**Create DataBase:**

**--Create Database**

Create Database <DatabaseName>

Show Databases;

Use Database<DatabaseName>

--**create**

CREATE TABLE Student (

StudId INTEGER PRIMARY KEY,

name varchar(100),

age INTEGER,

course varchar(100)

);

-- **insert**

INSERT INTO Student(StudId,name,age,course) VALUES (0001, 'Sam',23,'CE');

INSERT INTO Student VALUES (0002, 'Kirti',23,'CE');

INSERT INTO Student VALUES (0003, 'Sakshi',21,'CS');

INSERT INTO Student VALUES (0004, 'Shraddha',22,'IT');

INSERT INTO Student VALUES (0005, 'Vedantika',22,'IT');

INSERT INTO Student VALUES (0006, 'Akshada',23,'AIDS');

INSERT INTO Student(StudId,name,age,course)

VALUES (0007, 'Kalyani',21,'E&TC'),(0008,'Sejal',22,'AIDS'),

(0009,'Sushant',23,'CE'),(0010,'Prathmesh',23,'E&TC');

**--Alter**

Alter TABLE Student modify age smallint;

Alter table Student Add Email Varchar(100);

alter table Student Drop column Email;

**--Rename**

rename table Student to Students;

**--Update**

update Students set name = 'Prasnna'

where StudId=0010;

**--delete**

delete FROM Students where StudId=0010;

delete FROM Students where age=21;

-- **fetch**

SELECT \* FROM Students ;

**Join**

**--** **create**

CREATE TABLE EMPLOYEE (

empId INTEGER PRIMARY KEY,

EmpName varchar(100),

deptId INTEGER

);

**-- insert**

INSERT INTO EMPLOYEE VALUES (0001, 'Kirti', 101);

INSERT INTO EMPLOYEE VALUES (0002, 'Akshada', 102);

INSERT INTO EMPLOYEE VALUES (0003, 'Sam',103 );

INSERT INTO EMPLOYEE VALUES (0004, 'Kalyani',201 );

INSERT INTO EMPLOYEE VALUES (0005, 'Sakshi',301 );

**--** **fetch**

SELECT \* FROM EMPLOYEE ;

**--** **create**

CREATE TABLE Department (

deptId INTEGER ,

Deptname varchar(100)

);

**-- insert**

INSERT INTO Department VALUES ( 101,'CE');

INSERT INTO DepartMent VALUES ( 102,'IT');

INSERT INTO Department VALUES ( 103,'CS');

INSERT INTO Department VALUES ( 104,'AIDS');

INSERT INTO Department VALUES ( 105,'E&TC');

INSERT INTO Department VALUES ( 201,'CE');

**--** **fetch**

SELECT \* FROM Department;

**--Inner** **Join**

SELECT e.EmpName,d.Deptname from Employee e inner join Department d

on e.deptId=d.deptId;

**--Left Join**

SELECT e.EmpName,d.Deptname from Employee e left join Department d

on e.deptId=d.deptId;

**--right Join**

SELECT e.EmpName,d.Deptname from Employee e right join Department d

on e.deptId=d.deptId;

**--full join**

SELECT e.EmpName,d.Deptname from Employee e left join Department d

on e.deptId=d.deptId union SELECT e.EmpName,d.Deptname from Employee e right join Department d

on e.deptId=d.deptId;