------create a table category to store (cid,cname,description)

product(pid,pname, exp\_dt,price,qty,cid,sid)

salesman(sid,sname,address)

constraints

1. pname cannot be null -------- not null
2. cname has to be unique -------unique
3. sname cannot be null
4. qty > 0 ---------------------check
5. price default 100.00 ---------- default

create table category(

cid int primary key,

cname varchar(20) unique,

description varchar(20));

unique allows to add any number of null value but not null values cannot be duplicate

create table salesman(

sid int primary key,

sname varchar(20) not null,

address varchar(30))

-------------------

product(pid,pname,exp\_dt,price,qty,cid,sid)

create table product(

pid int primary key,

pname varchar(20) not null,

exp\_dt date,

price decimal(9,2),

qty int check(qty>0),

cid int references category(cid)

on delete set null

on update cascade,

sid int references salesman(sid)

on delete no action

on update cascade);

--------table level constraint ---🡪 we may write after last filed

primary key ,foreign key,unique,check can be defined as table level constraint.

create table product(

pid int,

pname varchar(20) not null,

exp\_dt date,

price decimal(9,2) default 100.00,

qty int check(qty>0),

cid int,

sid int ,

constraint pk\_pid primary key(pid),

constraint fk\_cid foreign key(cid) references category(cid)

on delete set null

on update cascade,

constraint fk\_sid foreign key(sid)

references salesman(sid)

on delete no action

on update cascade);

example 2

faculty(fid,fname,spsub)

102 trupti database

100 bakul Java

103 tejal HTML

104 ashu Java

room(rid,rname,rloc)

rname unique

10 Mogra 1st floor

20 Jasmin 2nd floor

30 Lotus 1st floor

course(cid,cname,rid,fid)

1 DBDA 10 100

2 DAC 20 102

3 DTISS

cname- unique not null

faculty(fid,fname,spsub)

create table faculty(

fid int primary key,

fname varchar(20) not null,

spsub varchar(30)

)

room(rid,rname,rloc)

create table room(

rid int auto\_increment,

rname varchar(20) unique not null,

rloc varchar(20),

constraint rp\_rid primary key(rid)

);

insert into room values(default,'xxx','vvv');

insert into room(rname,rloc) values('xxx','vvv');

course(cid,cname,rid,fid)

create table course(

cid int primary key,

cname varchar(20) unique not null,

rid int,

fid int,

constraint fk\_rid foreign key(rid) references room(rid)

on delete set null

on update cascade,

constraint fk\_fid foreign key(fid) references faculty(fid)

on delete set null

on update cascade);

subject(fid,spsub)

create table subject(

fid int,

spsub varchar(20),

constraint pk\_fid\_sub primary key(fid,supsub),

constrinst fk\_fid foreign key(fid) references faculty(fid)

)

select \* from emp e

where sal < (select sal

from emp s

where s.empno=e.mgr)