What is Database?  
A database is a software that stores data in organized manner. So it become easy to manage the data.

Data Variables(RAM)

DataBase(we can store our data permanently)

Any Program-->> process(task)

Our program can store data in DB permanently.

For eg. Suppose we are going in shop to buy car, and he is saying we store our car in godam(Database), here only we show our models(temporary)

**What is MySQL?**

Popular database software use to handle data in relation manner.(In the form of Tables)

PRODUCT

ORDER

USER TABLE

**HOW MySQL WORKS?**

DB SERVER

COMMAND LINE CLIENT

**Queries -->**

1. **Show databases;**
2. **Create database [db\_name]**

**3 .Use [db\_name]**

**4 .Create table [table\_name] (col1,col2,col3);**

**5 .Eq user - create table user(id int(11) primary key, name varchar(100) not null, city varchar(60));**

**6 .Desc [tb\_name];**

**7 .Alter table [old table name] rename to [new table name];**

**8 . truncate table student; ---> only data will be deleted not table**

**9 . drop table [table\_name] ---> data aand table both will be deleted**

**10 . insert into student (id,name,city) values(12,'neha','kanpur');**

1. **insert into student values(12,'neha','kanpur');**
2. **Primary key - > unique rhega id**
3. **alter table student add country varchar(50);**
4. **Update [table\_name] set col=value, col=value where col=val (agar where ni lgayenge to pure columns update ho jayenge)**
5. **delete from [table\_name] where col=value(agar where ni lgayenge to pure columns update ho jayenge).**

**CLAUSES**

**Where:**

**---> select name as "username", city as "CITYNAME" from student;---> alias krn k liye--> thodi der k liye us col ka name change kr diya**

**select distinct(col) from [table\_name]; ----> distinct vlues**

**Between:**

**select \*from student where id between 12 and 15(12 and 15 will be included);**

**IN:**

**select \*from student where id=12 or id=14 or id=15; OR select \*from student where id in(12,14,15);**

**Limit:**

**Limit mtlb kitne select krne h aur offset mtlb kitne chodne h**

**select \*from student limit 2 offset 2;**

**Order by:**

**select \*from student order by name; ->>> by default ascending**

**select \*from student order by name desc;**