create database `order-directory`;

use `order-directory`;

-- **supplier**

create table if not exists supplier(

SUPP\_ID int primary key,

SUPP\_NAME VARCHAR(50) NOT NULL,

SUPP\_CITY VARCHAR(50),

SUPP\_PHONE VARCHAR(10) NOT NULL

);

-- **customer**

create table if not exists customer(

CUS\_ID INT NOT NULL,

CUS\_NAME VARCHAR(20) NOT NULL,

CUS\_PHONE VARCHAR(10) NOT NULL,

CUS\_CITY VARCHAR(30) NOT NULL,

CUS\_GENDER CHAR,

PRIMARY KEY (CUS\_ID)

);

-- **category**

CREATE TABLE IF NOT EXISTS CATEGORY(

CAT\_ID INT NOT NULL,

CAT\_NAME VARCHAR(20) NOT NULL,

PRIMARY KEY (CAT\_ID)

);

-- **product**

CREATE TABLE IF NOT EXISTS PRODUCT(

PRO\_ID INT NOT NULL,

PRO\_NAME VARCHAR(20) NOT NULL DEFAULT "DUMMY",

PRO\_DESC VARCHAR(60),

CAT\_ID INT NOT NULL,

PRIMARY KEY (PRO\_ID),

FOREIGN KEY (CAT\_ID) REFERENCES CATEGORY (CAT\_ID)

);

-- **supplier\_pricing**

CREATE TABLE IF NOT EXISTS SUPPLIER\_PRICING(

PRICING\_ID INT NOT NULL,

PRO\_ID INT NOT NULL,

SUPP\_ID INT NOT NULL,

SUPP\_PRICE INT DEFAULT 0,

PRIMARY KEY (PRICING\_ID),

FOREIGN KEY (PRO\_ID) REFERENCES PRODUCT (PRO\_ID),

FOREIGN KEY (SUPP\_ID) REFERENCES SUPPLIER(SUPP\_ID),

UNIQUE (PRO\_ID,SUPP\_ID)

);

**-- Order**

CREATE TABLE IF NOT EXISTS `ORDER`(

ORD\_ID INT NOT NULL,

ORD\_AMOUNT INT NOT NULL,

ORD\_DATE DATE,

CUS\_ID INT NOT NULL,

PRICING\_ID INT NOT NULL,

PRIMARY KEY (ORD\_ID),

FOREIGN KEY (CUS\_ID) REFERENCES CUSTOMER (CUS\_ID),

FOREIGN KEY (PRICING\_ID) REFERENCES SUPPLIER\_PRICING(PRICING\_ID)

);

**-- Rating**

CREATE TABLE IF NOT EXISTS RATING(

RAT\_ID INT NOT NULL,

ORD\_ID INT NOT NULL,

RAT\_RATSTARS INT NOT NULL,

PRIMARY KEY (RAT\_ID),

FOREIGN KEY (ORD\_ID) REFERENCES `ORDER` (ORD\_ID),

UNIQUE (ORD\_ID)

);

-- Supplier Table

insert into supplier value (1, 'Rajesh Retails', 'Delhi', 1234567890);

insert into supplier value (2, 'Appario\_Ltd.', 'Mumbai', 2589631470);

insert into supplier value (3, 'Knome products', 'Banglore', 9785462315);

insert into supplier value (4, 'Bansal Retails', 'Kochi', 8975463285);

insert into supplier value (5, 'Mittal Ltd.', 'Lucknow', 7898456532);

-- Customer Table

insert into Customer value (1, 'AAKASH', 9999999999, 'DELHI', 'M');

insert into Customer value (2, 'AMAN', 9785463215, 'NOIDA', 'M');

insert into Customer value (3, 'NEHA', 9999999999, 'MUMBAI', 'F');

insert into Customer value (4, 'MEGHA', 9994562399, 'KOLKATA', 'F');

insert into Customer value (5, 'PULKIT', 7895999999, 'LUCKNOW', 'M');

-- Category Table

insert into Category value (1, 'BOOKS');

insert into Category value (2, 'GAMES');

insert into Category value (3, 'GROCERIES');

insert into Category value (4, 'ELECTRONICS');

insert into Category value (5, 'CLOTHES');

-- Product Table

insert into Product value (1, 'GTA V', 'Windows 7 and above with i5 processor and 8GB RAM', 2);

insert into Product value (2, 'TSHIRT', 'SIZE-L with Black, Blue and White variations', 5);

insert into Product value (3, 'ROG LAPTOP', 'Windows 10 with 15inch screen, i7 processor, 1TB SSD', 4);

insert into Product value (4, 'OATS', 'Highly Nutritious from Nestle', 3);

insert into Product value (5, 'HARRY POTTER', 'Best Collection of all time by J.K Rowling', 1);

insert into Product value (6, 'MILK', '1L Toned MIlk', 3);

insert into Product value (7, 'Boat Earphones', '1.5Meter long Dolby Atmos', 4);

insert into Product value (8, 'Jeans', 'Stretchable Denim Jeans with various sizes and color', 5);

insert into Product value (9, 'Project IGI', 'compatible with windows 7 and above', 2);

insert into Product value (10, 'Hoodie', 'Black GUCCI for 13 yrs and above', 5);

insert into Product value (11, 'Rich Dad Poor Dad', 'Written by RObert Kiyosaki', 1);

insert into Product value (12, 'Train Your Brain', 'By Shireen Stephen', 1);

-- Supplier\_pricing Table

insert into Supplier\_pricing values (1, 1, 2, 1500);

insert into Supplier\_pricing values (2, 3, 5, 30000);

insert into Supplier\_pricing values (3, 5, 1, 3000);

insert into Supplier\_pricing values (4, 2, 3, 2500);

insert into Supplier\_pricing values (5, 4, 1, 1000);

-- Order Table

insert into `Order` value (101, 1500, '2021-10-06', 2, 1);

insert into `Order` value (102, 1000, '2021-10-12', 3, 5);

insert into `Order` value (103, 30000, '2021-09-16', 5, 2);

insert into `Order` value (104, 1500, '2021-10-05', 1, 1);

insert into `Order` value (105, 3000, '2021-08-16', 4, 3);

insert into `order` value (106, 1450, '2021-08-18', 1, 9);

insert into `Order` value (107, 789, '2021-09-01', 3, 7);

insert into `Order` value (108, 780, '2021-09-07', 5, 6);

insert into `Order` value (109, 3000, '2021-01-10', 5, 3);

insert into `Order` value (110, 2500, '2021-09-10', 2, 4);

insert into `Order` value (111, 1000, '2021-09-15', 4, 5);

insert into `Order` value (112, 789, '2021-09-16', 4, 7);

insert into `Order` value (113, 31000, '2021-09-16', 1, 8);

insert into `Order` value (114, 1000, '2021-09-16', 3, 5);

insert into `Order` value (115, 3000, '2021-10-06', 5, 3);

insert into `Order` value (116, 99, '2021-09-17', 2, 1);

-- Rating table

insert into Rating values (1,101,4);

insert into Rating values (2,102,3);

insert into Rating values (3,103,1);

insert into Rating values (4,104,2);

insert into Rating values (5,105,4);

insert into Rating values (6,106,3);

insert into Rating values (7,107,4);

insert into Rating values (8,108,4);

insert into Rating values (9,109,3);

insert into Rating values (10,110,5);

insert into Rating values (11,111,3);

insert into Rating values (12,112,4);

insert into Rating values (13,113,2);

insert into Rating values (14,114,1);

insert into Rating values (15,115,1);

insert into Rating values (16,116,0);

select cus\_id from `order` group by cus\_id having sum(ord\_amount) >= 3000;

select cus\_gender,count(cus\_gender) from customer where cus\_id in (select cus\_id from `order` group by cus\_id having sum(ord\_amount) >= 3000) group by cus\_gender;

select `order`.\* from `order` where cus\_id =2;

select o.\*, sp.pro\_id from `order` as o, supplier\_pricing as sp where cus\_id = 2 and o.pricing\_id = sp.pricing\_id;

select o.\*,p.pro\_name from `order` as o, supplier\_pricing as sp , product as p where cus\_id = 2 and o.pricing\_id = sp.pricing\_id and sp.pro\_id = p.pro\_id;

select supp\_id from supplier\_pricing group by supp\_id having count(supp\_id)> 1;

select \* from supplier where supp\_id in (select supp\_id from supplier\_pricing group by supp\_id having count(supp\_id)> 1);

select pro\_id,pricing\_id,min(supp\_price) as minprice from supplier\_pricing group by pro\_id;

select pp.Cat\_ID, c.cat\_NAME , pp.Pro\_name , MIN(SUPP\_PRICE) MinPrice

from supplier\_pricing ss

INNER JOIN PRODUCT pp ON pp.Pro\_ID = ss.Pro\_ID

INNER JOIN Category c ON c.cat\_Id = pp.Cat\_ID

GROUP BY pp.Cat\_ID;

select \* from `order` where ord\_date > "2021-10-05";

select pricing\_id from `order` as o where ord\_date > "2021-10-05";

select pro\_id from supplier\_pricing as sp where pricing\_id in (select pricing\_id from `order` as o where ord\_date > "2021-10-05");

select pro\_id,pro\_name from product as p where pro\_id in (select pro\_id from supplier\_pricing as sp where pricing\_id in (select pricing\_id from `order` as o where ord\_date > "2021-10-05"));

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

select ord\_id,rat\_ratstars from rating;

select o.ord\_id,r.rat\_ratstars from rating as r ,`order` as o where r.ord\_id = o.ord\_id;

select sp.supp\_id,o.ord\_id,r.rat\_ratstars from rating as r ,`order` as o,supplier\_pricing as sp where r.ord\_id = o.ord\_id and sp.pricing\_id = o.pricing\_id;

select supp\_id,supp\_name,Avg\_rating,

case when Avg\_rating =5 then 'Excellent Service'

when Avg\_rating > 4 then 'Good Service'

when Avg\_rating >2 then 'Average Service'

else 'Poor Service'

end as Type\_of\_Service from (select sp.supp\_id,s.supp\_name,avg(r.rat\_ratstars) as Avg\_rating

from rating as r ,`order` as o,supplier\_pricing as sp, supplier as s where r.ord\_id = o.ord\_id and sp.pricing\_id = o.pricing\_id and s.supp\_id = sp.supp\_id group by sp.supp\_id ) as T1;