1. Create database parts;

Use parts;

create table suppliers (sno int primary key, sname varchar (50), status int, scity varchar(100));

create table parts (pno int primary key, pname varchar(50), color varchar(20), weight int, city varchar(50));

create table project (jno int primary key, jname varchar (50), jcity varchar(50));

create table shipment (sno int, pno int, jno int, quantity int, foreign key (sno) references suppliers (sno) on delete cascade, foreign key (pno) references parts (pno) on delete cascade, foreign key (jno) references projects (jno) on delete cascade);

insert into suppliers values

(1, ‘s1’, 21, ‘Paris’),

(2, ‘s2’, 34, ‘USA’),

(3, ‘s3’, 45, ‘Delhi’),

(4, ‘s4’, 35, ‘London’),

(5, ‘s5’, 19, ‘Helsinki’);

Insert into parts values

(1, ‘p1’, ‘red’, 14, ‘Paris’),

(2, ‘p2’, ‘black’, 20, ‘London’),

(3, ‘p3’, ‘white’, 35, ‘Delhi’),

(4, ‘p4’, ‘green’, 16, ‘Helsinki’),

(5, ‘p5’, ‘yellow’, 30, ‘Mumbai’);

Insert into project values

(1, ‘j1’, ‘Paris’),

(2, ‘j2’, ‘London’),

(3, ‘j3’, ‘USA’),

(4, ‘j4’, ‘Paris’),

(5, ‘j5’, ‘London’);

Insert into Shipment values

(1,2, 3,370),

(2,3,4,760),

(2,1,4,650),

(5,1,2,450),

(5,5,1,400);

1. primary key : sno in table suppliers, pno in table parts, jno in table project

foreign key : sno in table shipment, pno in table shipment, jno in table project

1. select sno from suppliers where scity=‘Paris’ and status>20;
2. Select \* from suppliers where sno in (select sno from shipment where pno in (select pno from parts where pname=‘p2’)) Order by sno;
3. Select sname from suppliers where sno in (Select distinct sno from shipment where pno in(select pno from parts where pname!=‘p2’));
4. select s.sno, s.pno, s.jno, s.quantity, s.quantity\*p.weight as "Total\_shipment\_weight" from shipment s, parts p where s.pno=p.pno;
5. Select \* from shipment where quantity between 300 and 750;
6. select pno from parts where weight>16 or pno in(select pno from shipment where sno in(select s.sno from shipment s, suppliers su where s.sno=su.sno and su.sname="s2"));
7. select city from parts where colour="Red" and pno in(select pno from shipment where quantity>5);
8. select \* from parts where pno in(select Pno from shipment where sno in(select sno from suppliers where Scity="London"));
9. select pno from shipment where sno in(select sno from suppliers where scity=’London’) and jno in(Select jno from project where Jcity=’London’);
10. select count(distinct(Jno)) as "No. of Project Supplied by supplier S1" from shipment where sno in(select sno from suppliers where Sname=’s1’);
11. select count(\*) from parts where Pno in(Select Pno from shipment where sno in(select Sno from suppliers where sname =’s1’)) and Pname=’p1’;