use tempdatabase

drop table dept

Create table dept (id int primary key, name varchar(20),

manager varchar(20))

alter table employee add deptid int references dept (id),

perks int default 3000

select \* from employee

alter table employee drop constraint FK\_\_employee\_\_deptid\_\_5DCAEF64

insert into dept values

(1,'HR','Ajay'),

(2,'Accts','Vijay'),

(3,'Sales','Jay')

update employee set deptid=1,perks=3000 where id between 1 and 3

update employee set deptid=2,perks=3000 where id between 4 and 6

update employee set deptid=3,perks=2000 where id > 6

select \* from dept

select \* from employee

delete from dept where id=1

Create table dept (id int primary key, name varchar(20),

manager varchar(20))

drop table employee

create table employee (

id int primary key,

name varchar(20) not null,

address varchar(30) check(len(address) > 20),

salary int not null check (salary between 20000 AND 30000),

deptid int references dept (id) on delete cascade,

perks int default 3000)

insert into employee(id, name , address, salary,deptid) values

(1,'Ajay','8 block, Ramesh Nagar',29000,2)

insert into employee(id, name , address, salary,deptid) values

(2,'Ajay','8 block, Ramesh Nagar',23000,1)

insert into employee(id, name , address, salary,deptid) values

(3,'Deepak','9 block',21000,1),

(4,'Ajay','9 block, Ramesh ',23000,2),

(5,'Ajay','9 block, Calcutta',27000,1)

select \* from employee

select \* from dept

select \* from employee

delete from dept where id=1

JOINS

Are used to combine records from more than 1 table

1. Inner Join
2. Outer Join
   1. Left Outer Join
   2. Right Outer Join
   3. Full Outer Join
3. Cross Join
4. Self Join

Inner Joins > Are used to give common records (We need a common column)

Outer Join > Are used to give common as well as uncommon records (We need a common column)

Cross Join > We don’t need a common column

Self join > Used to join a table to itself (Recursive Join)

-- Give employee name , address & Manager Name

select employee.name , dept.manager from employee join dept

on employee.deptid=dept.id

select a.name , b.manager from employee a join dept b

on a.deptid=b.id

select \* from employee

alter table employee drop constraint CK\_\_employee\_\_addres\_\_628FA481

insert into employee values(4,'Lalit','Delhi',24000, 3, 3100)

insert into dept values(1,'IT','Karan'),(4,'Comm','Deepak Kumar')

select \* from dept

select \* from employee

select a.\* , b.\* from employee a full outer join dept b

on a.deptid=b.id

select \* from dept cross join employee

-- Self Join

alter table employee add managerid int

update employee set managerid=2 where id IN (3,4)

select \* from employee

select a.name As "Employee Name" , a.name As "Manager Name"

from employee a join employee b

on a.managerid = b.id

Views > Virtual Tables, the tables which get their data from base tables

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Name | Dept | Salary |
| 1 |  | Hr | 2323 |
|  |  | Accts | 2323 |
| 2 |  | Sales | 43434 |
|  |  | HR | 444455 |
|  |  | Hr | 2323 |
| 1000 |  | Accts | 43434 |

Purpose > Security of Data

-- Give employee name , address & Manager Name

select employee.name , dept.manager from employee join dept

on employee.deptid=dept.id

select a.name , b.manager from employee a join dept b

on a.deptid=b.id

select \* from employee

alter table employee drop constraint CK\_\_employee\_\_addres\_\_628FA481

insert into employee values(4,'Lalit','Delhi',24000, 3, 3100)

insert into dept values(1,'IT','Karan'),(4,'Comm','Deepak Kumar')

select \* from dept

select \* from employee

select a.\* , b.\* from employee a full outer join dept b

on a.deptid=b.id

select \* from dept cross join employee

-- Self Join

alter table employee add managerid int

update employee set managerid=2 where id IN (3,4)

select \* from employee

select a.name As "Employee Name" , a.name As "Manager Name"

from employee a join employee b

on a.managerid = b.id

alter view V1 as

select \* from employee

where deptid=2

select \* from V1

select \* from v1

insert into V1 values(10,'Jatin','Delhi',23000,1,1000,2)

drop view V1

Simple View > Views which are created from 1 table

Complex View > Views which are created from more than 1 table (Joins)

We can perform INSERT , DLETE , UPDATE THRU SIMPLE VIEW

We can perform INSERT , DLETE , THRU COMPLEX VIEW