

# **# MySQL commands**

## **# To create a new database**

create database college\_db20;

## **# To display the existing databases**

show databases;

## **# To select a particular database to work with**

use college\_db20;

## **# To list the tables in a database**

show tables;

## **# Create a table. Name of the table (relation) is instructor**

create table instructor (ID int, name varchar(25) not null, dept\_name varchar(15) not null, salary numeric (10,3), primary key (ID));

show tables;

## **# To describe the table**

desc instructor;

describe instructor;

## **# To add data in the database i.e. in the tables**

### **# i.e inserting record into the database**

insert into instructor values (100,'George', 'Computer', 110000 );

## **# To read (fetch) the data from table, use select statement. If we want to read data from all columns then use \***

select \* from instructor;

select name from instructor;

### **# To insert remaining records**

```
insert into instructor values (101,'Krishna', 'Computer', 95000 );
insert into instructor values (102,'Uday', 'IT', 105000 );
insert into instructor values (103,'Swapnil', 'ETC', 112000 );
insert into instructor values (104,'Soumitra', 'Mechanical', 115000 );
insert into instructor values (105,'Manas', 'ETC', 98000 );
insert into instructor values (106,'Pawan', 'Electrical', 106000 );
insert into instructor values (107,'Navin', 'Mechanical', 101000 );
insert into instructor values (108,'Devendra', 'ETC', 97000 );
insert into instructor values (109,'Parth', 'Electrical', 103000 );
insert into instructor values (110,'Nilesh', 'IT', 70000 );
```

```
select * from instructor;
```

### **# Try with following**

```
insert into instructor values (110,'Nilesh', 'IT', 70000 ); # Error ...see error message
insert into instructor values (111,'Nilofer', 'IT', 7000000000000000 ); # Error
```

### **# To apply unique key constraint. Create a new table student**

```
CREATE TABLE student (SrNo int UNIQUE KEY AUTO_INCREMENT,
Student_ID int PRIMARY KEY,
Name varchar(30) NOT NULL, Address varchar(50));
```

```
show tables;
```

```
desc student;
```

### **# To insert the records into the table student**

```
insert into student values (1, 100, 'Virat' , 'Delhi');
select * from student;
insert into student values (NULL, 101, 'Rohit' , 'Mumbai');
select * from student;
insert into student values (NULL, 102, 'Dhoni' , 'Ranchi');
select * from student;
```

### **# To delete records**

```
delete from student;  
select * from student;  
show tables;
```

```
drop table student;
```

### **#use of drop table command. So again create table student and add records as #shown above.....**

```
select * from student;  
drop table student;  
show tables;
```

### **#delete specific record**

```
delete from student where Student_ID=102;  
select * from student;  
desc student;
```

### **#Alter table: - add a column**

```
alter table student add Mobile_No varchar(10);  
desc student;  
select * from student;
```

### **# Alter table: - modify a column**

```
alter table student modify Address varchar(60) NOT NULL;  
desc student;
```

### **# Alter table: - rename a column**

```
alter table student change column Address Full_Address varchar (100) NOT  
NULL;
```

```
desc student;
```

### **# To rename table**

rename table student to TE\_student;

select \* from student; # Error

select \* from TE\_student;