing
devloping
marketing
           Bangluru
Mumbai
Delhi
Delhi
 1ukky
ıysql> _
```

Left join (Left outer join):

Right join (Right outer join):

Full join:

select
employee.name, employee.city,
department.departmentName
from employee
full outer join department on
employee.departmentId=department.departmentId;

Full join using union:

```
nysql> select employee.name,employee.city,department.departmentName
       from employee left join department on employee.departmentId=department.departmentName \ensuremath{\mathsf{Le}}
       select employee.name,employee.city,department.departmentName
   -> from employee
-> right join department on employee.departmentId=department.departmentName;
                              departmentName
             Rajkot
Ahemedabad
Bangluru
Mumbai
                              NULL
NULL
                              NULL
             Delhi
Delhi
                              NULL
             NULL
                              marketing
devloping
              NULL
                              testing
                              sales
management
1 rows in set, 10 warnings (0.08 sec)
```

Difference between inner join and left outer join:

Nested join (Multi-Table joins):

Here we have join 3 tables (employee,department,salary)

Cross join:

```
Commandationer imped sound;

-> cross join employee;

| departmentName | name |
| management | Khushi |
| sales | Khushi |
| testing | Khushi |
| devloping | Khushi |
| marketing | Khushi |
| marketing | Khushi |
| marketing | Ram |
| devloping | Ram |
| devloping | Ram |
| management | Ram |
| management | Krishna |
| sales | Krishna |
| testing | Ram |
| management | Krishna |
| testing | Janvi |
| devloping | Krishna |
| marketing | Janvi |
| sales | Janvi |
| devloping | Janvi |
| management | Janvi |
| sales | Janvi |
| devloping | Janvi |
| marketing | Jukky |
| marketing | Juki |
| marketing | Jumi |
| devloping | Jumi |
| devloping | Jumi |
| marketing | Umi |
| devloping | Umi |
| marketing | Umi |
| devloping | Umi |
| marketing | Umi |
| devloping | Umi |
| marketing | Umi |
```

Natural join:

Joining a table which have no primary key and reference key:

```
The construction of the right syntax to use near 'Delhi'),

-> city varian(45));

Query CK, 0 rows affected (0.94 sec)

mysql) insert into emploc

-> values(1', 'Rajkot'),

-> (1', 'Delhi'),

-> (1', 'Delhi'),

-> (2', 'Delhi'),

-> (3', 'Membai'),

-> (1', 'Membai'),

->
```