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Date:- 16 Feb 2022

DE Lab Assignment 04

1. ADD column "Cost" to Product_Detail Table. Calculate cost(Quantity*Price) for each "S.NO." and return PRODUCT DETAIL Table whose Cost greater than 100 and Cost less than 600?

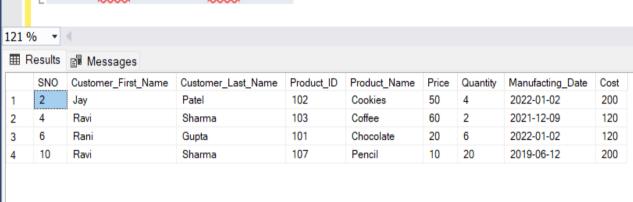
Program:-

```
CREATE DATABASE Product Details
Use Product Details
Create Table Product Details
SNO int,
Customer First Name varchar(10),
Customer Last Name varchar(10),
Product ID int,
Product Name varchar(15),
Price int.
Quantity int,
Manufacting_Date Date,
SELECT* From Product Details
INSERT INTO Product Details
VALUES(1, 'Ravi', 'Sharma', 101, 'Chocolate', 20, 5, '2022-02-01');
Select* From Product_Details
INSERT INTO Product Details
VALUES(2, 'Jay', 'Patel', 102, 'Cookies', 50, 4, '2022-01-02');
INSERT INTO Product Details VALUES(3, 'Rani', 'Gupta', 103, 'Coffee', 60, 1, '12-
09-2021');
INSERT INTO Product Details
VALUES(4, 'Ravi', 'Sharma', 103, 'Coffee', 60, 2, '12-09-2021');
INSERT INTO Product Details VALUES(5, 'Jay', 'Patel', 104, 'Pen', 10, 10, '03-06-
2019');
INSERT INTO Product Details
VALUES(6, 'Rani', 'Gupta', 101, 'Chocolate', 20, 6, '01-02-2022');
INSERT INTO Product_Details
VALUES(7, 'Priya', 'Patel', 102, 'Cookies', 50, 2, '02-01-2022');
INSERT INTO Product_Details
VALUES(8, 'Jay', 'Patel', 105, 'Notebook', 100, 10, '04-04-2016');
INSERT INTO Product_Details VALUES(9, 'Rani', 'Gupta', 106, 'Watch', 600, 1, '05-
12-2021');
INSERT INTO Product Details
VALUES(10, 'Ravi', 'Sharma', 107, 'Pencil', 10, 20, '06-12-2019');
```

```
INSERT INTO Product_Details
VALUES(11, 'Jay', 'Patel', 101, 'Chocolate', 20, 3, '01-02-2022');

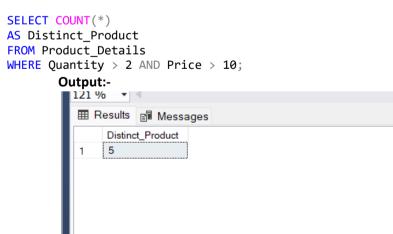
SELECT* From Product_Details
ALTER TABLE Product_Details ADD
Cost INT;
UPDATE Product_Details SET
Cost=Quantity*Price;

SELECT * FROM Product_Details
WHERE Cost>100 AND Cost<600;</pre>
Output:-
```



2. Return count of distinct product column name as Distinct_Product from PRODUCT_DETAIL whose Quantity is greater than 2 and Price greater than 10.

Program:-

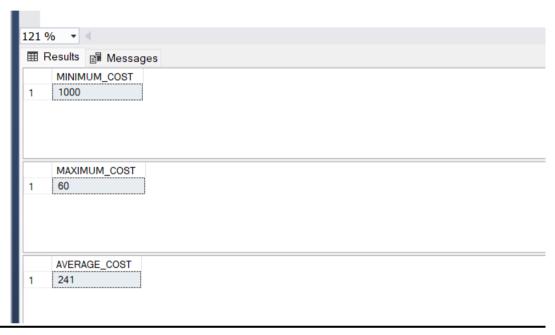


3. Find and return the maximum Cost column name as MINIMUM_COST, minimum Cost column name as MAXIMUM_COST, Average Cost column name as AVERAGE_COST for Cost Attribute from PRODUCT_DETAIL table.

Program:-

```
SELECT MAX(Cost) AS MINIMUM_COST FROM Product_Details;
SELECT MIN(Cost) AS MAXIMUM_COST FROM Product_Details;
SELECT AVG(Cost) AS AVERAGE COST FROM Product Details;
```

Output:-



4. Add a column name Date_of_expire and calculate the Date of expire of all the Product from Manufacture_Date column (best before 6 months from manufacturing for each product). Return Product_ID, Product_Name, Manufacture_Date, Date_of_expire from PRODUCT_DETAIL TABLE.

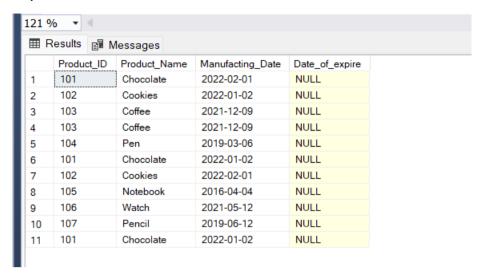
Program:-

```
ALTER TABLE Product_Details ADD Date_of_expire date;

UPDATE Product_Details SET Date_of_expire = DATEADD('month',6,'Manufacture_Date');

SELECT Product_ID,Product_Name,Manufacting_Date,Date_of_expire from Product_Details;
```

Output:-

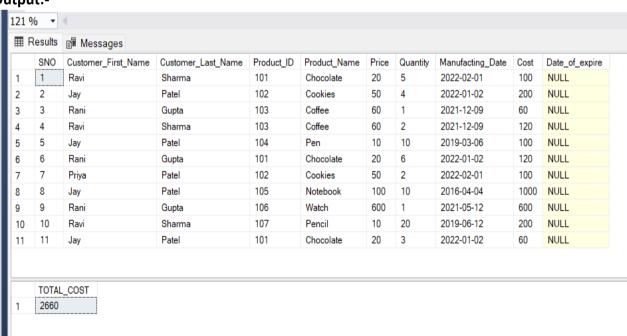


5. Add a column COST_QUANTITY. Write a query to calculate Cost/Quantity and return PRUDUCT_DETAIL. Calculate Total_Cost to all Product. Return Total_cost column name as TOTAL COST.

Program:-

```
ALTER TABLE Product_Details ADD COST_QUANTITY INT;
UPDATE Product_Details
SET COST_QUANTITY=Cost/Quantity;
SELECT * FROM Product_Details;
SELECT SUM(Cost) AS TOTAL_COST FROM Product_Details;
```

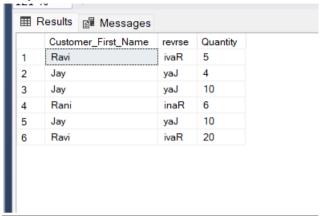
Output:-



6. Write a query to reverse Customer_First_Name column name as reverse and Quantity whose QTY>=4. Return Customer_First_Name, reverse and Quantity column.

Program:-

Output:-

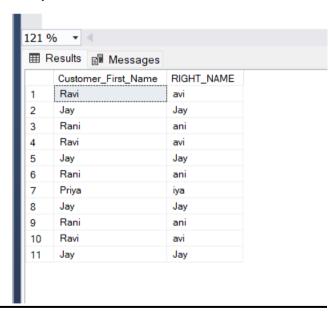


7. Return the Customer_First_ Name and right part of a character string with the three numbers of characters' column name as RIGHT_NAME from Customer_First_ Name attribute.

Program:-

```
SELECT Customer_First_Name,
RIGHT(Customer_First_Name,3) AS RIGHT_NAME
FROM Product_Details;
```

Output:-



8.	Add a column "FULL_NAME" Write a query to display full name of customer (format "Customer_First_Name Customer_Last_Name") in single attribute name as Customer_Full_Name whose Customer_Name length>=8 and Quantity >=3. Program:-
	Output:-
9.	Write a query to replace product_name "cookies" to "chocolate" and display count of customer who purchased chocolates (NOTE: use string function). Program:- Output:-
10.	Add Customer_First_Name column and Write a query to concate "Customer_First_Name" in lower case and "Customer_Last_Name" in upper case as Customer_full_name and count the total length of string\
	Program:-
	Output:-