

MySQL TASK -1

- Create a database with name entry

```
mysql> create database if not exists entry;
Query OK, 1 row affected (0.13 sec)

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

- 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 (1.38 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)
```

- Alter table and add column age and dept

```
mysql>
mysql>
mysql> alter table Student
  -> add (Age int not null, Department varchar(15) not null);
Query OK, 0 rows affected (0.47 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)

mysql>
```

- 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>
mysql>
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 (0.12 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql>
```

- Select all items in student table

```
mysql>
mysql>
mysql>
mysql>
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)

mysql>
```

- 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 (0.00 sec)

mysql>
```

- Order students with their department desc and age asc

```
mysql>
mysql>
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 (0.05 sec)

mysql>
mysql>
mysql>
```

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

```
mysql>
mysql>
mysql>
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)

mysql>
mysql>
mysql>
mysql>
```

- Select students where department CS or IT

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

mysql> _
```