create database Project;

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/\* Creating 3-Tables with all keys and attribute.\*/

create table Product(prod varchar(50) not null primary key, pname varchar(50), price varchar(50));

create table Depot(dep varchar(50) not null primary key, addr varchar(50), volume varchar(50));

create table Stock( prod varchar(50), dep varchar(50), quantity varchar(50), foreign key(dep) references Depot(dep) on delete cascade on update cascade, foreign key(prod) references Product(prod) on delete cascade on update cascade);

select \* from product;

select \* from depot;

select \* from stock;

/\*entering data in product table.\*/

insert into Product values('p1','tape','2.5');

insert into Product values('p2','tv','250');

insert into Product values('p3','vcr','80');

select \* from product;

/\* entering data in depot table.\*/

insert into Depot values('d1','New York','9000');

insert into Depot values('d2','Syracuse','6000');

insert into Depot values('d4','New York','2000');

select \* from depot;

/\* entering data in stock table.\*/

insert into Stock values('p1','d1','1000');

insert into Stock values('p1','d2','-100');

insert into Stock values('p1','d4','1200');

insert into Stock values('p3','d1','3000');

insert into Stock values('p3','d4','2000');

insert into Stock values('p2','d4','1500');

insert into Stock values('p2','d1','-400');

insert into Stock values('p2','d2','2000');

select \* from stock;

/\*first transaction, We add a depot (d100, Chicago, 100) in Depot and (p1, d100, 100) in Stock.\*/

begin;

insert into depot values('d100','Chicago','100');

insert into Stock values('p1','d100','100');

commit;

select \* from depot;

select \* from stock;

/\*transaction, The depot d1 changes its name to dd1 in Depot and Stock.\*/

begin;

update depot set dep = 'dd1' where dep = 'd1';

commit;

select \* from depot;

select \* from stock;

/\* Third transaction, The depot d1 is deleted from Depot and Stock.\*/

begin;

delete from depot where dep = 'd1';

COMMIT;

select \* from depot;

select \* from stock;

/\*fourth transaction, The product p1 changes its name to pp1 in Product and Stock.\*/

begin;

update product set prod = 'pp1' where prod = 'p1';

commit;

select \* from product;

select \* from stock;

/\*fifth transaction, We add a product (p100, cd, 5) in Product and (p100, d2, 50) in Stock.\*/

begin;

insert into Product values('p100','cd','5');

insert into Stock values('p100','d2','50');

commit;

select \* from product;

select \* from stock;