To solve the given problem, we need to create the required tables, insert the provided data, and then write the specified SQL queries and stored procedure. Here is the complete SQL code:

Step 1: Create Tables

CREATE TABLE supplier (

SUPP\_ID INT PRIMARY KEY,

SUPP\_NAME VARCHAR(50) NOT NULL,

SUPP\_CITY VARCHAR(50) NOT NULL,

SUPP\_PHONE VARCHAR(10) NOT NULL

);

CREATE TABLE customer (

CUS\_ID INT PRIMARY KEY,

CUS\_NAME VARCHAR(50) NOT NULL,

CUS\_PHONE VARCHAR(20) NOT NULL,

CUS\_CITY VARCHAR(30) NOT NULL,

CUS\_GENDER CHAR(1) NOT NULL

);

CREATE TABLE category (

CAT\_ID INT PRIMARY KEY,

CAT\_NAME VARCHAR(20) NOT NULL

);

CREATE TABLE product (

PRO\_ID INT PRIMARY KEY,

PRO\_NAME VARCHAR(20) NOT NULL,

PRO\_DESC VARCHAR(60) DEFAULT 'Dummy',

CAT\_ID INT,

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

);

CREATE TABLE supplier\_pricing (

PRICING\_ID INT PRIMARY KEY,

PRO\_ID INT,

SUPP\_ID INT,

SUPP\_PRICE INT DEFAULT 0,

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

FOREIGN KEY (SUPP\_ID) REFERENCES supplier(SUPP\_ID)

);

CREATE TABLE orders (

ORD\_ID INT PRIMARY KEY,

ORD\_AMOUNT INT NOT NULL,

ORD\_DATE DATE NOT NULL,

CUS\_ID INT,

PRICING\_ID INT,

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

FOREIGN KEY (PRICING\_ID) REFERENCES supplier\_pricing(PRICING\_ID)

);

CREATE TABLE rating (

RAT\_ID INT PRIMARY KEY,

ORD\_ID INT,

RAT\_RATSTARS INT NOT NULL,

FOREIGN KEY (ORD\_ID) REFERENCES orders(ORD\_ID)

);

**Step 2: Insert Data**

sql

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-- Insert data into supplier table

INSERT INTO supplier (SUPP\_ID, SUPP\_NAME, SUPP\_CITY, SUPP\_PHONE) VALUES

(1, 'RajeshRetails', 'Delhi', '1234567890'),

(2, 'ApparioLtd.', 'Mumbai', '2589631470'),

(3, 'Knomeproducts', 'Banglore', '9785462315'),

(4, 'BansalRetails', 'Kochi', '8975463285'),

(5, 'MittalLtd.', 'Lucknow', '7898456532');

-- Insert data into customer table

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');

-- Insert data into category table

INSERT INTO category (CAT\_ID, CAT\_NAME) VALUES

(1, 'BOOKS'),

(2, 'GAMES'),

(3, 'GROCERIES'),

(4, 'ELECTRONICS'),

(5, 'CLOTHES');

-- Insert data into product table

INSERT INTO product (PRO\_ID, PRO\_NAME, PRO\_DESC, CAT\_ID) VALUES

(1, 'GTAV', 'Windows7andabovewithi5processorand8GBRAM', 2),

(2, 'TSHIRT', 'SIZE-LwithBlack,BlueandWhitevariations', 5),

(3, 'ROGLAPTOP', 'Windows10with15inchscreen, i7processor,1TBSSD', 4),

(4, 'OATS', 'HighlyNutritiousfromNestle', 3),

(5, 'HARRYPOTTER', 'BestCollectionofalltimebyJ.KRowling', 1),

(6, 'MILK', '1LTonedMIlk', 3),

(7, 'BoatEarphones', '1.5MeterlongDolbyAtmos', 4),

(8, 'Jeans', 'StretchableDenimJeanswithvarioussizesandcolor', 5),

(9, 'Project IGI', 'compatiblewithwindows7andabove', 2),

(10, 'Hoodie', 'BlackGUCCIfor13yrsandabove', 5),

(11, 'RichDadPoorDad', 'WrittenbyRObertKiyosaki', 1),

(12, 'TrainYourBrain', 'ByShireenStephen', 1);

-- Insert data into supplier\_pricing table

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);

-- Insert data into orders table

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, '2021-00-10', 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 data into rating table

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);

**Step 3: Write Queries**

sql

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-- Query 4: Display the total number of customers based on gender who have placed individual orders of worth at least Rs. 3000.

SELECT CUS\_GENDER, COUNT(DISTINCT customer.CUS\_ID) AS Total\_Customers

FROM customer

JOIN orders ON customer.CUS\_ID = orders.CUS\_ID

WHERE orders.ORD\_AMOUNT >= 3000

GROUP BY CUS\_GENDER;

-- Query 5: Display all the orders along with product name ordered by a customer having Customer\_Id=2.

SELECT orders.ORD\_ID, product.PRO\_NAME

FROM orders

JOIN supplier\_pricing ON orders.PRICING\_ID = supplier\_pricing.PRICING\_ID

JOIN product ON supplier\_pricing.PRO\_ID = product.PRO\_ID

WHERE orders.CUS\_ID = 2;

-- Query 6: Display the supplier details who can supply more than one product.

SELECT supplier.SUPP\_ID, supplier.SUPP\_NAME, supplier.SUPP\_CITY, supplier.SUPP\_PHONE

FROM supplier

JOIN supplier\_pricing ON supplier.SUPP\_ID = supplier\_pricing.SUPP\_ID

GROUP BY supplier.SUPP\_ID, supplier.SUPP\_NAME, supplier.SUPP\_CITY, supplier.SUP

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