CREATE TABLE category (

cat\_id int(5) NOT NULL AUTO\_INCREMENT,

cat\_name varchar(15) NOT NULL,

PRIMARY KEY (cat\_id));

INSERT INTO category (cat\_id, cat\_name) VALUES

(1, 'BOOKS'),

(2, 'GAMES'),

(3, 'GROCERIES'),

(4, 'ELECTRONICS'),

(5, 'CLOTHES');

CREATE TABLE product (

pro\_id int(5) NOT NULL AUTO\_INCREMENT,

pro\_name varchar(15) NOT NULL,

pro\_desc varchar(50) DEFAULT NULL,

cat\_id int(5) DEFAULT NULL,

PRIMARY KEY (pro\_id),

KEY cat\_id (cat\_id));

INSERT INTO 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 S', 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 col', 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 D', 'Written by RObert Kiyosaki', 1),

(12, 'Train Your Brai', 'By Shireen Stephen', 1);

CREATE TABLE supplier (

supp\_id int(5) NOT NULL,

supp\_name varchar(15) NOT NULL,

supp\_city varchar(15) NOT NULL,

supp\_phone varchar(10) NOT NULL,

PRIMARY KEY (supp\_id));

INSERT INTO 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);

CREATE TABLE supplier\_pricing (

pricing\_id int(5) NOT NULL AUTO\_INCREMENT,

pro\_id int(5) NOT NULL,

supp\_id int(5) NOT NULL,

supp\_price int(5) DEFAULT 0,

PRIMARY KEY (pricing\_id),

KEY pro\_id (pro\_id),

KEY supp\_id (supp\_id));

INSERT INTO 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, 2, 2999);

CREATE TABLE customer (

cus\_id int(5) NOT NULL AUTO\_INCREMENT,

cus\_name varchar(15) NOT NULL,

cus\_phone varchar(10) NOT NULL,

cus\_city varchar(10) NOT NULL,

cus\_gender char(1) NOT NULL,

PRIMARY KEY (cus\_id));

INSERT INTO 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');

CREATE TABLE orders (

ord\_id int(5) NOT NULL AUTO\_INCREMENT,

ord\_amount int(10) NOT NULL,

ord\_date date DEFAULT NULL,

cus\_id int(5) DEFAULT NULL,

pricing\_id int(5) DEFAULT NULL,

PRIMARY KEY (ord\_id),

KEY cus\_id (cus\_id),

KEY pricing\_id (pricing\_id));

INSERT INTO orders (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);

CREATE TABLE rating (

rat\_id int(5) NOT NULL AUTO\_INCREMENT,

ord\_id int(5) DEFAULT NULL,

rat\_ratstars int(1) NOT NULL ,

PRIMARY KEY (rat\_id),

KEY ord\_id (ord\_id));

INSERT INTO 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);

/\*Display the total number of customers based on gender who have placed individual orders of worth at least Rs.3000.

SELECT p.cus\_gender AS Gender, COUNT(cus\_gender) AS NoOfCustomers

FROM (SELECT c.cus\_id, cus\_gender

FROM customer c

JOIN `orders` o ON c.cus\_id = o.cus\_id

WHERE ord\_amount >= 3000

GROUP BY c.cus\_id) p

GROUP BY p.cus\_gender; \*/

/\*Display all the orders along with product name ordered by a customer having Customer\_Id=2

SELECT o.ord\_id, o.ord\_amount, o.ord\_date, p.pro\_name

FROM `orders` AS o

JOIN supplier\_pricing AS s ON o.pricing\_id = s.pricing\_id

JOIN product p ON s.pro\_id = p.pro\_id

WHERE cus\_id = 2; \*/

/\*Display the Supplier details who can supply more than one product.

SELECT \* FROM supplier

WHERE supp\_id IN (SELECT supp\_id

FROM (SELECT supp\_id, pro\_count

FROM (SELECT COUNT(pro\_id) AS pro\_count, supp\_id

FROM supplier\_pricing

GROUP BY supp\_id) AS merge\_table

WHERE pro\_count > 1) AS final\_table); \*/

/\*Find the least expensive product from each category and print the table with category id, name, product name and price of the product

select category.cat\_id, category.cat\_name,min(t3.min\_price)

as min\_price from category

inner join (select product.cat\_id,product.PRO\_NAME,t2.\* from product

inner join (select PRO\_ID,min(SUPP\_PRICE) as min\_price from supplier\_pricing group by PRO\_ID)

as t2 where t2.PRO\_ID=product.PRO\_ID)

as t3 where t3.cat\_id=category.cat\_id group by t3.cat\_id; \*/

/\*Display the Id and Name of the Product ordered after “2021-10-05”.

select product.PRO\_ID, product.PRO\_NAME from `orders`

join supplier\_pricing

on supplier\_pricing.PRICING\_ID=`orders`.pricing\_id

join product

on product.pro\_id=supplier\_pricing.pro\_id

where `orders`.ord\_date>"2021-10-05"; \*/

/\*Display customer name and gender whose names start or end with character 'A'.

select customer.CUS\_NAME,customer.CUS\_GENDER

from customer where customer.CUS\_NAME

like'A%' or customer.CUS\_NAME like'%A'; \*/

/\*Create a stored procedure to display supplier id, name, Rating(Average rating of all the products sold by every customer) and

Type\_of\_Service. For Type\_of\_Service, If rating =5, print “Excellent Service”,If rating >4 print “Good Service”, If rating >2 print “Average

Service” else print “Poor Service”. Note that there should be one rating per supplier.

select report.supp\_id, report.supp\_name, report.average,

case

when average = 5 then 'Excellent Service'

when average > 4 then 'Good Service'

when average > 2 then 'Average Service'

else 'poor service'

end as type\_of\_service

from (select final.supp\_id, supplier.supp\_name, final.average

from (select test2.supp\_id, sum(test2.RAT\_RATSTARS)/count(test2.RAT\_RATSTARS) as average

from (select supplier\_pricing.supp\_id, test.ord\_id, test.RAT\_RATSTARS from supplier\_pricing

inner join (select `orders`.pricing\_id, rating.ord\_id, rating.RAT\_RATSTARS

from `orders` inner join rating on rating. `ord\_id` = `orders`.ord\_id) as test

on test.pricing\_id = supplier\_pricing.pricing\_id) as test2

group by supplier\_pricing.supp\_id) as final

inner join supplier

where final.supp\_id = supplier.supp\_id) as report; \*/