

MySQL TASK 1

Create a database with name entry

```
mysql> \c
mysql> show databases;
+-----+
| Database |
+-----+
| entry    |
| information_schema |
| mysql    |
| performance_schema |
| sakila   |
| sys      |
| world    |
+-----+
7 rows in set (0.00 sec)

mysql> create database entry;
Query OK, 1 row affected (0.05 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| entry     |
| entry     |
| information_schema |
| mysql     |
| performance_schema |
| sakila    |
| sys       |
| world     |
+-----+
8 rows in set (0.00 sec)
```

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

```
mysql> create table student(student_id int primary key auto_increment,first_name varchar(50) not null,last_name varchar(50));
Query OK, 0 rows affected (2.29 sec)
```

Alter table and add column age and dept
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,dept,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> alter table student add column age int, add dept varchar(100);
Query OK, 0 rows affected (0.39 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| student_id | int | NO | PRI | NULL | auto_increment |
| first_name | varchar(50) | NO | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| age | int | YES | | NULL | |
| dept | varchar(100) | YES | | NULL | |
+-----+
5 rows in set (0.22 sec)
```

Select all items in student table

```
mysql> select * from student;
```

student_id	first_name	last_name	age	dept
1	Maria	Gloria	22	CS
2	John	Smith	23	IT
3	Gal	Rao	22	CS
4	Jakey	Smith	24	EC
5	Rana	Sahu	22	IT
6	Maria	Gaga	23	EC

```
6 rows in set (0.00 sec)
```

Select student names if last name = 'Smith'

```
Command Prompt - mysql -u root -p
mysql> select first_name,last_name,dept,age from student where last_name = 'smith';
```

first_name	last_name	dept	age
John	Smith	IT	23
Jakey	Smith	EC	24

```
2 rows in set (0.01 sec)
```

Order students with their department desc and age asc

```
mysql> select * from student order by dept desc , age asc;
```

student_id	first_name	last_name	age	dept
5	Rana	Sahu	22	IT
2	John	Smith	23	IT
6	Maria	Gaga	23	EC
4	Jakey	Smith	24	EC
3	Gal	Rao	22	CS
1	Maria	Gloria	22	CS

```
6 rows in set (0.04 sec)
```

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

```
Command Prompt - mysql -u root -p
mysql> select * from student where age >=23 and dept = 'EC' order by age;
```

student_id	first_name	last_name	age	dept
6	Maria	Gaga	23	EC
4	Jakey	Smith	24	EC

```
2 rows in set (0.03 sec)
```