Problem Statement

An E-commerce website manages its data in the form of various tables.

1) You are required to create tables for **supplier,customer,category,product,supplier_pricing,order,rating** to store the data for the E-commerce with the schema definition given below.

Table:supplier
Columns:

SUPP_ID	INT PK
SUPP_NAME	varchar(50) NOT NULL
SUPP_CITY	varchar(50) NOT NULL
SUPP_PHONE	varchar(50) NOT NULL

Table:customer
Columns:

CUS_ID	INT PK
CUS_NAME	VARCHAR(20) NOT NULL
CUS_PHONE	VARCHAR(10) NOT NULL

CUS_CITY	VARCHAR(30) NOT NULL
CUS_GENDER	CHAR

Table:category
Columns:

CAT_ID	INT PK
CAT_NAME	VARCHAR(20) NOT NULL

Table:product
Columns:

PRO_ID	INT PK
PRO_NAME	VARCHAR(20) NOT NULL DEFAULT "Dummy"
PRO_DESC	VARCHAR(60)
CAT_ID	INT FK

Table:supplier_pricing
Columns:

PRICING_ID	INT PK
PRO_ID	INT FK
SUPP_ID	INT FK
SUPP_PRICE	INT DEFAULT 0

Table:order
Columns:

ORD_ID	INT PK
ORD_AMOUNT	INT NOT NULL
ORD_DATE	DATE NOT NULL
CUS_ID	INT FK
PRICING_ID	INT FK

Table:rating
Columns: (Rating provided in this table is common for product and supplier)

RAT_ID	INT PK

ORD_ID	INT FK
RAT_RATSTARS	INT NOT NULL

2) Insert the following data in the table created above

Supplier Table-

SUPP_ID	SUPP_NAME	SUPP_CITY	SUPP_PHONE
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

Customer Table-

CUS_ID	CUS_NAME	CUS_PHONE	CUS_CITY	CUS_GENDER
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

Category Table-

CAT_ID	CAT_NAME
1	BOOKS

2	GAMES
3	GROCERIES
4	ELECTRONICS
5	CLOTHES

Product Table-

PRO_ID	PRO_NAME	PRO_DESC	CAT_ID
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

Supplier_pricing Table-

PRICING_ID	PRO_ID	SUPP_ID	SUPP_PRICE
1	1	2	1500
2	3	5	30000
3	5	1	3000
4	2	3	2500
5	4	1	1000

Order Table-

ORD_ID	ORD_AMOUNT	ORD_DATE	CUS_ID		PRICING_ID
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	

Rating table-

RAT_ID	ORD_ID	RAT_RATSTARS
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

Queries →

Write queries for the following:

3) Display the total number of customers based on gender who have placed orders of worth at least Rs.3000.
4) Display all the orders along with product name ordered by a customer having Customer_Id=2
5) Display the Supplier details who can supply more than one product.
6) Find the least expensive product from each category and print the table with category id, name, product name and price of the product
7) Display the Id and Name of the Product ordered after “2021-10-05”.
8) Display customer name and gender whose names start or end with character 'A'.
9) Create a stored procedure to display supplier id, name, rating 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”.