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GRADED LAB 4

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Create database e\_comm ;

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.

create table supplier(

SUPP\_ID INT Primary key,

SUPP\_NAME varchar(50) NOT NULL,

SUPP\_CITY varchar(50) NOT NULL,

SUPP\_PHONE varchar(50) NOT NULL

);

create table customer(

CUS\_ID INT Primary key,

CUS\_NAME VARCHAR(20) NOT NULL,

CUS\_PHONE VARCHAR(10) NOT NULL,

CUS\_CITY VARCHAR(30) NOT NULL,

CUS\_GENDER CHAR

);

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 DEFAULT "Dummy",

PRO\_DESC VARCHAR(60),

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 e\_comm.order

(

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 e\_comm.order(ORD\_ID)

);

1. **Insert the following data in the table created above**

**Supplier**

INSERT INTO Supplier (`SUPP\_ID`,`SUPP\_NAME`,`SUPP\_CITY`,`SUPP\_PHONE`) VALUES (1,'Rajesh Retails','Delhi','1234567890');

INSERT INTO Supplier (`SUPP\_ID`,`SUPP\_NAME`,`SUPP\_CITY`,`SUPP\_PHONE`) VALUES (2,'Appario Ltd.','Mumbai','2589631470');

INSERT INTO Supplier (`SUPP\_ID`,`SUPP\_NAME`,`SUPP\_CITY`,`SUPP\_PHONE`) VALUES (3,'Knome products','Banglore','9785462315');

INSERT INTO Supplier (`SUPP\_ID`,`SUPP\_NAME`,`SUPP\_CITY`,`SUPP\_PHONE`) VALUES (4,'Bansal Retails','Kochi','8975463285');

INSERT INTO Supplier (`SUPP\_ID`,`SUPP\_NAME`,`SUPP\_CITY`,`SUPP\_PHONE`) VALUES (5,'Mittal Ltd.','Lucknow','7898456532');

**Customer**

INSERT INTO Customer(`CUS\_ID`,`CUS\_NAME`,`CUS\_PHONE`,`CUS\_CITY`,`CUS\_GENDER`) VALUES (1,'AAKASH','9999999999','DELHI','M');

INSERT INTO Customer (`CUS\_ID`,`CUS\_NAME`,`CUS\_PHONE`,`CUS\_CITY`,`CUS\_GENDER`) VALUES (2,'AMAN','9785463215','NOIDA','M');

INSERT INTO Customer (`CUS\_ID`,`CUS\_NAME`,`CUS\_PHONE`,`CUS\_CITY`,`CUS\_GENDER`) VALUES (3,'NEHA','9999999999','MUMBAI','F');

INSERT INTO Customer (`CUS\_ID`,`CUS\_NAME`,`CUS\_PHONE`,`CUS\_CITY`,`CUS\_GENDER`) VALUES (4,'MEGHA','9994562399','KOLKATA','F');

INSERT INTO Customer (`CUS\_ID`,`CUS\_NAME`,`CUS\_PHONE`,`CUS\_CITY`,`CUS\_GENDER`) VALUES (5,'PULKIT','7895999999','LUCKNOW','M');

**Category**

INSERT INTO Category (`CAT\_ID`,`CAT\_NAME`) VALUES (1,'BOOKS');

INSERT INTO Category (`CAT\_ID`,`CAT\_NAME`) VALUES (2,'GAMES');

INSERT INTO Category (`CAT\_ID`,`CAT\_NAME`) VALUES (3,'GROCERIES');

INSERT INTO Category (`CAT\_ID`,`CAT\_NAME`) VALUES (4,'ELECTRONICS');

INSERT INTO Category (`CAT\_ID`,`CAT\_NAME`) VALUES (5,'CLOTHES');

**Product**

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);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (2,'TSHIRT','SIZE-L with Black, Blue and White variations',5);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (3,'ROG LAPTOP','Windows 10 with 15inch screen, i7 processor, 1TB SSD',4);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (4,'OATS','Highly Nutritious from Nestle',3);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (5,'HARRY POTTER','Best Collection of all time by J.K Rowling',1);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (6,'MILK','1L Toned MIlk',3);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (7,'Boat Earphones','1.5Meter long Dolby Atmos',4);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (8,'Jeans','Stretchable Denim Jeans with various sizes and color',5);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (9,'Project IGI','compatible with windows 7 and above',2);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (10,'Hoodie','Black GUCCI for 13 yrs and above',5);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (11,'Rich Dad Poor Dad','Written by RObert Kiyosaki',1);

INSERT INTO Product (`PRO\_ID`,`PRO\_NAME`,`PRO\_DESC`,`CAT\_ID`) VALUES (12,'Train Your Brain','By Shireen Stephen',1);

**Supplier\_pricing**

INSERT INTO Supplier\_pricing (`PRICING\_ID`,`PRO\_ID`,`SUPP\_ID`,`SUPP\_PRICE`) VALUES (1,1,2,1500);

INSERT INTO Supplier\_pricing (`PRICING\_ID`,`PRO\_ID`,`SUPP\_ID`,`SUPP\_PRICE`) VALUES (2,3,5,30000);

INSERT INTO Supplier\_pricing (`PRICING\_ID`,`PRO\_ID`,`SUPP\_ID`,`SUPP\_PRICE`) VALUES (3,5,1,3000);

INSERT INTO Supplier\_pricing (`PRICING\_ID`,`PRO\_ID`,`SUPP\_ID`,`SUPP\_PRICE`) VALUES (4,2,3,2500);

INSERT INTO Supplier\_pricing (`PRICING\_ID`,`PRO\_ID`,`SUPP\_ID`,`SUPP\_PRICE`) VALUES (5,4,1,1000);

**Order**

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (101,1500,'2021-10-06',2,1);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (102,1000,'2021-10-12',3,5);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (103,30000,'2021-09-16',5,2);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (104,1500,'2021-10-05',1,1);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (105,3000,'2021-08-16',4,3);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (109,3000,'2021-00-10',5,3);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (110,2500,'2021-09-10',2,4);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (111,1000,'2021-09-15',4,5);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (114,1000,'2021-09-16',3,5);

INSERT INTO Order(`ORD\_ID`,`ORD\_AMOUNT`,`ORD\_DATE`,`CUS\_ID`,`PRICING\_ID`) VALUES (115,3000,'2021-09-16',5,3);

**Rating**

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (1,101,4);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (2,102,3);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (3,103,1);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (4,104,2);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (5,105,4);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (9,109,3);

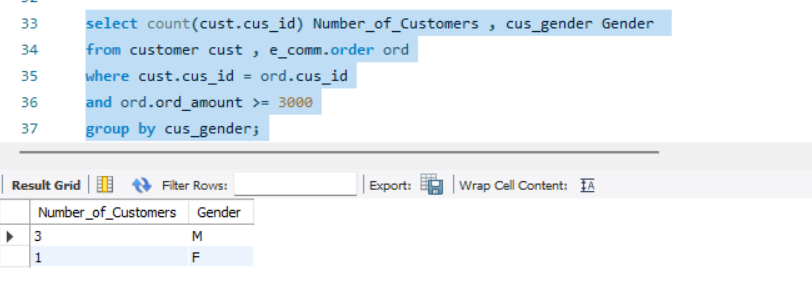
INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (10,110,5);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (11,111,3);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (14,114,1);

INSERT INTO Rating(`RAT\_ID`,`ORD\_ID`,`RAT\_RATSTARS`) VALUES (15,115,1);

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



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

**select**

**ord.\* ,prd.PRO\_DESC**

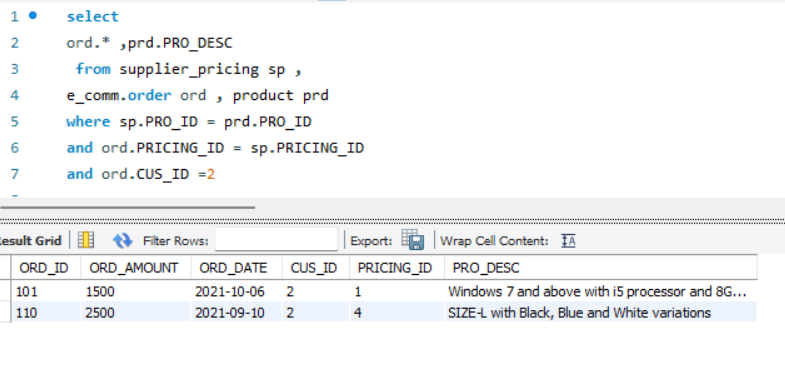
**from supplier\_pricing sp ,**

**e\_comm.order ord , product prd**

**where sp.PRO\_ID = prd.PRO\_ID**

**and ord.PRICING\_ID = sp.PRICING\_ID**

**and ord.CUS\_ID =2**

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

select supp\_mst.\* from supplier supp\_mst,

(

select SUPP\_ID ,count(PRO\_ID)

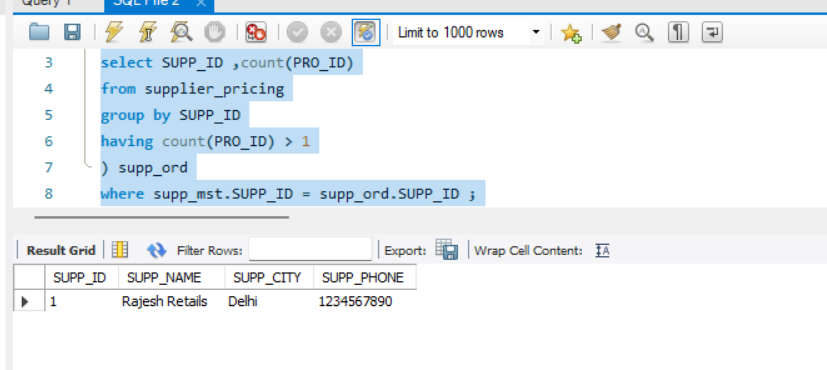
from supplier\_pricing

group by SUPP\_ID

having count(PRO\_ID) > 1

) supp\_ord

where supp\_mst.SUPP\_ID = supp\_ord.SUPP\_ID ;



1. Find the least expensive product from each category and print the table with category id, name, product name and price of the product

select

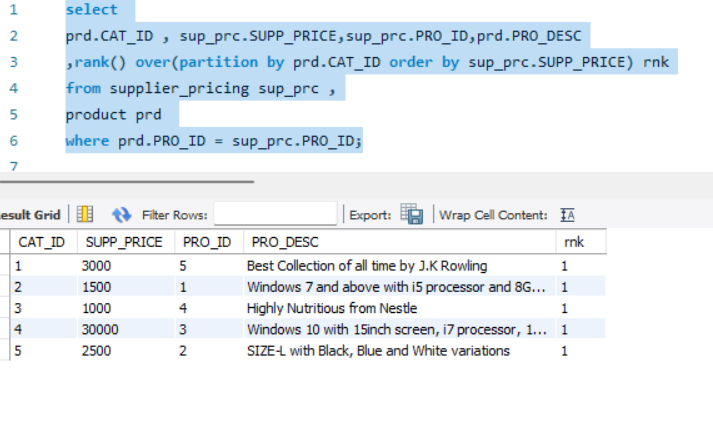
prd.CAT\_ID , sup\_prc.SUPP\_PRICE,sup\_prc.PRO\_ID,prd.PRO\_DESC

,rank() over(partition by prd.CAT\_ID order by sup\_prc.SUPP\_PRICE) rnk

from supplier\_pricing sup\_prc ,

product prd

where prd.PRO\_ID = sup\_prc.PRO\_ID;

5)5)

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

SELECT

prc.PRO\_ID, prc.PRO\_DESC

FROM

product prc,

e\_comm.order ord,

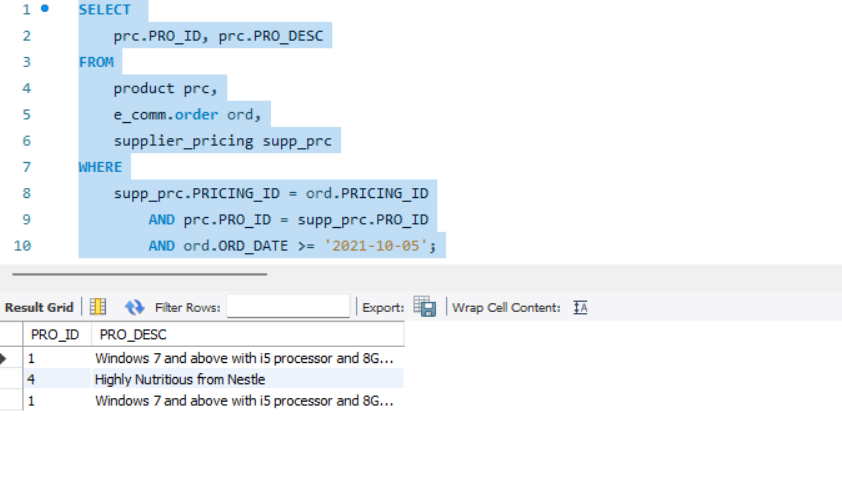
supplier\_pricing supp\_prc

WHERE

supp\_prc.PRICING\_ID = ord.PRICING\_ID

AND prc.PRO\_ID = supp\_prc.PRO\_ID

AND ord.ORD\_DATE >= '2021-10-05';



1. Display customer name and gender whose names start or end with character 'A'.

SELECT

c.CUS\_NAME, c.CUS\_GENDER

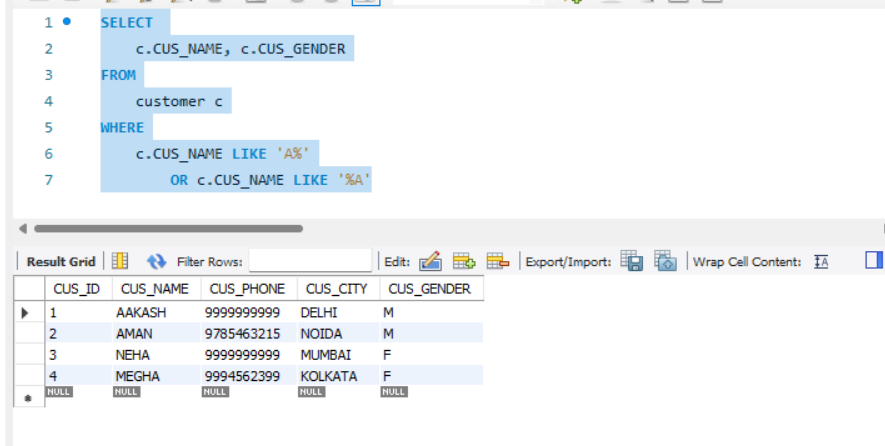
FROM

customer c

WHERE

c.CUS\_NAME LIKE 'A%'

OR c.CUS\_NAME LIKE '%A'



1. Create a stored procedure to display supplier id, name, rating and Tyx`pe\_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”.

Delimiter //

CREATE PROCEDURE PriceOfCurrentMonth()

Begin

select supp.SUPP\_ID,supp.SUPP\_NAME ,avg(rtng.RAT\_RATSTARS) rating ,

case when avg(rtng.RAT\_RATSTARS) = 5 then 'Excellent Service'

when avg(rtng.RAT\_RATSTARS) > 4 then 'Good Service'

when avg(rtng.RAT\_RATSTARS) > 2 then 'Average Service'

else 'Poor Service' end Type\_of\_Service

from rating rtng ,supplier supp,

e\_comm.order ord , supplier\_pricing sprc

where ord.PRICING\_ID = sprc.PRICING\_ID

and sprc.SUPP\_ID = supp.SUPP\_ID

and rtng.ORD\_ID = ord.ORD\_ID

group by supp.SUPP\_ID,supp.SUPP\_NAME

order by rating desc ;

End //

