MYSQL TASK-1

1 Create a database with name entry

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```
mysql> create database  if not exists entry;
Query OK, 1 row affected, 1 warning (0.01 sec)

mysql> use entry;
Database changed
mysql>
```

2 Create a table student with columns id primary key auto increment, first_name not null, last_name;

```
mysql> create table student
    -> (id int primary key auto_increment,
    -> first_name varchar(30) not null,
    -> last_name varchar(30));
Query OK, 0 rows affected (0.07 sec)

mysql> describe student;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| id         | int         | NO   | PRI | NULL    | auto_increment |
| first_name | varchar(30) | NO   |     | NULL    |                |
| last_name  | varchar(30) | YES  |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)
```

3 Alter table and add column age and dept

```
mysql> alter table student
    -> add(Age int not null,Department varchar(15) not null);
Query OK, 0 rows affected (0.04 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(30) | NO   |     | NULL    |                |
| last_name  | varchar(30) | YES  |     | NULL    |                |
| Age        | int         | NO   |     | NULL    |                |
| Department | varchar(15) | 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), (Rama,Saho,IT,22),(Maria,Gaga,EC,23)

```
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 (0.04 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select * from sudent;
ERROR 1146 (42S02): Table 'entry.sudent' doesn't exist
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)
```

5. Select all items in student table

```
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 (0.27 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select * from student;
+----+------------+-----------+------------+------+
| id | first_name | last_name | department | age  |
+----+------------+-----------+------------+------+
|  1 | Maria      | Gloria    | CS         |  22  |
|  2 | John       | Smith     | IT         |  23  |
|  3 | Gal        | Rao       | CS         |  22  |
|  4 | Jakey      | Smith     | EC         |  24  |
|  5 | Rama       | Saho      | IT         |  22  |
|  6 | Maria      | Gaga      | EC         |  23  |
+----+------------+-----------+------------+------+
6 rows in set (0.05 sec)
```

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

```
mysql> SELECT first_name,last_name,age FROM student WHERE last_name='Smith';
+------------+-----------+------+
| first_name | last_name | age  |
+------------+-----------+------+
| John       | Smith     |   23 |
| Jakey      | Smith     |   24 |
+------------+-----------+------+
2 rows in set (0.05 sec)

mysql>
```

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 | department | age  |
+----+------------+-----------+------------+------+
|  5 | Rama       | Saho      | IT         |   22 |
|  2 | John       | Smith     | IT         |   23 |
|  6 | Maria      | Gaga      | EC         |   23 |
|  4 | Jakey      | Smith     | EC         |   24 |
|  1 | Maria      | Gloria    | CS         |   22 |
|  3 | Gal        | Rao       | CS         |   22 |
+----+------------+-----------+------------+------+
6 rows in set (0.04 sec)

mysql>
```

8. Select students with age is greater than or equal to 23 and department EC

```
mysql> SELECT * FROM student
    -> WHERE age>=23 AND department='EC';
+----+------------+-----------+------------+------+
| id | first_name | last_name | department | age  |
+----+------------+-----------+------------+------+
|  4 | Jakey      | Smith     | EC         |   24 |
|  6 | Maria      | Gaga      | EC         |   23 |
+----+------------+-----------+------------+------+
2 rows in set (0.04 sec)

mysql>
```

9. Select students where department CS or IT

```
mysql> SELECT * FROM student
    -> WHERE department IN ('CS','IT');
+----+------------+-----------+------------+------+
| id | first_name | last_name | department | age  |
+----+------------+-----------+------------+------+
|  1 | Maria      | Gloria    | CS         |   22 |
|  2 | John       | Smith     | IT         |   23 |
|  3 | Gal        | Rao       | CS         |   22 |
|  5 | Rama       | Saho      | IT         |   22 |
+----+------------+-----------+------------+------+
4 rows in set (0.00 sec)

mysql>
```