**what is SQL ?**

SQL stands for structured query language

SQL is a language

SQl is a case insensitive language

Ex: INSERT , insert , Insert

SQL is used to create database | table structured

SQL is used to create database | table | delete | update information’s in database.

SQL types of command ?

1. DDL
2. DML
3. DQL
4. TCL
5. DDL : stands for data definition language

Ex: create | alter | rename | truncate | drop |change.

1. DML : stands for data manipulation language

Ex: insert | update | delete

1. DQL: stands for data query language

Ex: select

1. TCL: stands for transactional control language

Ex: commit | rollback

**DDL : a) create a database**

**Syntax :** create database databasename;

Ex: create database flipkart;

<http://localhost/phpmyadmin/>

create database flipkart\_db;

**b) create a table**

**Syntax :**

Create table tablename

(

Id int(default size) auto\_increment primary key,

Name varchar(255),

Email varchar(255),

Password varchar(255),

gender varchar(255),

hobby varchar(255),

mobile bigint,

message text

);

Ex: create TABLE users

(

userid int AUTO\_INCREMENT PRIMARY key,

name varchar(255),

password varchar(255),

firstname varchar(255),

lastname varchar(255),

gender varchar(255),

hobby varchar(255),

mobile bigint,

address text

);

create TABLE category

(

category\_id int AUTO\_INCREMENT PRIMARY key,

name varchar(255),

added\_date varchar(255)

);

create TABLE subcategory

(

subcategory\_id int AUTO\_INCREMENT PRIMARY key,

subcategoryname varchar(255),

added\_date varchar(255)

);

create TABLE products

(

product\_id int AUTO\_INCREMENT PRIMARY key,

category varchar(255),

subcategory varchar(255),

pname varchar(255),

pimage varchar(255),

price float,

qty int,

descriptions text

);

Alter : alter is used to add | modify | change column name is tables .

Ex: alter table products CHANGE descriptions product\_decriptions text;

Ex: alter table products add added\_date varchar(255);

Ex: alter table products add offer\_price float after price;

Change :

alter table products CHANGE descriptions product\_decriptions text;

Rename : rename is used to rename the table name

rename table category to flip\_category;

rename table products to flip\_products;

**truncate** : truncate is used to remove or empty all tables data after truncate we never rollback data

truncate table tablename;

ex: truncate table flip\_category;

**drop :** drop is used to drop database and table structure and data both after drop we can not rollback data

**drop a database**

drop database databasename ;

ex: drop database flipkart\_db;

**drop a table**

drop table tablename;

ex: drop table flip\_category;

drop table flip\_products;

<http://localhost/phpmyadmin/>

create database flipkart\_db;

**DML :** dml stands for data manipulation language

Query : a) insert

b) delete

c) update

how to insert data :

1. Insert :

Ex: insert into flip\_category (name,added\_date) values ('mobile','09/01/2023');

Or insert multiple data

insert into flip\_category (name,added\_date) values ('electronics','09/01/2023'),('furnitures','09/01/2023'),('kitchen ware','09/01/2023');

or another way to insert query without taking columns

insert into flip\_category values ('null','kids items','09/01/2023'),('null','Mens items','09/01/2023'),('null','womens items','09/01/2023');

1. Delete : delete is used to delete all tables data | or particular data | or alternate data

1. Delete from flip\_category; deleted all data from tables
2. Delete from flip\_category where category\_id=1;
3. Delete from flip\_category where name=’mobile’;
4. Delete from flip\_category where name in ('mens items','electronics','kitchen ware');
5. Delete from flip\_category where category\_id BETWEEN 1 and 100;
6. Update :

Update tablename set columnname=’value’ where id=’id’;

update flip\_category set name='electronics',added\_date='07/01/2023' where category\_id=3;

DQL : dql stands for data query language

Command : select

1. select \* from flip\_category
2. select \* from flip\_category where category\_id=3;
3. select \* from flip\_category where name=’mens items’;
4. select category\_id,name from flip\_category;
5. select \* from flip\_category order by name asc;
6. select \* from flip\_category order by name;
7. select \* from flip\_category order by name desc;