--create database DPLaskya

--create database Test

--use Test

--drop database Test

create table Employee

(

id int,

empname varchar(25),

salary numeric(12,2)

)

sp\_help Employee

--alter is used to modify schema

alter table Employee add Qualification varchar(10)

--to modify column

alter table Employee alter column Qualification varchar(15)

--to delete colum.n

alter table Employee drop column Qualification

--rename column

sp\_rename 'Employee.salary','empsalary'

sp\_help Employee

alter table Employee alter column empname varchar(25) not null

alter table Employee alter column empsalary numeric(12,2) not null

alter table Employee alter column id int not null

alter table Employee add email varchar(40) not null unique

alter table Employee add constraint un\_emp unique(email)

--unique for multiple column

alter table Employee add constraint un\_emp unique(id,email)

alter table Employee drop constraint un\_emp

Create table Student

(

id int,

name varchar(30),

constraint pk\_stud primary key(id)

)

alter table Employee add constraint pk\_emp primary key(id)

alter table Employee drop constraint pk\_emp

alter table Employee add id int primary key

create table Book(

Bookid int,

BoookName varchar(20) not null,

AuthorId int primary key,

price float

)

sp\_help Book

--Author Table

create table Author(

AuthorId int foreign key(AuthorId) references Book(AuthorId),

AuthorName varchar(25) not null,

PhoneNo int unique,

Email varchar(20) unique,

Address varchar(20) not null,

City varchar(15) not null

)

sp\_help Author

--Award Table

create table Award(

Awardid int unique,

AwardTypeId int primary key,

AuthorId int,

constraint fk\_aw\_au foreign key(AuthorId) references Book(AuthorId)

)

alter table Award add constraint fk\_aw\_au foreign key(

sp\_help Award

reate table Book

(

id int primary key,

bookname varchar(20) not null,

authorname varchar(20) not null,

price numeric(12,2) not null

)

sp\_help Book

create table Dept(

did int primary key,

dname varchar(20) not null,

)

create table Emp(

eid int primary key,

ename varchar(25) not null,

did int,

constraint fk\_dept\_emp foreign key(did) references Dept(did)

)

sp\_help Dept

sp\_help Emp

--alter table Emp add constraint fk\_dept\_emp foreign key(did) references Dept(did)

create table Users(

userid int primary key,

username varchar(20) not null

)

create table Product(

pid int primary key,

pname varchar(20) not null

)

create table Orders(

oid int primary key,

userid int foreign key(userid) references Users(userid),

pid int foreign key(pid) references Product(pid)

)

sp\_help Orders

create table Emplyoee(

id int primary key,

name varchar(20) not null,

email varchar(25) unique,

age int check (age>=18)

)

insert into Emplyoee values(1,'Vidyshree','Vidyashree@gmail.com',20)

insert into Emplyoee values(2,'Vidya','Vidya@gmail.com',22)

insert into Emplyoee values(3,'Anjali','Anjali@gmail.com',20)

insert into Emplyoee values(4,'Akshata','Akshata@gmail.com',22)

insert into Emplyoee values(5,'Sagar','Sagar@gmail.com',23)

insert into Emplyoee values(6,'Pankaj','Pankaj@gmail.com',20)

insert into Emplyoee values(7,'Nilesh','Nilesh@gmail.com',22)

insert into Emplyoee values(8,'Snehal','Snehal@gmail.com',22)

insert into Emplyoee values(9,'Benzeer','Benzeer@gmail.com',25)

insert into Emplyoee values(10,'Sanket','Sanket@gmail.com',18)

select \* from Emplyoee

create table Emplyoee1(

id int primary key,

name varchar(20) not null,

email varchar(25) unique,

age int check (age>=18),

country varchar(20) default 'India'

)

insert into Emplyoee1 values(1,'Vidyshree','Vidyashree@gmail.com',20,'USA')

insert into Emplyoee1 values(2,'Vidya','Vidya@gmail.com',22,'USA')

insert into Emplyoee1 (id,name,email,age) values (3,'Anjali','Anjali@gmail.com',20)

insert into Emplyoee1 values(4,'Akshata','Akshata@gmail.com',22,'India')

insert into Emplyoee1 (id,name,email,age) values(5,'Sagar','Sagar@gmail.com',23)

insert into Emplyoee1 values(6,'Pankaj','Pankaj@gmail.com',20,'USA')

insert into Emplyoee1 (id,name,email,age) values(7,'Nilesh','Nilesh@gmail.com',22)

insert into Emplyoee1 (id,name,email,age) values(8,'Snehal','Snehal@gmail.com',22)

insert into Emplyoee1 values(9,'Benzeer','Benzeer@gmail.com',25,'UK')

insert into Emplyoee1 (id,name,email,age) values(10,'Sanket','Sanket@gmail.com',18)

select \* from Emplyoee1

update Emplyoee1 set name='Shruti' where id=2

update Emplyoee1 set age=23 where id in(9,4,6)

update Emplyoee1 set name='Harish',email='Harish@gmail.com',age=20 where id=4

delete from Emplyoee1 where id=10

create table Emloyee(

empid int primary key,

empname varchar(20) not null,

salary numeric(12,2),

deptname varchar(25),

address varchar(40),

designation varchar(20),

gender varchar(20)

)

insert into Emloyee values(1,'Vidyashree',50000,'Design','Patil galli jath','Developer','Female')

insert into Emloyee values(2,'Anjali',52000,'Development','Pashan Pune','Test Engineer','Female')

insert into Emloyee values(3,'Akshata',55000,'Finance','Pune road,Latur','Accountant','Female')

insert into Emloyee values(4,'Harish',60000,'Development','Chatriag Road Jath','General Manger','Male')

insert into Emloyee values(5,'Pramod',45000,'Marketing','Hanuman Galli Athani','Assistant Manager','Male')

select \* from Emloyee

--display Employee name sal&degignation

select empname,salary,designation from Emloyee

--Update salary by 10% pf emp who is from pune

Update Emloyee set salary=salary+(salary\*0.10) where address='Pashan Pune'

Update Emloyee set salary=(salary+(salary\*0.10)) where address='Pashan Pune'

--Delete all Emp whole sal is less than 45000 & city is pune

Delete from Emloyee where salary<45000 and address='Pashan Pune'

--Update adress of emp whose designation is General Manager

Update Emloyee set address='Pune' where designation='General Manger'

--Display all female emp

select \* from Emloyee where gender='Female'

--Display all emp from PUNE

select \* from Emloyee where address='Pune'

--DIAPLAY ALL EMP FROM General Manger WHERE LOCATION IS PUNE

select \* from Emloyee where deptname='Development' and address='Pune'

--delete emp from sales dep and sal>2500

delete from Emloyee where designation='Assistant Manager' and salary<50000

--To find unique record

select distinct country from Emplyoee1

--Between

select \* from Emplyoee1 where age between 20 and 25

--Like Clause

select \* from Emplyoee1 where name like 'v%'

select \* from Emplyoee1 where name like '%a'

select \* from Emplyoee1 where name like '%e%'

select \* from Emplyoee1 where name like '%[a-k]'

select \* from Emplyoee1 where name like '%[a-k]%'

select \* from Emplyoee1 where name like '[abcdefg]%'

select \* from Emplyoee1 where name like '%[abcdefg]'

select \* from Emplyoee1 where name like 'V\_\_Y\_'

select \* from Emplyoee1 where name like 'A\_\_\_\_\_'

--NOT LIKE---

select \* from Emplyoee1 where name not like 'V%'

select \* from Emplyoee1 where name not like '[abvf]%'

--IN CLAUSE--

select \* from Emplyoee1 where id in(1,2)

select \* from Emplyoee1 where country in('India','USA')

--NOT IN--

select \* from Emplyoee1 where age not in(22,18)

--AND OPERATOR--

select \* from Emplyoee1 where name='Vidyashee' and age=20

--OR OPERATOR--

select \* from Emplyoee1 where salary=25000 or name like '%a'

--NOT Operator--

select \* from Emplyoee1 where not country='India'

--ORDER BY--

select \* from Emplyoee1 order by name

select \* from Emplyoee1 order by salary

select \* from Emplyoee1 order by name desc

select \* from Emplyoee1 order by age desc

--NULL VALUES--

select \* from Emplyoee1 where country is null

--NOT NULL--

select \* from Emplyoee1 where country is not null

--Column alias--

select name as 'Employee Name' from Emplyoee1

select salary as 'Employee Salary' from Emplyoee1

--MAX Value--

select max(salary) as 'Max SAlary' from Emplyoee1

select max(age) as 'Max age' from Emplyoee1

--MIN VALUE--

select min(salary) as 'Min SAlary' from Emplyoee1

select min(age) as 'Min age' from Emplyoee1

--SUM VALUE--

select sum(salary) as 'Sum SAlary' from Emplyoee1

select sum(age) as 'Sum age' from Emplyoee1

--AVERAGE VALUE--

select avg(salary) as 'Avg SAlary' from Emplyoee1

select avg(age) as 'Avg age' from Emplyoee1

--TOTAL COUNT--

select count(\*) as 'Total Count' from Emplyoee1

--top 3 record

select top 3 \* from Emloyee

select top 3 \* from Emloyee order by salary desc

select top 1 \* from Emloyee order by salary desc

--top 2%

select top 2 percent \* from Emloyee

--first 3 matching record that means it will

--arrange in desc order then checks for the the 3 rd matching values

select top 3 with ties \* from Emloyee order by salary

--Offset is used to skip number of records

select \* from Emloyee order by salary desc offset 3 rows

--featch is used to display selected number of records

select \* from Emloyee order by salary desc offset 3 rows fetch next 5 rows only

select \* from Emloyee order by salary desc offset 1 rows fetch next 2 rows only

create table Deptt(

did int primary key,

dname varchar(25)

)

insert into Deptt values(101,'HR')

insert into Deptt values(102,'Admin')

insert into Deptt values(103,'Development')

insert into Deptt values(104,'Finance')

insert into Deptt values(105,'Sales')

select \* from Deptt

--alter table Emloyee add constraint fk\_dept\_emp foreign key(did) references Deptt(did)

alter table Emloyee add did int foreign key(did) references Deptt(did)

select \* from Emloyee

update Emloyee set did=1 where empid in(1,2)

update Emloyee set did=2 where empid in(3,4)

update Emloyee set did=3 where empid in(5,6)

select Emloyee.\*,Deptt.\*

from Emloyee

inner join Deptt on Deptt.did=Emloyee.did