INSERT INTO dept VALUES (1, 'Administration', 120, 1), (2, 'Marketing', 150, 2), (3, 'Purchasing', 124, 3), (4, 'Human Resources', 100, 4), (5, 'Shipping IT', 149, 5), (6, 'Public Relations', 0, 6), (7, 'Sales', 99, 7), (8, 'Executive', 8, 8), (9, 'Finance', 9, 9),(10,'Accounting',10,10);

Query OK, 10 rows affected (0.05 sec)

Records: 10 Duplicates: 0 Warnings: 0

select\* from dept;

+---------------+------------------+------------+-------------+

| department\_id | department\_name | manager\_id | location\_id |

+---------------+------------------+------------+-------------+

| 1 | Administration | 120 | 1 |

| 2 | Marketing | 150 | 2 |

| 3 | Purchasing | 124 | 3 |

| 4 | Human Resources | 100 | 4 |

| 70 | Shipping IT | 149 | 5 |

| 60 | Public Relations | 0 | 6 |

| 80 | Sales | 99 | 7 |

| 110 | Executive | 8 | 8 |

| 50 | Finance | 9 | 9 |

| 90 | Accounting | 10 | 10 |

INSERT INTO loca VALUES

-> (1,'Gandhi Street', 192,'Toronto','Texas',1),

-> (2,'109 Street', 012,'Toronto','Texas',1),

-> (3,'I Street', 092,'Toronto','Texas',1),

-> (4,'Gai Street', 602,'Toronto','Texas',1),

-> (5,'Royal Street', 602,'London','California',2),

-> (6,'123 Street', 509,'Seattle','Washington',3),

-> (7,'Baker Street', 302,'Toronto','Ontario',4),

-> (8,'Instand Street', 109,'Oxford','Virginia',5),

-> (9,'Jonas Street', 321,'Oxford','Virginia',5),

-> (10,'Rand Street', 139,'Oxford','Virginia',5);

Query OK, 10 rows affected (0.06 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select\* from loca;

+-------------+----------------+-------------+---------+----------------+------------+

| location\_id | street\_address | postal\_code | city | stata\_province | country\_id |

+-------------+----------------+-------------+---------+----------------+------------+

| 1 | Gandhi Street | 192 | Toronto | Texas | 1 |

| 2 | 109 Street | 12 | Toronto | Texas | 1 |

| 3 | I Street | 92 | Toronto | Texas | 1 |

| 4 | Gai Street | 602 | Toronto | Texas | 1 |

| 5 | Royal Street | 602 | London | California | 2 |

| 6 | 123 Street | 509 | Seattle | Washington | 3 |

| 7 | Baker Street | 302 | Toronto | Ontario | 4 |

| 8 | Instand Street | 109 | Oxford | Virginia | 5 |

| 9 | Jonas Street | 321 | Oxford | Virginia | 5 |

| 10 | Rand Street | 139 | Oxford | Virginia | 5 |

select\* from emp;

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| 100 | steven | king | sking | 98978659 | 2003-05-12 | ad\_pres | 0.00 | 0 | 90 | 24000 |

| 101 | peter | matos | abcd | 5624879 | 2004-06-15 | ad\_vp | 0.00 | 120 | 50 | 22000 |

| 148 | kaushik | sam | sdjcnsd | 957483 | 2015-06-25 | ad\_pres | 0.00 | 124 | 110 | 28000 |

| 150 | ram | sreevath | audqanxd | 89154151 | 2017-05-25 | ad\_vp | 0.00 | 120 | 80 | 33000 |

| 154 | adarsh | yeshwanth | matuh | 258946 | 2017-06-25 | ad\_vp | 0.00 | 100 | 60 | 48000 |

| 156 | aswin | babu | fghdb | 254698 | 2009-06-25 | it\_prog | 0.00 | 100 | 90 | 35000 |

| 163 | preetham | krishna | ancdh | 5248639 | 2000-06-15 | it\_prog | 0.00 | 150 | 80 | 22000 |

| 168 | yogesh | kumar | abcd | 958474 | 2008-06-25 | it\_prog | 0.00 | 100 | 90 | 35000 |

| 189 | john | samuel | scsnk | 37489 | 2014-06-25 | ad\_pres | 0.00 | 124 | 110 | 28000 |

| 200 | amith | ravi | svsvs | 3858530 | 2012-05-28 | st\_man | 0.00 | 150 | 60 | 30000 |

1.)select first\_name, last\_name from emp where salary> (select salary from emp where employee\_id=163);

+------------+-----------+

| first\_name | last\_name |

+------------+-----------+

| steven | king |

| kaushik | sam |

| ram | sreevath |

| adarsh | yeshwanth |

| aswin | babu |

| yogesh | kumar |

| john | samuel |

| amith | ravi |

2.)select first\_name, last\_name,salary,department\_id,job\_id from emp where job\_id like (select job\_id from emp where employee\_id= 168);

+------------+-----------+--------+---------------+---------+

| first\_name | last\_name | salary | department\_id | job\_id |

+------------+-----------+--------+---------------+---------+

| aswin | babu | 35000 | 90 | it\_prog |

| preetham | krishna | 22000 | 80 | it\_prog |

| yogesh | kumar | 35000 | 90 | it\_prog |

3.)select first\_name, last\_name,salary,department\_id from emp where salary = (select min(salary) from emp);

+------------+-----------+--------+---------------+

| first\_name | last\_name | salary | department\_id |

+------------+-----------+--------+---------------+

| peter | matos | 22000 | 50 |

| preetham | krishna | 22000 | 80 |

4.)select employee\_id,first\_name,last\_name from emp where salary > (select avg(salary) from emp);

+-------------+------------+-----------+

| employee\_id | first\_name | last\_name |

+-------------+------------+-----------+

| 150 | ram | sreevath |

| 154 | adarsh | yeshwanth |

| 156 | aswin | babu |

| 168 | yogesh | kumar |

5.)select first\_name,last\_name,employee\_id,salary from emp where manager\_id= (select employee\_id from emp where first\_name like 'arun');

+------------+-----------+-------------+--------+

| first\_name | last\_name | employee\_id | salary |

+------------+-----------+-------------+--------+

| peter | matos | 101 | 22000 |

| ram | sreevath | 150 | 33000 |

6.)select emp.department\_id, first\_name,last\_name,job\_id,department\_name from emp , dept where emp.department\_id= dept.department\_id and department\_name ='Finance';

+---------------+------------+-----------+--------+-----------------+

| department\_id | first\_name | last\_name | job\_id | department\_name |

+---------------+------------+-----------+--------+-----------------+

| 50 | peter | matos | ad\_vp | Finance |

7.)select \* from emp where(salary,manager\_id)=(select 3000,121);

Empty set (0.00 sec)

8.)select \* from emp where employee\_id in (134,168,189);

+-------------+------------+-----------+-------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+-------+--------------+------------+---------+----------------+------------+---------------+--------+

| 168 | yogesh | kumar | abcd | 958474 | 2008-06-25 | it\_prog | 0.00 | 100 | 90 | 35000 |

| 189 | john | samuel | scsnk | 37489 | 2014-06-25 | ad\_pres | 0.00 | 124 | 110 | 28000 |

9.)select \* from emp where salary between 1000 and 3000;

Empty set (0.00 sec)

10.) select \* from emp where salary between (select min(salary) from emp) and 25000;

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| 100 | steven | king | sking | 98978659 | 2003-05-12 | ad\_pres | 0.00 | 0 | 90 | 24000 |

| 101 | peter | matos | abcd | 5624879 | 2004-06-15 | ad\_vp | 0.00 | 120 | 50 | 22000 |

| 120 | arun | arum | svsvsvvs | 465666 | 2008-05-09 | it\_prog | 0.00 | 85 | 90 | 21000 |

| 163 | preetham | krishna | ancdh | 5248639 | 2000-06-15 | it\_prog | 0.00 | 150 | 80 | 22000 |

11.)select \* from emp where manager\_id not in (select manager\_id from emp where manager\_id between 100 and 200);

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| 100 | steven | king | sking | 98978659 | 2003-05-12 | ad\_pres | 0.00 | 0 | 90 | 24000 |

| 120 | arun | arum | svsvsvvs | 465666 | 2008-05-09 | it\_prog | 0.00 | 85 | 90 | 21000 |

12.)select \* from emp where salary in (select max(salary) from emp where salary not in(select max(salary) from emp));

+-------------+------------+-----------+-------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+-------+--------------+------------+---------+----------------+------------+---------------+--------+

| 156 | aswin | babu | fghdb | 254698 | 2009-06-25 | it\_prog | 0.00 | 100 | 90 | 35000 |

| 168 | yogesh | kumar | abcd | 958474 | 2008-06-25 | it\_prog | 0.00 | 100 | 90 | 35000 |

13.)

select first\_name,last\_name, hire\_date from emp where department\_id = (select department\_id from emp where first\_name = 'steven') and first\_name!="steven";

+------------+-----------+------------+

| first\_name | last\_name | hire\_date |

+------------+-----------+------------+

| arun | arum | 2008-05-09 |

| aswin | babu | 2009-06-25 |

| yogesh | kumar | 2008-06-25 |

14.)select first\_name, last\_name, employee\_id from emp where ('first\_name','last\_name') = ( '%t%','%t%');

Empty set (0.00 sec)

15.)select employee\_id, first\_name, last\_name, salary from emp where salary > (select avg(salary) from emp ) and employee\_id in (select employee\_id from emp where first\_name like '%a%' or last\_name like '%a%');

+-------------+------------+-----------+--------+

| employee\_id | first\_name | last\_name | salary |

+-------------+------------+-----------+--------+

| 150 | ram | sreevath | 33000 |

| 154 | adarsh | yeshwanth | 48000 |

| 156 | aswin | babu | 35000 |

| 168 | yogesh | kumar | 35000 |

| 200 | amith | ravi | 30000 |

16.) select first\_name, last\_name, (employee\_id),job\_id from emp where department\_id in (select dept.department\_id from dept, loca where dept.location\_id= loca.location\_id and city='Toronto');

+------------+-----------+-------------+---------+

| first\_name | last\_name | employee\_id | job\_id |

+------------+-----------+-------------+---------+

| ram | sreevath | 150 | ad\_vp |

| preetham | krishna | 163 | it\_prog |

17.)select first\_name, last\_name, (employee\_id),job\_id from emp where salary < any(select salary from emp where job\_id ='it\_prog');

+------------+-----------+-------------+---------+

| first\_name | last\_name | employee\_id | job\_id |

+------------+-----------+-------------+---------+

| steven | king | 100 | ad\_pres |

| peter | matos | 101 | ad\_vp |

| arun | arum | 120 | it\_prog |

| kaushik | sam | 148 | ad\_pres |

| ram | sreevath | 150 | ad\_vp |

| preetham | krishna | 163 | it\_prog |

| john | samuel | 189 | ad\_pres |

| amith | ravi | 200 | st\_man |

18.)select employee\_id,first\_name,last\_name,job\_id from emp where salary<any(select salary from emp where job\_id='it\_prog') and job\_id != 'it\_prog';

+-------------+------------+-----------+---------+

| employee\_id | first\_name | last\_name | job\_id |

+-------------+------------+-----------+---------+

| 100 | steven | king | ad\_pres |

| 101 | peter | matos | ad\_vp |

| 148 | kaushik | sam | ad\_pres |

| 150 | ram | sreevath | ad\_vp |

| 189 | john | samuel | ad\_pres |

| 200 | amith | ravi | st\_man |

19.)select employee\_id,first\_name,last\_name,job\_id from emp where salary>any(select salary from emp where job\_id='it\_prog') and job\_id != 'it\_prog';

+-------------+------------+-----------+---------+

| employee\_id | first\_name | last\_name | job\_id |

+-------------+------------+-----------+---------+

| 100 | steven | king | ad\_pres |

| 101 | peter | matos | ad\_vp |

| 148 | kaushik | sam | ad\_pres |

| 150 | ram | sreevath | ad\_vp |

| 154 | adarsh | yeshwanth | ad\_vp |

| 189 | john | samuel | ad\_pres |

| 200 | amith | ravi | st\_man |

20.)select employee\_id,first\_name,last\_name,job\_id from emp where salary > all(select avg(salary) from emp);

+-------------+------------+-----------+---------+

| employee\_id | first\_name | last\_name | job\_id |

+-------------+------------+-----------+---------+

| 150 | ram | sreevath | ad\_vp |

| 154 | adarsh | yeshwanth | ad\_vp |

| 156 | aswin | babu | it\_prog |

| 168 | yogesh | kumar | it\_prog |

| 200 | amith | ravi | st\_man |

21.)select employee\_id, first\_name , salary  from EMP where salary = ( select min(distinct salary) from EMP where salary > ( select min(distinct salary) from EMP));

-------------+------------+--------+

| employee\_id | first\_name | salary |

+-------------+------------+--------+

| 101 | peter | 22000 |

| 163 | preetham | 22000 |

22.)select l.city from loca l , emp e , dept d where e.employee\_id = 134 and e.department\_id = d.department\_id and d.location\_id = l.location\_id;

Empty set (0.00 sec)

23.)select e.first\_name , e.last\_name , e.salary , e.department\_id from emp e , dept d , loca l where l.city = "London" and l.location\_id = d.location\_id and d.department\_id = e.department\_id;

24.) select first\_name ,last\_name , salary , department\_id from emp where salary > ( select avg(salary) from emp) order by salary DESC;

+------------+-----------+--------+---------------+

| first\_name | last\_name | salary | department\_id |

+------------+-----------+--------+---------------+

| adarsh | yeshwanth | 48000 | 60 |

| aswin | babu | 35000 | 90 |

| yogesh | kumar | 35000 | 90 |

| ram | sreevath | 33000 | 80 |

| amith | ravi | 30000 | 60 |

25.) select \* from emp where exists (select \* from emp as e where emp.employee\_id=e.manager\_id);

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| employee\_id | first\_name | last\_name | email | phone\_number | hire\_date | job\_id | commission\_pct | manager\_id | department\_id | salary |

+-------------+------------+-----------+----------+--------------+------------+---------+----------------+------------+---------------+--------+

| 100 | steven | king | sking | 98978659 | 2003-05-12 | ad\_pres | 0.00 | 0 | 90 | 24000 |

| 120 | arun | arum | svsvsvvs | 465666 | 2008-05-09 | it\_prog | 0.00 | 85 | 90 | 21000 |

| 150 | ram | sreevath | audqanxd | 89154151 | 2017-05-25 | ad\_vp | 0.00 | 120 | 80 | 33000 |

26.)select e.first\_name,e.last\_name from emp e where salary>(select sum(salary)\*0.5 from emp where e.department\_id =emp.department\_id);

+------------+-----------+

| first\_name | last\_name |

+------------+-----------+

| peter | matos |

| ram | sreevath |

| adarsh | yeshwanth |

27.)select department\_name from dept where department\_id in (select distinct(department\_id) from emp);

+------------------+

| department\_name |

+------------------+

| Public Relations |

| Sales |

| Executive |

| Finance |

| Accounting |

28.)select first\_name, last\_name, department\_id from emp where exists (select \* from emp where salary >3700 );

+------------+-----------+---------------+

| first\_name | last\_name | department\_id |

+------------+-----------+---------------+

| steven | king | 90 |

| peter | matos | 50 |

| arun | arum | 90 |

| kaushik | sam | 110 |

| ram | sreevath | 80 |

| adarsh | yeshwanth | 60 |

| aswin | babu | 90 |

| preetham | krishna | 80 |

| yogesh | kumar | 90 |

| john | samuel | 110 |

| amith | ravi | 60 |

29.)select department\_id, department\_name from dept where not exists(select \* from emp where emp.department\_id = dept.department\_id);

+---------------+------------------+

| department\_id | department\_name |

+---------------+------------------+

| 1 | Administration |

| 2 | Marketing |

| 3 | Purchasing |

| 4 | Human Resources |

| 70 | Shipping IT |