-- Create Database

-- DDL

create database CTSPracticeDB

use CTSPracticeDB

-- Create table

-- DDL Command

create table Student (

rn int,

name char(20),

address char(50),

marks int)

-- DQL / DML

select \* from student

--DML

insert into student values(1,'Ajay','Delehi', 90)

insert into student values(2,'Deepak','Calcutta', 90)

insert into student values(3,'Manoj','Bombay', 78)

insert into student values(4,'Sagar','Delhi', 89)

insert into student values(5,'Deepti','Bombay', 45)

insert into student values(6,'Daya','Calcutta', 85)

-- To insert multiple records together

insert into student values

(7,'Gagan','Calcutta', 85),

(8,'Farhan','Delhi', 28),

(9,'Maya','Calcutta', 76)

-- update record

-- DML

update student set address ='Delhi' where rn=1

-- List all Records

-- DML / DQL

select \* from student

-- Projection , means displaying some specific columns

select rn,name from student

select \* from student where address='Delhi'

-- LIKE Operator , its a pattern matching operator

select \* from student where address Like 'Delhi'

select \* from student where marks > 80

select \* from student where marks > 80 and marks< 90

-- Between , Range Operator ,its used to replace AND

select \* from student where marks between 80 and 90

select \* from student where address = 'Delhi' OR address='Calcutta'

-- In Operator , its used to replace OR

select \* from Student where address IN ('Delhi', 'Calcutta')

select rn ,name from student

-- change column heading only for display purpose

select rn "RollNo" ,name "Name of Student" from student

select rn As "RollNo" ,name As "Name of Student" from student

select rn , name , marks, marks + 20 from student

select rn , name , marks, marks + 20 As "Updated Marks" from student

-- update marks by 10 for every student

update student set marks = marks + 10

-- List Records where studnet name starts with A

Select \* from Student where name Like 'A%'

-- List Records where studnet name contains a

Select \* from Student where name Like '%a%'

-- List Records where studnet name ends with A

Select \* from Student where name Like '%a'

-- List Records where studnet name contains a at 2nd position

Select \* from Student where name Like '\_a%'

-- Delete record

-- DML

delete from student

delete student

delete student where rn =9

delete student where rn between 2 and 6

-- Display Records in ascending order based on marks

select \* from Student order by marks

select \* from Student order by marks desc

-- Display Records in ascending order based on marks, if the marks are same

-- then arrange them on rn

select \* from student order by marks , rn

select \* from student order by marks , rn desc

-- alter command is used to alter/change table structure

-- DDL

-- add column , delete column , modify column

alter table student add batch char(10)

select \* from student

update student set batch = 'B001' where rn < 4

update student set batch = 'B002' where rn between 4 and 8

update student set batch = 'B003' where rn = 9

alter table student add manager char(20) default 'Jatin' with values

-- to remove column batch

alter table student drop column batch

-- change column width

alter table student alter column name varchar(50)