Task-1

1.Create a database with name entry.

```
mysql> create database entri;
Query OK, 1 row affected (0.12 sec)

mysql>
mysql> use entri;
Database changed
mysql>
mysql>
```

2.Create a table student with columns id primary 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 (1.55 sec)

mysql>
mysql> describe Student;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| Id         | int         | NO   | PRI | NULL    | auto_increment |
| First_name | varchar(20) | NO   |     | NULL    |                |
| Last_name  | varchar(20) | YES  |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
3 rows in set (0.04 sec)
```

3. Alter table and add column age and dept .

```
mysql> alter table Student
    -> add(Age int not null,
    -> Department varchar(30) not null);
Query OK, 0 rows affected (0.32 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> describe Student;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| Id         | int         | NO   | PRI | NULL    | auto_increment |
| First_name | varchar(20) | NO   |     | NULL    |                |
| Last_name  | varchar(20) | YES  |     | NULL    |                |
| Age        | int         | NO   |     | NULL    |                |
| Department | varchar(30) | NO   |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
5 rows in set (0.00 sec)
```

4. Insert values (Maria, Gloria, CS, 22), (John, Smith,IT, 23),

(Gal, Rao, CS,22),(Jakey, Smith,EC,24).

```
mysql> insert into Student(First_name,Last_name,Department,Age)
    -> 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);
Query OK, 6 rows affected (0.13 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

5. Select all items in student table .

```
mysql> select * from Student;
+----+------------+-----------+-----+------------+
| Id | First_name | Last_name | Age | Department |
+----+------------+-----------+-----+------------+
|  1 | Maria      | Gloria    |  22 | CS         |
|  2 | John       | Smith     |  23 | IT         |
|  3 | Gal        | Rao       |  22 | CS         |
|  4 | Jakey      | Smith     |  24 | EC         |
|  5 | Rama       | Saho      |  22 | IT         |
|  6 | Maria      | Gaga      |  23 | EC         |
+----+------------+-----------+-----+------------+
6 rows in set (0.00 sec)
```

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

```
mysql> select First_name,Last_name
    -> from Student
    -> where Last_name='Smith';
+------------+-----------+
| First_name | Last_name |
+------------+-----------+
| John       | Smith     |
| Jakey      | Smith     |
+------------+-----------+
2 rows in set (0.05 sec)
```

7. Order students with their department desc and age asc .

```
mysql> select * from student
    -> order by Department desc, Age asc;
+----+------------+-----------+-----+------------+
| Id | First_name | Last_name | Age | Department |
+----+------------+-----------+-----+------------+
|  5 | Rama       | Saho      |  22 | IT         |
|  2 | John       | Smith     |  23 | IT         |
|  6 | Maria      | Gaga      |  23 | EC         |
|  4 | Jakey      | Smith     |  24 | EC         |
|  1 | Maria      | Gloria    |  22 | CS         |
|  3 | Gal        | Rao       |  22 | CS         |
+----+------------+-----------+-----+------------+
6 rows in set (0.03 sec)
```

8. Select students with age is grater than or equal to 23 and

department EC .

```
mysql> select * from student where Age >=23 and Department= 'EC'
    -> order by Age asc;
+----+------------+-----------+-----+------------+
| Id | First_name | Last_name | Age | Department |
+----+------------+-----------+-----+------------+
|  6 | Maria      | Gaga      |  23 | EC         |
|  4 | Jakey      | Smith     |  24 | EC         |
+----+------------+-----------+-----+------------+
2 rows in set (0.00 sec)
```

9. Select students where department CS or IT .

```
mysql> select * from student
    -> where Department= 'CS' or Department= 'IT';
+----+------------+-----------+-----+------------+
| Id | First_name | Last_name | Age | Department |
+----+------------+-----------+-----+------------+
|  1 | Maria      | Gloria    |  22 | CS         |
|  2 | John       | Smith     |  23 | IT         |
|  3 | Gal        | Rao       |  22 | CS         |
|  5 | Rama       | Saho      |  22 | IT         |
+----+------------+-----------+-----+------------+
4 rows in set (0.00 sec)
```