**Relationship Queries:**

**CREATE NEW TABLE:**

mysql> create database dept;

Query OK, 1 row affected (0.01 sec)

mysql> use dept;

Database changed

mysql> create table dept(dno int primary key,dname varchar(100),loc varchar(100));

Query OK, 0 rows affected (0.05 sec)

mysql> desc dept;

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

| Field | Type | Null | Key | Default | Extra |

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

| dno | int | NO | PRI | NULL | |

| dname | varchar(100) | YES | | NULL | |

| loc | varchar(100) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> insert into dept(dno,dname,loc)values(101,'computer','pune'),(102,'computer science','mumbai'),(103,'quality','london');

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select\*from dept;

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

| dno | dname | loc |

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

| 101 | computer | pune |

| 102 | computer science | mumbai |

| 103 | quality | london |

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

3 rows in set (0.00 sec)

mysql> create table emploo(eno int primary key,ename varchar(50),designation varchar(100),salary int,date\_of\_joining varchar(50),dno int references dept

(dno));

Query OK, 0 rows affected (0.03 sec)

mysql> desc emploo;

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

| Field | Type | Null | Key | Default | Extra |

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

| eno | int | NO | PRI | NULL | |

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(100) | YES | | NULL | |

| salary | int | YES | | NULL | |

| date\_of\_joining | varchar(50) | YES | | NULL | |

| dno | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> insert into emploo(eno,ename,designation,salary,date\_of\_joining,dno)values(1, 'Suhani', 'assistant', 50000, '2020-01-01', 101),(2, 'Angha', 'CEO', 20000, '2020-02-01', 102),(3, 'Anuja', 'Manager', 90000, '2020-03-01', 103),(4, 'Vidya', 'Tester', 80000, '2020-04-01', 104);

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> select\*from emploo;

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

| eno | ename | designation | salary | date\_of\_joining | dno |

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

| 1 | Suhani | assistant | 50000 | 2020-01-01 | 101 |

| 2 | Angha | CEO | 20000 | 2020-02-01 | 102 |

| 3 | Anuja | Manager | 90000 | 2020-03-01 | 103 |

| 4 | Vidya | Tester | 80000 | 2020-04-01 | 104 |

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

4 rows in set (0.00 sec)

**Q 1. Add column Phone\_no into emp table with data type int.**

mysql> alter table emploo

-> add phone\_no int(11);

Query OK, 0 rows affected, 1 warning (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 1

mysql> desc emploo;

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

| Field | Type | Null | Key | Default | Extra |

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

| eno | int | NO | PRI | NULL | |

| ename | varchar(50) | YES | | NULL | |

| designation | varchar(100) | YES | | NULL | |

| salary | int | YES | | NULL | |

| date\_of\_joining | varchar(50) | YES | | NULL | |

| dno | int | YES | | NULL | |

| phone\_no | int | YES | | NULL | |

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

7 rows in set (0.00 sec)

**Q 2.Update Phone\_no.**

mysql> update emploo

-> set phone\_no=1234567890

-> where eno=1;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update emploo

-> set phone\_no=1234512345

-> where eno=2;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update emploo

-> set phone\_no=1234567890

-> where eno=3;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update emploo

-> set phone\_no=1234512345

-> where eno=4;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from emploo;

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

| eno | ename | designation | salary | date\_of\_joining | dno | phone\_no |

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

| 1 | Suhani | assistant | 50000 | 2020-01-01 | 101 | 1234567890 |

| 2 | Angha | CEO | 20000 | 2020-02-01 | 102 | 1234512345 |

| 3 | Anuja | Manager | 90000 | 2020-03-01 | 103 | 1234567890 |

| 4 | Vidya | Tester | 80000 | 2020-04-01 | 104 | 1234512345 |

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

4 rows in set (0.00 sec)

**Q 3. Delete the details of employee whose designation is manager.**

mysql> DELETE FROM emploo where designation='manager';

Query OK, 1 row affected (0.00 sec)

mysql> select\*from emploo;

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

| eno | ename | designation | salary | date\_of\_joining | dno | phone\_no |

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

| 1 | Suhani | assistant | 50000 | 2020-01-01 | 101 | 1234567890 |

| 2 | Angha | CEO | 20000 | 2020-02-01 | 102 | 1234512345 |

| 4 | Vidya | Tester | 80000 | 2020-04-01 | 104 | 1234512345 |

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

3 rows in set (0.00 sec)

**Q 4. Display the count of employee department wise.**

mysql> select count(eno),dname

-> from emploo,dept

-> where emploo.dno=dept.dno

-> group by dname;

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

| count(eno) | dname |

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

| 1 | computer |

| 1 | computer science |

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

2 rows in set (0.00 sec)

**Q 5. Display the name of employee who is ‘CEO’ of ‘account ‘Computer Science’.**

mysql> select ename,dname

-> from emploo,dept

-> where emploo.dno=dept.dno and designation='ceo'and dname='computer science';

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

| ename | dname |

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

| Angha | computer science |

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

1 row in set (0.00 sec)

**Q 6. Display the name of department whose location is ‘pune’ of suhani is working it.**

mysql> select ename,dname

-> from emploo,dept

-> where emploo.dno=dept.dno and loc='pune' and ename='suhani';

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

| ename | dname |

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

| Suhani | computer |

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

1 row in set (0.00 sec)

**Q 7. Display the names of employee whose salary is greater then 50000 and department is ’Quality’.**

mysql> select ename,dname

-> from emploo,dept

-> where emploo.dno=dept.dno and salary>50000 and dname='quality';

Empty set (0.00 sec)

**Q 8. Update date of joining of employee to’15/06/2019’ whose department is ‘computer science’and name is ‘angha’.**

mysql> update emploo set date\_of\_joining='2019-06-15'WHERE dno=(SELECT dno FROM dept WHERE dname='computer science')AND ename='angha';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from emploo;

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

| eno | ename | designation | salary | date\_of\_joining | dno | phone\_no |

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

| 1 | Suhani | assistant | 50000 | 2020-01-01 | 101 | 1234567890 |

| 2 | Angha | CEO | 20000 | 2019-06-15 | 102 | 1234512345 |

| 4 | Vidya | Tester | 80000 | 2020-04-01 | 104 | 1234512345 |

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

3 rows in set (0.00 sec)

**TASK:2**

**Create table sales:**

mysql> create database sales;

Query OK, 1 row affected (0.01 sec)

mysql> use sales;

Database changed

mysql> create table sales\_order(ordNo int,ordDate varchar(255),sales\_order int);

Query OK, 0 rows affected (0.04 sec)

mysql> desc sales\_order;

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

| Field | Type | Null | Key | Default | Extra |

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

| ordNo | int | YES | | NULL | |

| ordDate | varchar(255) | YES | | NULL | |

| sales\_order | int | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> alter table sales\_order add column sales\_amt int;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc sales\_order;

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

| Field | Type | Null | Key | Default | Extra |

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

| ordNo | int | YES | | NULL | |

| ordDate | varchar(255) | YES | | NULL | |

| sales\_order | int | YES | | NULL | |

| sales\_amt | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into sales\_order(ordNo,ordDate,sales\_order,sales\_amt)values(10

1,'2020-03-04',2,5000),(102,'2019-01-04',1,3000),(103,'2021-01-23',5,6000),(

104,'2019-06-04',2,1000),(105,'2024-01-04',3,1500),(106,'2022-11-04',6,6000)

,(107,'2019-01-07',4,3500),(108,'2019-09-04',3,3000);

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> select\*from sales\_order;

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

| ordNo | ordDate | sales\_order | sales\_amt |

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

| 101 | 2020-03-04 | 2 | 5000 |

| 102 | 2019-01-04 | 1 | 3000 |

| 103 | 2021-01-23 | 5 | 6000 |

| 104 | 2019-06-04 | 2 | 1000 |

| 105 | 2024-01-04 | 3 | 1500 |

| 106 | 2022-11-04 | 6 | 6000 |

| 107 | 2019-01-07 | 4 | 3500 |

| 108 | 2019-09-04 | 3 | 3000 |

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

8 rows in set (0.00 sec)

**Create table client-**

mysql> create table client(clientNo int primary key,clientName varchar(100),

Addr varchar(100));

Query OK, 0 rows affected (0.04 sec)

mysql> desc client;

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

| Field | Type | Null | Key | Default | Extra |

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

| clientNo | int | NO | PRI | NULL | |

| clientName | varchar(100) | YES | | NULL | |

| Addr | varchar(100) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into client(clientNo,clientName,Addr)values(101,'Anuu','pune')

,(102,'Anushka','satara'),(103,'radha','londan'),(104,'Aishu','thane'),(105,

'neha','sangli'),(106,'komal','pune'),(107,'swara','dahiwadi'),(108,'shreya','nashik');

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> select\*from client;

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

| clientNo | clientName | Addr |

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

| 101 | Anuu | pune |

| 102 | Anushka | satara |

| 103 | radha | londan |

| 104 | Aishu | thane |

| 105 | neha | sangli |

| 106 | komal | pune |

| 107 | swara | dahiwadi |

| 108 | shreya | nashik |

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

8 rows in set (0.00 sec)

**1.Add column amount into sales\_order table with data tyape int.**

mysql> alter table sales\_order add column sales\_amt int;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc sales\_order;

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

| Field | Type | Null | Key | Default | Extra |

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

| ordNo | int | YES | | NULL | |

| ordDate | varchar(255) | YES | | NULL | |

| sales\_order | int | YES | | NULL | |

| sales\_amt | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

**2.Delete the details of the clients whoses start with ‘A’ character.**

mysql> delete from client

-> where clientName like 'A%';

Query OK, 3 rows affected (0.01 sec)

mysql> select\*from client;

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

| clientNo | clientName | Addr |

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

| 103 | radha | londan |

| 105 | neha | sangli |

| 106 | komal | pune |

| 107 | swara | dahiwadi |

| 108 | shreya | nashik |

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

5 rows in set (0.00 sec)

**Task:3**

mysql> use hospital;

Database changed

mysql> desc hospital;

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

| Field | Type | Null | Key | Default | Extra |

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

| hno | int | NO | PRI | NULL | |

| hname | varchar(255) | YES | | NULL | |

| city | varchar(50) | YES | | NULL | |

| Est\_year | int | YES | | NULL | |

| address | varchar(255) | YES | | NULL | |

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

5 rows in set (0.01 sec)

mysql> select\*from hospital;

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

| hno | hname | city | Est\_year | address |

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

| 101 | krishna | satara | 2000 | vaduj |

| 102 | BJ katkar | sangali | 1990 | dahiwadi |

| 103 | pol | satara | 2003 | dahiwadi |

| 104 | sanjivan | pune | 2012 | katrkhatav |

| 105 | bharti | pune | 1890 | dhankawdi |

| 106 | shinde | beed | 2009 | thane |

| 107 | kaji | solapur | 2023 | karad |

| 108 | dhiru | mumbai | 1967 | vasai |

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

8 rows in set (0.00 sec)

mysql> desc doct;

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

| Field | Type | Null | Key | Default | Extra |

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

| dno | int | NO | PRI | NULL | |

| dname | varchar(100) | YES | | NULL | |

| addr | varchar(355) | YES | | NULL | |

| speciality | varchar(255) | YES | | NULL | |

| salary | int | YES | | NULL | |

| hno | int | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> insert into doc values(1,'vedant','satara','teeth',70000,101);

ERROR 1062 (23000): Duplicate entry '1' for key 'doc.PRIMARY'

mysql> insert into doct values(1,'vedant','satara','teeth',70000,101);

Query OK, 1 row affected (0.01 sec)

mysql> insert into doct values(2,'vedika','pune','eyes',50000,102);

Query OK, 1 row affected (0.01 sec)

mysql> insert into doct values(3,'shubham','solaphour','skin',90000,103);

Query OK, 1 row affected (0.01 sec)

mysql> insert into doct values(4,'amit','thane','airs',55000,104);

Query OK, 1 row affected (0.01 sec)

mysql> insert into doct values(5,'tejas','mumbai','bone',87000,105);

Query OK, 1 row affected (0.01 sec)

mysql> insert into doct values(6,'nitish','pune','heart',99000,106);

Query OK, 1 row affected (0.01 sec)

mysql> select\*from doct;

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

| dno | dname | addr | speciality | salary | hno |

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

| 1 | vedant | satara | teeth | 70000 | 101 |

| 2 | vedika | pune | eyes | 50000 | 102 |

| 3 | shubham | solaphour | skin | 90000 | 103 |

| 4 | amit | thane | airs | 55000 | 104 |

| 5 | tejas | mumbai | bone | 87000 | 105 |

| 6 | nitish | pune | heart | 99000 | 106 |

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

6 rows in set (0.00 sec)

**Q 1.Delete Add column from Hospital table.**

mysql> alter table hospital drop address;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select\*from hospital;

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

| hno | hname | city | Est\_year |

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

| 101 | krishna | satara | 2000 |

| 102 | BJ katkar | sangali | 1990 |

| 103 | pol | satara | 2003 |

| 104 | sanjivan | pune | 2012 |

| 105 | bharti | pune | 1890 |

| 106 | shinde | beed | 2009 |

| 107 | kaji | solapur | 2023 |

| 108 | dhiru | mumbai | 1967 |

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

8 rows in set (0.00 sec)

**Q 2.Display Doctor name, hospital name and speacilty of doctors from “pune city”.**

mysql> select dname,hname,speciality

-> from doct,hospital

-> where city='pune'and addr='mumbai';

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

| dname | hname | speciality |

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

| tejas | bharti | bone |

| tejas | sanjivan | bone |

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

2 rows in set (0.00 sec)

**Q 3. Display the names of the hospitals which are located at ‘pune’ city.**

mysql> select hname

-> from hospital

-> where city='beed';

+--------+

| hname |

+--------+

| shinde |

+--------+

1 row in set (0.00 sec)

**Q 5.Display the speacility of the doctors who working in ‘mumbai’ hospital.**

mysql> select dname

-> from doct

-> where addr='solaphour'and dname='shubham';

+---------+

| dname |

+---------+

| shubham |

+---------+

1 row in set (0.00 sec)

mysql> select speciality

-> from doct

-> where addr='mumbai';

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

| speciality |

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

| bone |

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

1 row in set (0.00 sec)

**Q 6. Give the count of doctor’s hospital wise which are located at ’ Mumbai’.**

mysql> select count(\*)hno

-> from doct,hospital

-> where hospital.hno=doct.hno and addr='mumbai'group by hname;

+-----+

| hno |

+-----+

| 1 |

+-----+

1 row in set (0.00 sec)

**Q 7. Update an address of doctor to “ Amit“ whose hospital is” Pimpari “.**

mysql> update doct

-> set addr='pimpari'

-> where dname='amit';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from doct;

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

| dno | dname | addr | speciality | salary | hno |

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

| 1 | vedant | satara | teeth | 70000 | 101 |

| 2 | vedika | pune | eyes | 50000 | 102 |

| 3 | shubham | solaphour | skin | 90000 | 103 |

| 4 | amit | pimpari | airs | 55000 | 104 |

| 5 | tejas | mumbai | bone | 87000 | 105 |

| 6 | nitish | pune | heart | 99000 | 106 |

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

6 rows in set (0.00 sec)

**Q 8. Display doctor details whose speaciality is skin and whole belong to hospital from Solapur**.

mysql> select\*

-> from doct

-> where speciality='skin' and addr='solaphour';

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

| dno | dname | addr | speciality | salary | hno |

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

| 3 | shubham | solaphour | skin | 90000 | 103 |

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

1 row in set (0.00 sec)

**Q 9. Update an address of hospital ‘dubai’ whose hospital is established in 2000.**

mysql> update hospital

-> set city='dubai'

-> where Est\_year=2000;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select\*from hospital;

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

| hno | hname | city | Est\_year |

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

| 101 | krishna | dubai | 2000 |

| 102 | BJ katkar | sangali | 1990 |

| 103 | pol | satara | 2003 |

| 104 | sanjivan | pune | 2012 |

| 105 | bharti | pune | 1890 |

| 106 | shinde | beed | 2009 |

| 107 | kaji | solapur | 2023 |

| 108 | dhiru | mumbai | 1967 |

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

8 rows in set (0.00 sec)

**Q 10. Display Total salary of all doctors hospitalwise.**

mysql> select salary

-> from hospital,doct;

+--------+

| salary |

+--------+

| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

| 99000 |

| 87000 |

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| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

| 99000 |

| 87000 |

| 55000 |

| 90000 |

| 50000 |

| 70000 |

+--------+

48 rows in set (0.00 sec)

**Q 11. Display annual salary of doctor who live in pune.**

mysql> select salary\*12 AS annua\_salary from doct;

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

| annua\_salary |

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

| 840000 |

| 600000 |

| 1080000 |

| 660000 |

| 1044000 |

| 1188000 |

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

6 rows in set (0.00 sec)

**Task:4**

mysql> use project;

Database changed

mysql> create table project(pno int primary key,pname varchar(255) not null,start\_date varchar(255),budget int,status varchar(50),dno int);

Query OK, 0 rows affected (0.04 sec)

mysql> desc project;

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

| Field | Type | Null | Key | Default | Extra |

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

| pno | int | NO | PRI | NULL | |

| pname | varchar(255) | NO | | NULL | |

| start\_date | varchar(255) | YES | | NULL | |

| budget | int | YES | | NULL | |

| status | varchar(50) | YES | | NULL | |

| dno | int | YES | | NULL | |

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

6 rows in set (0.01 sec)

mysql> insert into project values(1,'dry fruit system','04-10-2022',3000,'c',101);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(2,'event management','21-10-2021',1000,'p',102);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(3,'food system','04-09-2017',6000,'i',103);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(4,'restaurant management','09-09-2023',1500,'p',104);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(5,'car shoroom','05-10-2022',5000,'c',105);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(6,'fruit shop','04-07-2016',4000,'i',106);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(7,'nurcery system','07-07-2022',7000,'c',107);

Query OK, 1 row affected (0.01 sec)

mysql> insert into project values(8,'room management','04-10-2000',9000,'p',108);

Query OK, 1 row affected (0.01 sec)

mysql> select\*from project;

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

| pno | pname | start\_date | budget | status | dno |

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

| 1 | dry fruit system | 04-10-2022 | 3000 | c | 101 |

| 2 | event management | 21-10-2021 | 1000 | p | 102 |

| 3 | food system | 04-09-2017 | 6000 | i | 103 |

| 4 | restaurant management | 09-09-2023 | 1500 | p | 104 |

| 5 | car shoroom | 05-10-2022 | 5000 | c | 105 |

| 6 | fruit shop | 04-07-2016 | 4000 | i | 106 |

| 7 | nurcery system | 07-07-2022 | 7000 | c | 107 |

| 8 | room management | 04-10-2000 | 9000 | p | 108 |

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

8 rows in set (0.00 sec)

mysql> create table department(dno int primary key,dname varchar(50),hod varchar(50),loc varchar(255));

Query OK, 0 rows affected (0.04 sec)

mysql> desc department;

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

| Field | Type | Null | Key | Default | Extra |

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

| dno | int | NO | PRI | NULL | |

| dname | varchar(50) | YES | | NULL | |

| hod | varchar(50) | YES | | NULL | |

| loc | varchar(255) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into department values(101,'bca','shinde','dahiwadi');

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(102,'bcs','mane','mankarnwadi');

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(103,'mca','mohite','pune');

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(104,'mcs','jagadale','phaltan');

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(105,'msc','bhosle','rajwadi');

Query OK, 1 row affected (0.00 sec)

mysql> insert into department values(106,'bsc','bagal','vaduj');

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(107,'bvoc','kamble','karad');

Query OK, 1 row affected (0.01 sec)

mysql> select\*from department;

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

| dno | dname | hod | loc |

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

| 101 | bca | shinde | dahiwadi |

| 102 | bcs | mane | mankarnwadi |

| 103 | mca | mohite | pune |

| 104 | mcs | jagadale | phaltan |

| 105 | msc | bhosle | rajwadi |

| 106 | bsc | bagal | vaduj |

| 107 | bvoc | kamble | karad |

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

7 rows in set (0.00 sec)

**1)drop loc colmn from department table.**

mysql> alter table department

-> drop loc;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select\*from department;

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

| dno | dname | hod |

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

| 101 | bca | shinde |

| 102 | bcs | mane |

| 103 | mca | mohite |

| 104 | mcs | jagadale |

| 105 | msc | bhosle |

| 106 | bsc | bagal |

| 107 | bvoc | kamble |

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

7 rows in set (0.00 sec)

**2)Display the detail of project whose start\_date is before one month and status is=”progressive”.**

mysql> select\*

-> from project

-> where start\_date='09-09-2023' and status='p';

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

| pno | pname | start\_date | budget | status | dno |

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

| 4 | restaurant management | 09-09-2023 | 1500 | p | 104 |

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

1 row in set (0.00 sec)

mysql> select\*

-> from project

-> where start\_date>01-02-2019 and status='c';

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

| pno | pname | start\_date | budget | status | dno |

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

| 1 | dry fruit system | 04-10-2022 | 3000 | c | 101 |

| 5 | car shoroom | 05-10-2022 | 5000 | c | 105 |

| 7 | nurcery system | 07-07-2022 | 7000 | c | 107 |

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

3 rows in set, 3 warnings (0.01 sec)

**3)display the name of the project and department who are worked on project whose status is completed.**

mysql> select pname,dname

-> from project,department

-> where project.dno=department.dno AND status='c';

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

| pname | dname |

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

| dry fruit system | bca |

| car shoroom | msc |

| nurcery system | bvoc |

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

3 rows in set (0.00 sec)

**4)display total budget of each department.**

mysql> select sum(budget)

-> from project,department

-> where project.dno=department.dno group by dname;

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

| sum(budget) |

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

| 3000 |

| 1000 |

| 6000 |

| 1500 |

| 5000 |

| 4000 |

| 7000 |

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

7 rows in set (0.00 sec)

**5)display incomplete of each department.**

mysql> select\*

-> from project

-> where status='i';

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

| pno | pname | start\_date | budget | status | dno |

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

| 3 | food system | 04-09-2017 | 6000 | i | 103 |

| 6 | fruit shop | 04-07-2016 | 4000 | i | 106 |

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

2 rows in set (0.00 sec)

**6)display all project working under”fruit shop”.**

mysql> select pname

-> from project,department

-> where project.dno=department.dno and pname='fruit shop';

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

| pname |

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

| fruit shop |

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

1 row in set (0.00 sec)

**7)display department wise hod.**

mysql> select hod,dname

-> from department

-> GROUP BY hod,dname;

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

| hod | dname |

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

| shinde | bca |

| mane | bcs |

| mohite | mca |

| jagadale | mcs |

| bhosle | msc |

| bagal | bsc |

| kamble | bvoc |

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

7 rows in set (0.00 sec)

**8)display project detail where project name start with R and whose budget is >1000 in descending order.**

mysql> select\*

-> from project

-> where pname LIKE'r%' AND budget>1000 ORDER BY budget desc;

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

| pno | pname | start\_date | budget | status | dno |

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

| 8 | room management | 04-10-2000 | 9000 | p | 108 |

| 4 | restaurant management | 09-09-2023 | 1500 | p | 104 |

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

2 rows in set (0.00 sec)

**9)display the project detail whose having highest budget.**

mysql> select\*

-> from project

-> where budget=(select max(budget)from project);

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

| pno | pname | start\_date | budget | status | dno |

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

| 8 | room management | 04-10-2000 | 9000 | p | 108 |

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

1 row in set (0.00 sec)

**Task:5**

**Many To Many**

mysql> create database customer;

Query OK, 1 row affected (0.01 sec)

mysql> use customer;

Database changed

mysql> create table customer(cust\_no int primary key,cust\_name varchar(255),

address varchar(255),city varchar(255));

Query OK, 0 rows affected (0.04 sec)

mysql> desc customer;

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

| Field | Type | Null | Key | Default | Extra |

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

| cust\_no | int | NO | PRI | NULL | |

| cust\_name | varchar(255) | YES | | NULL | |

| address | varchar(255) | YES | | NULL | |

| city | varchar(255) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into customer values(1,'vidhya','xyz','pune'),(2,'pranita','mankarnwadi','satara'),(3,'anuu','dahiwadi','satara'),(4,'aishu','balaji nagar','pune'),(5,'neha','dadar','mumbai');

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select\*from customer;

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

| cust\_no | cust\_name | address | city |

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

| 1 | vidhya | xyz | pune |

| 2 | pranita | mankarnwadi | satara |

| 3 | anuu | dahiwadi | satara |

| 4 | aishu | balaji nagar | pune |

| 5 | neha | dadar | mumbai |

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

5 rows in set (0.00 sec)

mysql> create table loan(loan\_no int primary key,loan\_amt int);

Query OK, 0 rows affected (0.03 sec)

mysql> desc loan;

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

| Field | Type | Null | Key | Default | Extra |

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

| loan\_no | int | NO | PRI | NULL | |

| loan\_amt | int | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> insert into loan values(101,50000),(102,6000),(103,30000),(104,4000),

(105,70000);

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select\*from loan;

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

| loan\_no | loan\_amt |

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

| 101 | 50000 |

| 102 | 6000 |

| 103 | 30000 |

| 104 | 4000 |

| 105 | 70000 |

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

5 rows in set (0.00 sec)

mysql> create table cust\_loan(cust\_no int references customer(cust\_no),loan\_

no int references loan(loan\_no),loan\_status varchar(255));

Query OK, 0 rows affected (0.03 sec)

mysql> desc cust\_loan;

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

| Field | Type | Null | Key | Default | Extra |

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

| cust\_no | int | YES | | NULL | |

| loan\_no | int | YES | | NULL | |

| loan\_status | varchar(255) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into cust\_loan values(1,101,'completed'),(2,102,'process'),(3,

103,'imcompleted'),(4,104,'process'),(5,105,'completed');

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select\*from cust\_loan;

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

| cust\_no | loan\_no | loan\_status |

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

| 1 | 101 | completed |

| 2 | 102 | process |

| 3 | 103 | imcompleted |

| 4 | 104 | process |

| 5 | 105 | completed |

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

5 rows in set (0.00 sec)

**1)select the details of customer whose loan\_amt<10000**

mysql> select cust\_name,address,city

-> from customer,loan,cust\_loan

-> where customer.cust\_no=cust\_loan.cust\_no and loan.loan\_no=cust\_loan.l

oan\_no and loan\_amt<10000;

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

| cust\_name | address | city |

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

| pranita | mankarnwadi | satara |

| aishu | balaji nagar | pune |

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

2 rows in set (0.00 sec)

**2)list all customer whose name start with D character.**

mysql> select\*

-> from customer ,cust\_loan

-> where customer.cust\_no=cust\_loan.cust\_no and cust\_name like'a%';

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

| cust\_no | cust\_name | address | city | cust\_no | loan\_no | loan\_status |

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

| 3 | anuu | dahiwadi | satara | 3 | 103 | imcompleted |

| 4 | aishu | balaji nagar | pune | 4 | 104 | process |

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

2 rows in set (0.00 sec)