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

);

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));

CREATE TABLE IF NOT EXISTS category (

CAT\_ID INT NOT NULL,

CAT\_NAME VARCHAR(20) NOT NULL,

PRIMARY KEY (CAT\_ID)

);

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)

);

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)

);

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)

);

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)

);

#3)

INSERT INTO `e-commerce`.`supplier` (`SUPP\_ID`, `SUPP\_NAME`, `SUPP\_CITY`, `SUPP\_PHONE`)

VALUES

(1, 'Rajesh Retails', 'Delhi', '1234567890'),

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

(3, 'Knome products', 'Banglore', '9785462315'),

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

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

SELECT \* FROM `e-commerce`.`supplier`;

INSERT INTO `e-commerce`.`customer` (`CUS\_ID`, `CUS\_NAME`, `CUS\_PHONE`, `CUS\_CITY`, `CUS\_GENDER`)

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');

SELECT \* FROM `e-commerce`.`customer`;

INSERT INTO `e-commerce`.`category` (`CAT\_ID`, `CAT\_NAME`)

VALUES

(1, 'BOOKS'),

(2, 'GAMES'),

(3, 'GROCERIES'),

(4, 'ELECTRONICS'),

(5, 'CLOTHES');

SELECT \* FROM `e-commerce`.`category`;

INSERT INTO `e-commerce`.`product` (`PRO\_ID`, `PRO\_NAME`, `PRO\_DESC`, `CAT\_ID`)

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);

SELECT \* FROM `e-commerce`.`product`;

INSERT INTO `e-commerce`.`supplier\_pricing` (`PRICING\_ID`, `PRO\_ID`, `SUPP\_ID`, `SUPP\_PRICE`)

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, 1, 2999);

SELECT \* FROM `e-commerce`.`supplier\_pricing`;

INSERT INTO `e-commerce`.`order` (`ORD\_ID`, `ORD\_AMOUNT`, `ORD\_DATE`, `CUS\_ID`, `PRICING\_ID`)

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);

SELECT \* FROM `e-commerce`.`order`;

INSERT INTO `e-commerce`.`rating` (`RAT\_ID`, `ORD\_ID`, `RAT\_RATSTARS`)

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);

SELECT \* FROM `e-commerce`.`rating`;

#4)

SELECT COUNT(T2.CUS\_GENDER) AS No\_Of\_Customer, T2.CUS\_GENDER AS Gender FROM

(

SELECT T1.CUS\_ID, T1.CUS\_GENDER, T1.ORD\_AMOUNT, T1.CUS\_NAME FROM

(

SELECT o.\*, c.CUS\_NAME, c.CUS\_GENDER FROM `e-commerce`.`order` AS o

INNER JOIN `e-commerce`.`customer` AS c ON c.CUS\_ID=o.CUS\_ID HAVING o.ORD\_AMOUNT>=3000

) AS T1

) AS T2 GROUP BY T2.CUS\_GENDER;

#5)

SELECT C.CUS\_ID, C.CUS\_NAME, P.ORD\_ID, P.ORD\_AMOUNT FROM

(

SELECT O.\* FROM `e-commerce`.`order` AS O

INNER JOIN `e-commerce`.`supplier\_pricing` AS SP

WHERE O.PRICING\_ID=SP.PRICING\_ID

) AS P

INNER JOIN `e-commerce`.`customer` AS C

WHERE P.CUS\_ID=C.CUS\_ID AND C.CUS\_ID=2;

#6)

SELECT SUP.\* FROM `e-commerce`.`supplier` AS SUP WHERE SUP.SUPP\_ID IN

(

SELECT SP.SUPP\_ID FROM `e-commerce`.`supplier\_pricing` AS SP GROUP BY SP.SUPP\_ID HAVING COUNT(SP.SUPP\_ID)>3

);

#7)

select c.CAT\_ID,c.CAT\_NAME, min(t3.min\_price) as Min\_Price from `e-commerce`.`category` as c

inner join

(

select p.CAT\_ID, p.PRO\_NAME, t2.\* from `e-commerce`.`product` as p

inner join

(

select pro\_id, min(supp\_price) as Min\_Price from `e-commerce`.`supplier\_pricing` group by pro\_id

) as t2 on t2.PRO\_ID=p.PRO\_ID

) as t3 on t3.CAT\_ID= c.CAT\_ID group by t3.CAT\_ID;

#8)

select p.PRO\_ID,p.PRO\_NAME from `e-commerce`.`product` as p

inner join

(

SELECT O.\*, sp.PRO\_ID FROM `e-commerce`.`order` AS O

inner join

`e-commerce`.`supplier\_pricing` as sp on sp.PRICING\_ID=O.pricing\_id and O.ord\_date>"2021-10-05"

) as q

on p.PRO\_ID = q.PRO\_ID;

#9)

use `e-commerce`;

SELECT customer.cus\_name,customer.cus\_gender FROM `customer` WHERE customer.cus\_name LIKE 'A%' OR customer.cus\_name LIKE '%A';

#10)

use `e-commerce`;

drop procedure if exists `supplier\_ratings`;

DELIMITER $$

USE `e-commerce`$$

CREATE PROCEDURE `supplier\_ratings` ()

BEGIN

select report.SUPP\_ID, report.Average,

CASE

WHEN report.Average =5 THEN 'Excellent Service'

WHEN report.Average >4 THEN 'Good Service'

WHEN report.Average >2 THEN 'Average Service'

ELSE 'Poor Service'

END AS Type\_of\_Service from

(

select test2.supp\_id, avg(rat\_ratstars) as Average from

(

select sp.SUPP\_ID,t1.ord\_id,t1.rat\_ratstars from `e-commerce`.`supplier\_pricing` as sp

inner join

(

select o.PRICING\_ID, rat.ORD\_ID , rat.RAT\_RATSTARS from `e-commerce`.`order` as o

inner join

`e-commerce`.`rating` as rat on o.ORD\_ID = rat.ORD\_ID

) as t1 on sp.PRICING\_ID =t1.pricing\_id

) as test2 group by test2.SUPP\_ID

) as report;

END$$

DELIMITER ;