

Lab 01(SQL) Manual

Data Definition Language (DDL [1-5])

- Install XAMPP on your PC
- Start Apache and MySQL on XAMPP control panel
- Go to <http://localhost:8080/phpmyadmin>

1. **Create Database:**

create database Database_Name;

create database University;

2. **Create Table:**

Suppose we have a table named Student containing 3 columns

Name	ID	CGPA
...
...

```
create table Table_Name (
attribute1 attribute_Type(size),
..... ,
attribute1 attribute_Type(size)
);
```

```
⊕create table Student (
Name      varchar(20),
ID        int,
CGPA float(3,2)
);
```

**** Keywords / Clauses are case insensitive**

3. Alter Command: Modifies the structure of Table:

I. Alter table Table_name **add** ColumnName Datatype(size);

➤ Alter table Student add Gender varchar(10) ;

II. Alter table Table_name **drop** column_name;

➤ Alter table Student drop Gender;

III. Alter table Table_name **modify** ColumnName NewDataType(size);

➤ Alter table Student modify ID varchar(11) ;

IV. Alter table Table_name **change** oldname newname Datatype(size);

➤ Alter table Student change ID ST_ID varchar(11) ;

V. Alter table OldTable_name **rename** to newTable_name;

Alter table Student rename to Students;

4. Drop:

Drop table table_name;

➤ Drop table Student;

Drop database database_name;

➤ Drop database University;

5. Truncate:

Truncate table table_name;

➤ Truncate table Student;

******The table's structure, indexes, and constraints are not affected, so the table remains usable after truncation.

Data Modification Language (DML)

6. **Insert:**

insert into Table_name VALUES(Value1, Value2);

➤ insert into Student (Name,ID,CGPA) VALUES('Apon',10,3.60);

7. **Select (Retrieve):**

- Select * from Table_name; => Retrieving value from table (All columns)

- Select column1,column2 from Table_name where attribute1=value1 and attribute2 = value2;
 - Select ID, CGPA from Student where ID=1 and Name='Stark';

8. **Update:**

Update Table_name set attribute=value where someattribute=somevalue;

- Update student set Name='Rafiq' where ID=201;

9. **Delete:**

(Deletes a row)

Delete from Table_name where someattribute=somevalue;

- Delete from Student where ID=76;