1.&2.create table sample.supplier(supp\_id int not null primary key,supp\_name varchar(50) not null,supp\_phone varchar(50));

alter table sample.supplier add supp\_city varchar(50);

create table sample.customer(cus\_id int not null primary key,cus\_name varchar(20) not null,

cus\_phone varchar(10) not null,cus\_city varchar(30) not null,cus\_gender char);

create table sample.category (cat\_id int not null,cat\_name varchar(20) not null)

alter table sample.category add primary key(cat\_id)

create table sample.product (pro\_id int not null,pro\_name varchar(20) not null default "Dummy",pro\_desc varchar(60),

catid int,

foreign key(catid) references sample.category(cat\_id))

alter table sample.product add primary key(pro\_id)

create table sample.supplier\_pricing (pricing\_id int not null primary key

,pro\_id int ,

supp\_id int,

supp\_price int default 0,

catid int,

foreign key(pro\_id) references sample.product(pro\_id),

foreign key(supp\_id) references sample.supplier(supp\_id)

)

create table sample.order (ord\_id int not null primary key,

ord\_amount int not null,

ord\_date date not null,

cus\_id int,

pricing\_id int,

foreign key(cus\_id) references sample.customer(cus\_id),

foreign key(pricing\_id) references sample.supplier\_pricing(pricing\_id)

)

create table sample.rating (rat\_id int primary key,

ord\_id int not null,

rat\_stars int not null,

foreign key(ord\_id) references sample.order(ord\_id)

)

3. insert into sample.supplier values(1,'Rajesh Retails','Delhi','1234567890'),

(2,'Appario Ltd.','Mumbai','2589631470'),

(3,'Knome products','Bangalore','9785463285'),

(4,'Bansal Retails','Kochi','8975463285'),

(5,'Mittal Ltd','Lucknow','7898456532')

insert into sample.customer values(1,'AAKASH','9999999999','DELHI','M'),

(2,'AMAN','9785463215',' NOIDA','M'),

(3,'NEHA','9999999999','MUMBAI ','F'),

(4,'MEGHA','9994562399','KOLKATA','F'),

(5,'PULKIT','7895999999','LUCKNOW','M')

insert into sample.category values(1,'BOOKS'),

(2,'GAMES'),

(3,'GROCERIES'),

(4,'ELECTRONICS'),

(5,'CLOTHES')

insert into sample.product values

(1,'GTA V','Windows 7 and above with i5 processor and 8GB RAM ',2),

(2,'TSHIRT','SIZE-L with Black, Blue and White variations',5),

(3,'ROG LAPTOP','Windows 10 with 15inch screen, i7 processor, 1TB SSD',4),

(4,'OATS','Highly Nutritious from Nestle',3),

(5,'HARRY POTTER','Best Collection of all time by J.K Rowling',1),

(6,'MILK','1L Toned MIlk',3),

(7,'Boat Earphones','1.5Meter long Dolby Atmos ',4),

(8,'Jeans','Stretchable Denim Jeans with various sizes and color',5),

(9,'Project IGI','compatible with windows 7 and above',2),

(10,'Hoodie','Black GUCCI for 13 yrs and above',5),

(11,'Rich Dad Poor Dad','Written by RObert Kiyosaki',1),

(12,'Train Your Brain','By Shireen Stephen',1)

insert into sample.supplier\_pricing values

(1,1,2,1500),

(2,3,5,30000),

(3,5,1,3000),

(4,2,3,2500),

(5,4,1,1000),

(6,12,2,780),

(7,12,4,789),

(8,3,1,31000),

(9,1,5,1450),

(10,4,2,999),

(11,7,3,549),

(12,7,4,529),

(13,6,2,105),

(14,6,1,99),

(15,2,5,2999),

(16,5,2,2999)

insert into sample.order values

(101, 1500, '2021-10-06', 2, 1),

(102, 1000, '2021-10-12', 3, 5),

(103, 30000, '2021-09-16', 5, 2),

(104, 1500, '2021-10-05', 1, 1),

(105, 3000, '2021-08-16', 4, 3),

(106, 1450, '2021-08-18', 1, 9),

(107, 789, '2021-09-01', 3, 7),

(108, 780, '2021-09-07', 5, 6),

(109, 3000, '2021-09-10', 5, 3),

(110, 2500, '2021-09-10', 2, 4),

(111, 1000, '2021-09-15', 4, 5),

(112, 789, '2021-09-16', 4, 7),

(113, 31000, '2021-09-16', 1, 8),

(114, 1000, '2021-09-16', 3, 5),

(115, 3000, '2021-09-16', 5, 3),

(116, 99, '2021-09-17', 2, 14)

insert into sample.rating values

(1, 101, 4),

(2, 102, 3),

(3, 103, 1),

(4, 104, 2),

(5, 105, 4),

(6, 106, 3),

(7, 107, 4),

(8, 108, 4),

(9, 109, 3),

(10, 110, 5),

(11, 111, 3),

(12, 112, 4),

(13, 113, 2),

(14, 114, 1),

(15, 115, 1),

(16, 116, 0)

4. select c.cus\_gender,count(distinct o.cus\_id) from sample.customer c inner join sample.order o on c.cus\_id=o.cus\_id where o.ord\_amount>=3000 group by c.cus\_gender

5. select o.ord\_amount,o.ord\_date,p.pro\_name from sample.order o inner join

sample.supplier\_pricing sp on o.pricing\_id=sp.pricing\_id

inner join sample.product p on sp.pro\_id=p.pro\_id where o.cus\_id=2

6. select s.\* from sample.supplier s inner join sample.supplier\_pricing sp on s.supp\_id=sp.supp\_id group by sp.supp\_id having count(sp.supp\_id)>1

7. select cat\_prices.catid,cat\_prices.cat\_name,p\_price.pro\_name as name,cat\_prices.min\_price from

(select p.catid,c.cat\_name,min(sp.supp\_price) as min\_price

from sample.supplier\_pricing sp

inner join sample.product p

on sp.pro\_id=p.pro\_id

inner join sample.category c on p.catid=c.cat\_id

group by p.catid) as cat\_prices inner join

(select p.pro\_name,sp.supp\_price from sample.supplier\_pricing sp

inner join sample.product p on sp.pro\_id=p.pro\_id) p\_price on cat\_prices.min\_price=p\_price.supp\_price;

8. select p.pro\_id,p.pro\_name from sample.product p inner join sample.supplier\_pricing sp on

p.pro\_id=sp.pro\_id inner join sample.order o

on sp.pricing\_id=o.pricing\_id where o.ord\_date>'2021-10-05'

9. select cus\_name,cus\_gender from customer where cus\_name like 'a%' or cus\_name like '%a';select cus\_name,cus\_gender from customer where cus\_name like 'a%' or cus\_name like '%a';