TASK-1

1) Create a database with name entry.

```
mysql>
mysql> create database Entri;
Query OK, 1 row affected (0.01 sec)
mysql>
mysql>
mysql> use Entri;
Database changed
mysql>
```

2) Create a table student with columns id pri mary key auto increment, first_name not null, last_name.

```
mysql>
mysql> create table Student
    -> (Id int primary key auto_increment,
    -> First_name varchar(20) not null,
    -> Last_name varchar(20));
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql>
mysql> describe Student;
 Field
                            Null | Kev | Default
              Type
                             NO
                                           NULL
                                                     auto_increment
  Id
               int
                                    PRI
 First_name
               varchar(20)
                             NO
                                           NULL
               varchar(20)
                             YES
                                           NULL
  Last_name
3 rows in set (0.00 sec)
```

3) Alter table and add column age and dept.

```
mysql>
mysql> alter table Student
    -> add ( Department varchar(10) not null,
    -> Age tinyint not null);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> describe Student;
  Field
               Type
                              Null
                                     Key | Default | Extra
  Ιd
                                           NULL
               int
                                                      auto_increment
  First_name
               varchar(20)
                              NO
                                           NULL
               varchar(20)
                              YES
                                           NULL
  Last_name
  Department
               varchar(10)
                              NO
                                           NULL
  Age
               tinyint
                              NO
                                           NULL
5 rows in set (0.00 sec)
mysql>
```

4) Insert values (Maria, Gloria, CS, 22), (John, Smith, IT, 23), (Gal, Rao, CS, 22), (Jakey, Smith, EC, 24), (Rama, Saho, IT, 22), (Maria, Gaga, EC, 23).

```
mysql>
mysql>
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Maria','Gloria','CS',22);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Jhon','Smith','IT',23);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Gal','Rao','CS',22);
Query OK, 1 row affected (0.00 sec)
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Jakey','Smith','EC',24);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Rama','Saho','IT',22);
Query OK, 1 row affected (0.01 sec)
mysql> insert into Student (First_name,Last_name,Department,Age)
    -> values('Maria','Gaga','EC',23);
Query OK, 1 row affected (0.01 sec)
```

5) Sel ect all items instudent table

```
mysql>
mysql> select *
    -> from Student;
 Id
       First_name | Last_name
                                  Department
                                                 Age
       Maria
                     Gloria
                                  CS
                                                   22
   2
                     Smith
                                   IT
       Jhon
                                                   23
   3
       Gal
                                   CS
                     Rao
                                                   22
       Jakey
                     Smith
                                   EC
                                                   24
   5
       Rama
                      Saho
                                   ΙT
                                                   22
   6
                                   EC
                                                   23
       Maria
                     Gaga
 rows in set (0.00 sec)
```

6) Select student names if last name = 'Smith'.

7) Order students with their depart ment desc and age asc

```
mysql> select *
    -> from Student
    -> order by Department desc, Age asc;
 Id | First_name | Last_name
                                 Department |
                                               Age
  5
                                 ΙT
                                                22
      Rama
                    Saho
  2
       Jhon
                    Smith
                                 ΙT
                                                23
                                                23
  6
      Maria
                    Gaga
                                 EC
  4
                                 EC
                                                24
       Jakey
                    Smith
                                 CS
                                                22
  1
      Maria
                    Gloria
       Gal
                    Rao
                                 CS
                                                22
 rows in set (0.00 sec)
```

8) Select students with age is grater than or equal to 23 and depart ment EC

```
mysql>
mysql> select *
   -> from Student
   -> where Age>='23' and Department='EC';
      First_name
                  Last_name
                              | Department |
                                            Age
      Jakey
                    Smith
                                EC
                                              24
  6 | Maria
                   Gaga
                                EC
                                              23
2 rows in set (0.00 sec)
```

9) Select students where depart ment CS or IT

```
mysql>
mysql> select *
    -> from Student
   -> where Department='CS' or Department='IT';
       First_name
                                Department
                   Last_name |
                    Gloria
                                CS
                                               22
      Maria
                    Smith
                                ΙT
                                               23
      Jhon
     Gal
                    Rao
                                CS
                                               22
     Rama
                    Saho
                                ΙT
                                               22
4 rows in set (0.00 sec)
```