DERIVED TABLES

Question

create a new table called Sales_order_info as a derived table from the above then it should have Product_ID ,Category, Sub_Category ,Product_Name ,Sales ,Quantity , per_quantity_price , sales_type ,Discount ,Profit , Loss
and follow the below pattern
1) product id should be in this format
ex FUR-BO-10001798 to 10001798
2) per_quantity_price should be output of Sales / Quantity of each customer records
3) sales_type should be 3 categories
if sales are higher than 1000 then 'Super'
if sales are higher than 400 but lesser than 1000 then 'Average'
if sales are lesser than 400 then 'low'
4)Loss will be 1 if profit is negative

Output:

Product_ID	Category	Sub_Category	Product_Name	Sales	Quantity	Per_Quantity_Price	Sales_type	Discount	Profit	Loss
10001798	Furniture	Bookcases	Bush Somerset Collection Bookcase	261.96	2	130.98	Low	0	41.9136	NULL
10000454	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...	731.94	3	243.98000000000002	Average	0	219.582	NULL
10000240	Office Supplies	Labels	Self-Adhesive Address Labels for Typewriters b...	14.62	2	7.31	Low	0	6.8714	NULL
10002365	Office Supplies	Paper	Xerox 1967	15.552	3	5.184	Low	0.2	5.4432	NULL
10003656	Office Supplies	Binders	Fellowes PB200 Plastic Comb Binding Machine	407.976	3	135.992	Average	0.2	132.5922	NULL
10000246	Office Supplies	Art	Newell 318	19.46	7	2.7800000000000002	Low	0	5.0596	NULL
10001492	Office Supplies	Appliances	Acco Six-Outlet Power Strip, 4' Cord Length	60.34	7	8.620000000000001	Low	0	15.6884	NULL
10004977	Technology	Phones	GE 30524EE4	1097.544	7	156.792	Super	0.2	123.4737	NULL
10003664	Furniture	Furnishings	Electrix Architect's Clamp-On Swing Arm Lamp, ...	190.92	5	38.184	Low	0.6	-147.963	1
10003479	Office Supplies	Storage	Eldon Base for stackable storage shelf, platinum	77.88	2	38.94	Low	0	3.894	NULL
10002167	Technology	Accessories	Imation 8gb Micro Traveldrive Usb 2.0 Flash Drive	45	3	15	Low	0	4.95	NULL

Query

```sql
CREATE TABLE Sales_order_info AS
SELECT
    substring(Product_ID,8)  as Product_ID ,
  Category,
  Sub_Category,
  Product_Name,
  Sales,
  Quantity,
  (Sales / Quantity ) as Per_Quantity_Price,
  case when Sales > 1000 then 'Super' when Sales >= 400 and Sales<= 1000 then 'Average' when Sales < 400 then 'Low' end as Sales_type,
  Discount,
  Profit,
  case when Profit < 0 then 1  end as Loss
  FROM sales_purchase_data;
```
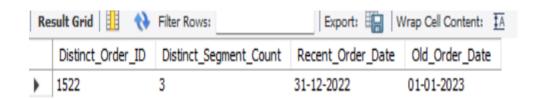
QUESTION

------Use single select statements to execute the below
5) Count of distinct order_ids in the sales_purchase_data_updated table
6) Count of Unique product names in Sales_order_info
7) Count of distinct Segments in the sales_purchase_data_updated table
8) Recent order date in sales_purchase_data_updated table
9)Old order date in sales_purchase_data_updated table
10) Customer info of all the columns for the maximum order date

OUTPUT:

Ans – 5,7,8,9

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Distinct_Order_ID	Distinct_Segment_Count	Recent_Order_Date	Old_Order_Date
▶	1522	3	31-12-2022	01-01-2023

Ans - 10

Row_ID	Order_ID	Order_Date	Ship_Date	Ship_Mode	Customer_ID	Customer_Name	Segment	Country	City	State	Postal_Code	Region	Produc
1153	CA-2023-160395	31-12-2022	06-01-2023	Standard Class	KL-16555	Kelly Lampkin	Corporate	United States	Reno	Nevada	89502	West	OFF-AR
1154	CA-2023-160395	31-12-2022	06-01-2023	Standard Class	KL-16555	Kelly Lampkin	Corporate	United States	Reno	Nevada	89502	West	OFF-BI-
2822	CA-2023-100202	31-12-2022	05-01-2023	Standard Class	BD-11620	Brian DeCherney	Consumer	United States	Anaheim	California	92804	West	TEC-PH
4613	US-2023-165953	31-12-2022	06-01-2023	Standard Class	EP-13915	Emily Phan	Consumer	United States	Jacksonville	Florida	32216	South	OFF-AR
4614	US-2023-165953	31-12-2022	06-01-2023	Standard Class	EP-13915	Emily Phan	Consumer	United States	Jacksonville	Florida	32216	South	OFF-PA
5739	CA-2023-156139	31-12-2022	06-01-2023	Standard Class	BP-11155	Becky Pak	Consumer	United States	San Francisco	California	94109	West	OFF-BI-
6342	US-2023-105830	31-12-2022	02-01-2023	First Class	DB-13660	Duane Benoit	Consumer	United States	Lancaster	Ohio	43130	East	OFF-ST

Ans: 6

	Product_Name_Unique_Count
	1419

QUERY

Ans – 5,7,8,9

SELECT

 COUNT(DISTINCT Order_ID) AS Distinct_Order_ID,

 COUNT(DISTINCT Segment) AS Distinct_Segment_Count ,

 max(Order_Date)AS Recent_Order_Date,

 min(Order_Date) as Old_Order_Date

  FROM sales_purchase_data;

Ans : 6

select COUNT(DISTINCT Product_Name) as
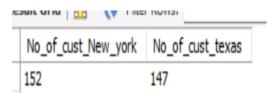Product_Name_Unique_Count from Sales_order_info;

Ans: 10

select * from sales_purchase_data where Order_Date = (select
max(Order_Date) from sales_purchase_data);

QUESTION

11) No .of Unique Customers from Texas and Newyork

o/p No_of_cust_texas | No_of_cust_New_york

Output

No_of_cust_New_york	No_of_cust_texas
152	147

Query

Select

Count(DISTINCT CASE WHEN State = 'New York' then Customer_Name end) as No_of_cust_New_york ,

Count(DISTINCT CASE WHEN State = 'Texas' then Customer_Name end) as No_of_cust_texas

from sales_purchase_data ;