FOOD & BEVERAGES SALES REPORT ANALYSIS

(using SQL)

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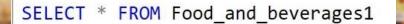


The objective is to extract meaningful insights that can help us understand sales trends and make informed business decisions.

In this project we will be discussing the sales performance of the company over the past three years (2019, 2020, and 2021). I have analyzed sales data using **SQL** queries to gain insights into product categories, sales channels, and team performance. The data used for this analysis comes from two CSV files: One containing Product information and the other containing Sales information.

To begin our analysis, I first loaded the data into <u>SQL Server</u> and rename the files name, Product to <u>Food_and_Beverages1</u> and Sales to <u>Food_and_Beverages2</u>.

Always familiar with your Data

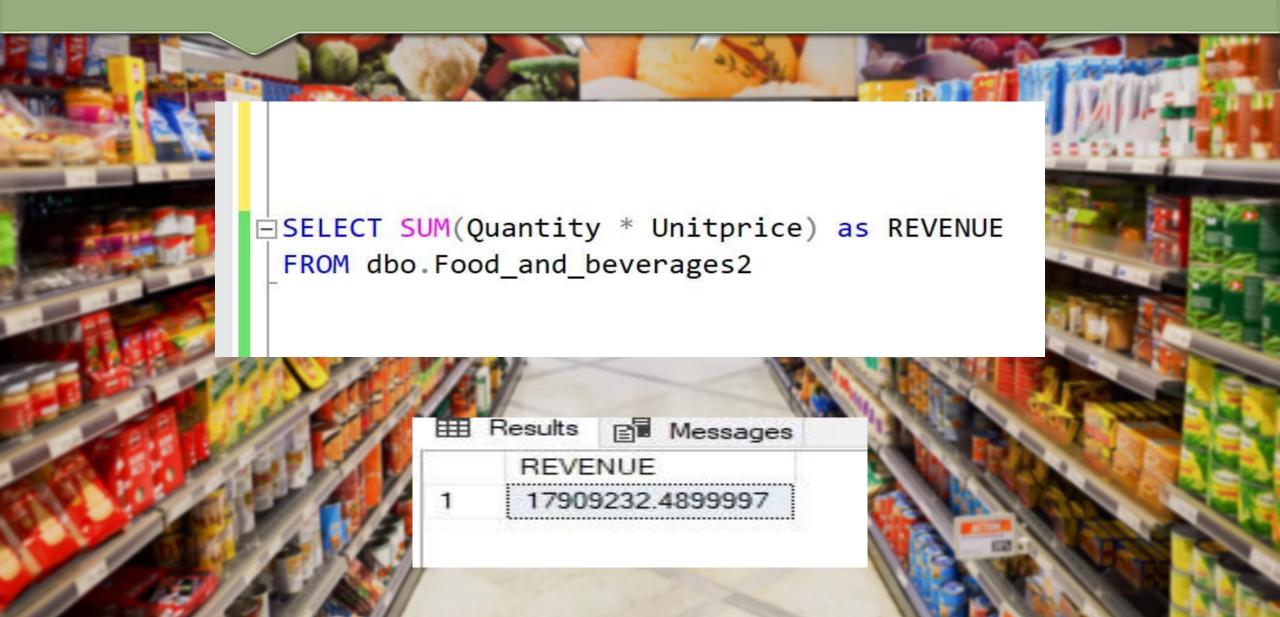


Ⅲ Results		Messages		
	ID	ProductName	ProductGroup	ProductCategory
1	108	Product 108	Ground Coffee	Food
2	111	Product 111	Vegetable	Food
3	114	Product 114	Spices	Food
4	118	Product 118	Spices	Food
5	120	Product 120	Spices	Food
6	142	Product 142	Ground Coffee	Food
7	143	Product 143	Ground Coffee	Food
8	144	Product 144	Ground Coffee	Food
9	145	Product 145	Ground Coffee	Food
10	146	Product 146	Oil	Food
11	157	Product 157	Powdered Milk	Food
12	158	Product 158	Powdered Milk	Food
13	159	Product 159	Coffee in Capsules	Food
14	168	Product 168	Coffee in Capsules	Food
15	175	Product 175	Oil	Food
16	176	Product 176	Oil	Food
17	180	Product 180	Oil	Food
18	183	Product 183	Vegetable	Food
19	186	Product 186	Vegetable	Food
20	187	Product 187	Vegetable	Food

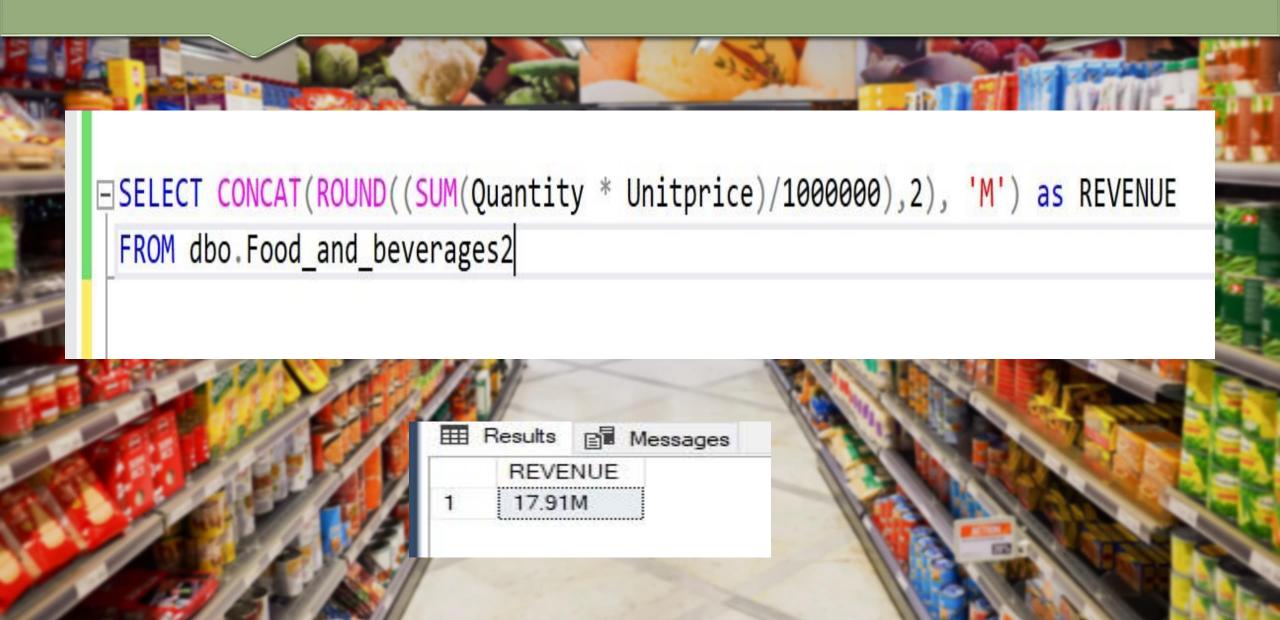
SELECT * FROM Food_and_beverages2

	OrderDate	OrderNumber	ProductKey	SalespersonKey	Salesperson	Supervisor	Manager	Channel	Quantity	UnitPrice
	2019-01-12 00:00:00.0000000	1492762	1420	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	4.44
	2019-01-12 00:00:00.0000000	1492762	1073	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	8.83
	2019-01-12 00:00:00.0000000	1492762	264	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	10	0.96
	2019-01-13 00:00:00.00000000	1492719	1154	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	2.92
i	2019-01-13 00:00:00.0000000	1492719	1527	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	2.81
	2019-01-13 00:00:00.0000000	1492719	1862	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	2.81
	2019-01-13 00:00:00.0000000	1492719	438	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	6	7.85
	2019-01-13 00:00:00.0000000	1492719	1468	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	8	5.69
	2019-01-13 00:00:00.00000000	1492719	1534	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	24	2.56
0	2019-01-13 00:00:00.0000000	1492719	203	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	24	1.73
1	2019-01-13 00:00:00.0000000	1492719	1216	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	30	1.16
2	2019-01-13 00:00:00.0000000	1492719	1132	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	10	2.07
3	2019-01-13 00:00:00.0000000	1492719	1131	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	10	2.07
4	2019-01-13 00:00:00.0000000	1492719	2232	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	10	1.6
5	2019-01-13 00:00:00.0000000	1492719	1609	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	10	1.61
6	2019-01-13 00:00:00.0000000	1492719	876	265	Julio Lima	Diogo Carvalho	Gabriel Azevedo	Distributor	12	1.96

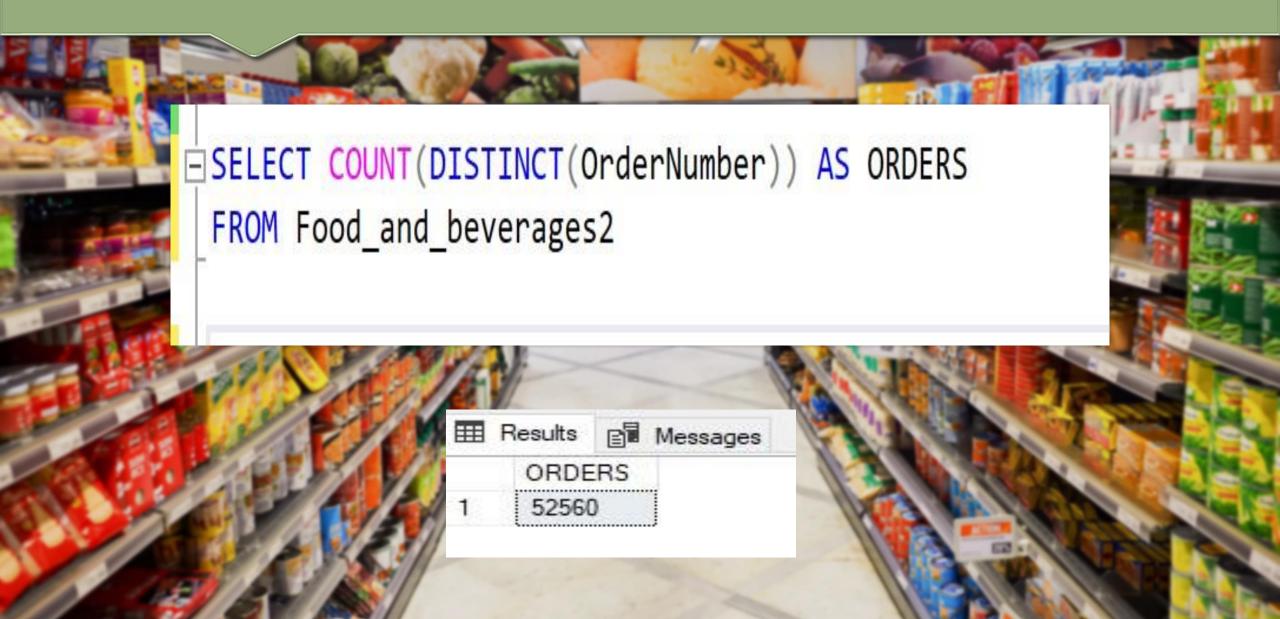
Question 1: Calculate Total Revenue.



Question 2: Calculate Total Revenue in Millions



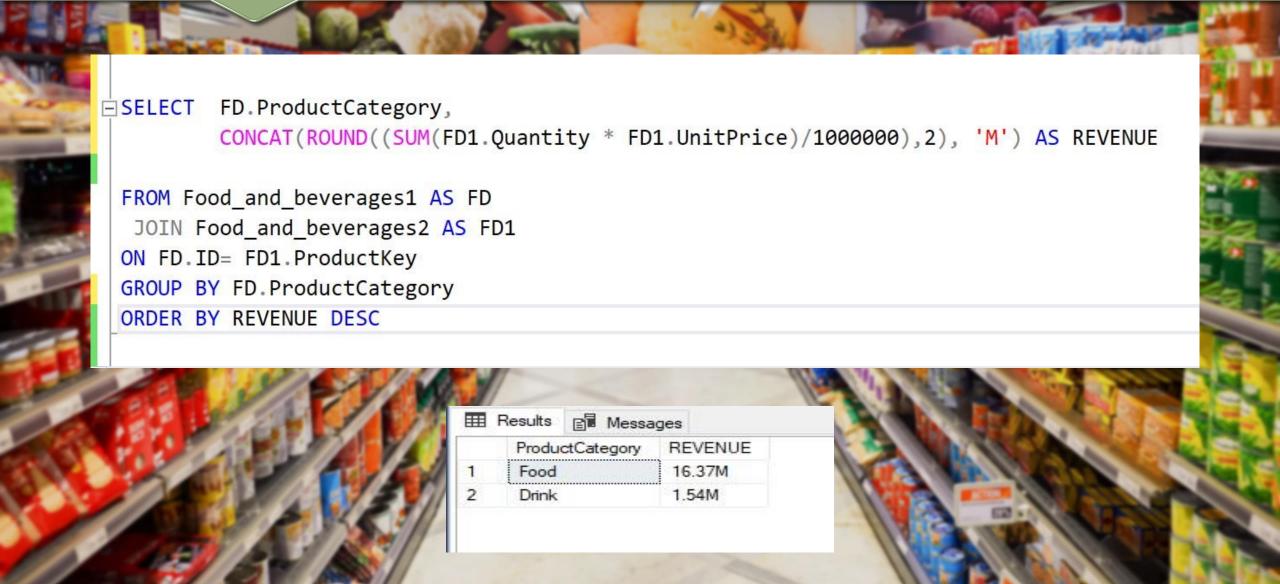
Question 3: What is the total number of Orders?



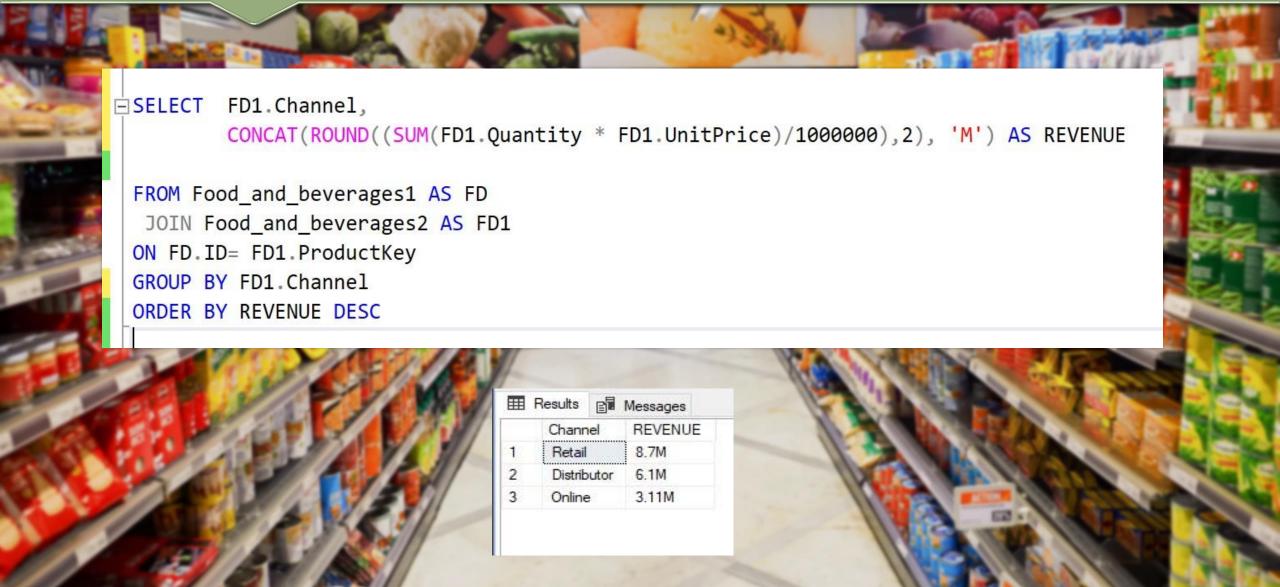
Question 4: What is the total revenue and order for each year?

```
□ SELECT DATENAME (YYYY, FD1. ORDERDATE) AS YEAR REVENUE ORDERS,
    CONCAT(ROUND((SUM(FD1.Quantity * FD1.UnitPrice))/1000000,2),' M') AS REVENUE,
    COUNT(DISTINCT(FD1.OrderNumber)) AS ORDERS
 FROM Food_and_beverages1 AS FD
 JOIN Food_and_beverages2 AS FD1
 ON FD.ID= FD1.ProductKey
 GROUP BY DATENAME(YYYY, FD1.ORDERDATE)
 ORDER BY YEAR_REVENUE_ORDERS;
                                               REVENUE
                                                       ORDERS
                              YEAR_REVENUE_ORDERS
                              2019
                                                6.65 M
                                                       17481
                              2020
                                                10.21 M
                                                       32065
                              2021
                                                1.05 M
                                                       3014
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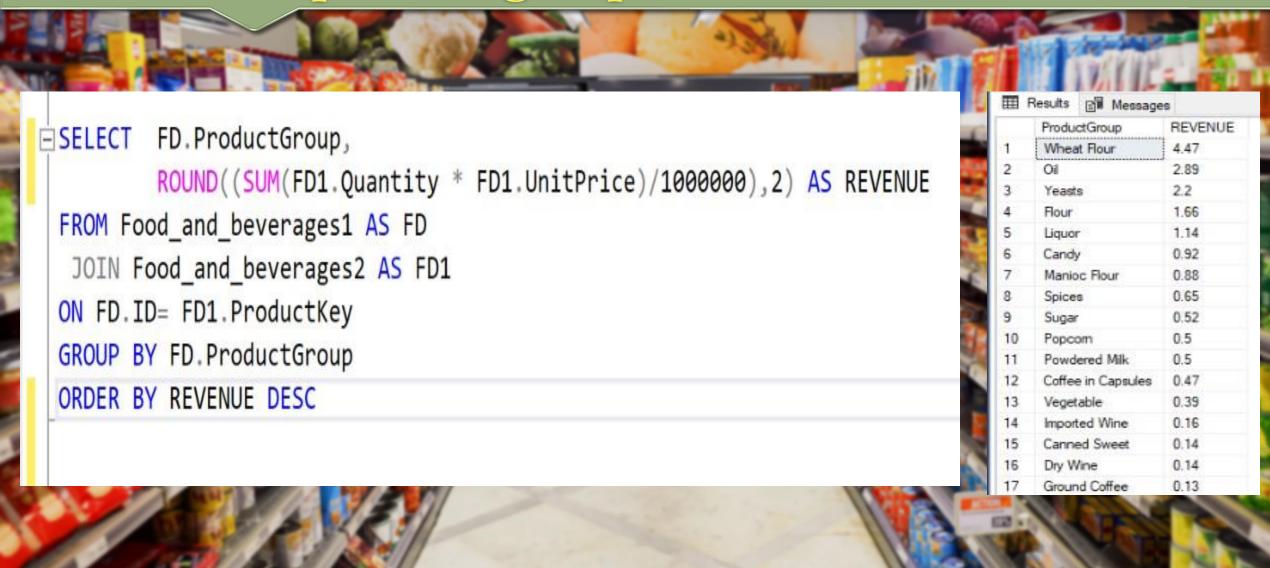
Question 5: What is the total revenue for each product category?



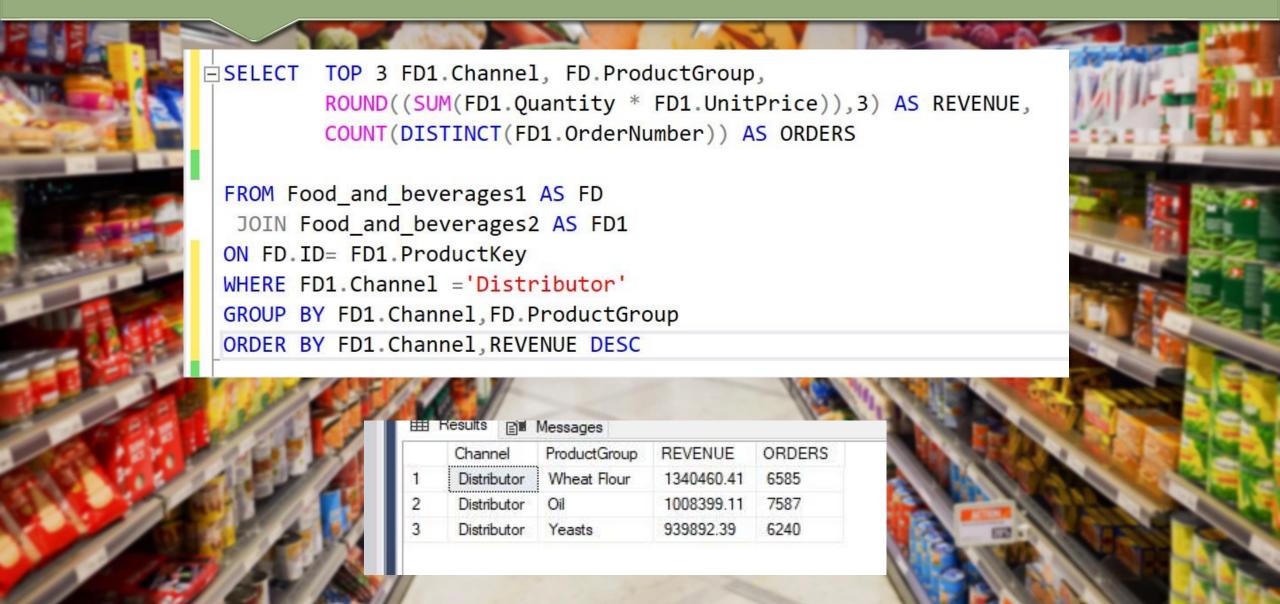
Question 6: What is the total revenue for each channel?



Question 7: What is the total revenue for each product group in Millions?



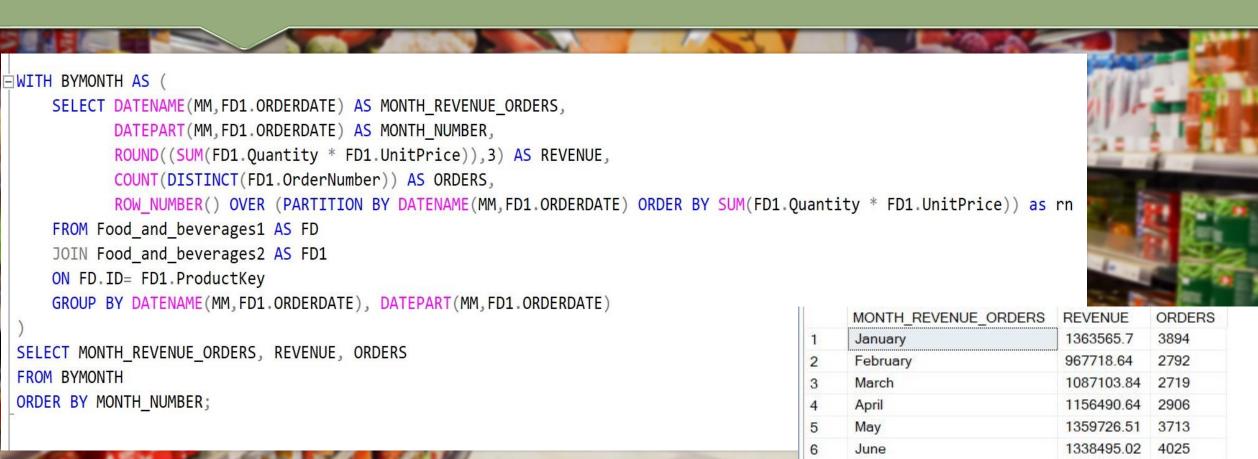
Question 8: Which is the top 3 product category in Distributor channel revenue wise?



Question 9: Which is the top 3 product category for all channel revenue wise?

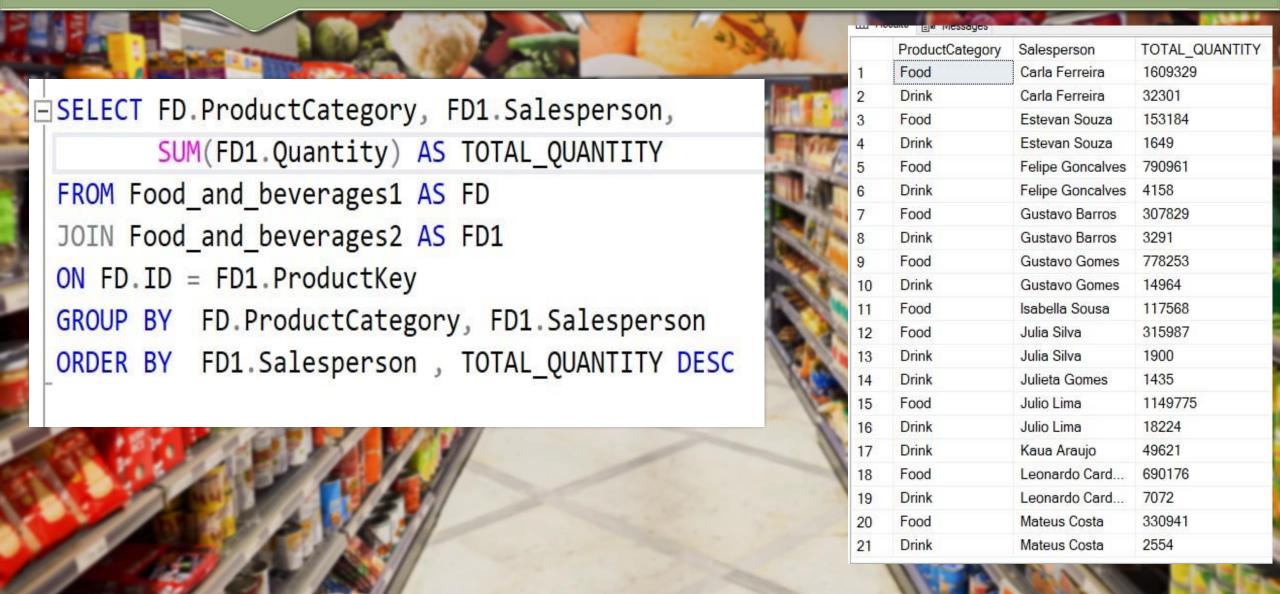
```
⊟WITH ChannelRevenue AS (
     SELECT FD1.Channel, FD.ProductGroup,
              ROUND((SUM(FD1.Quantity * FD1.UnitPrice)),3) AS REVENUE,
              COUNT(DISTINCT(FD1.OrderNumber)) AS ORDERS,
              ROW NUMBER() OVER (PARTITION BY FD1.Channel ORDER BY SUM(FD1.Quantity * FD1.UnitPrice) DESC) as rn
      FROM Food and beverages1 AS FD
      JOIN Food_and_beverages2 AS FD1
     ON FD.ID= FD1.ProductKey
     GROUP BY FD1. Channel, FD. ProductGroup
 SELECT Channel, ProductGroup, REVENUE, ORDERS
 FROM ChannelRevenue
 WHERE rn <= 3
                                                                REVENUE
                                                                           ORDERS
                                                     ProductGroup
                                            Channel
                                            Distributor
                                                     Wheat Flour
                                                                 1340460.41
                                                                           6585
                                            Distributor
                                                     Oil
                                                                 1008399.11
                                                                           7587
                                            Distributor
                                                                 939892.39
                                                     Yeasts
                                                                           6240
                                                     Wheat Flour
                                                                 873325.35
                                                                           5034
                                            Online
                                                                 652164.74
                                                     Oil
                                                                           6088
                                            Online
                                                                 373827 04
                                            Online
                                                     Flour
                                                                           1831
                                                     Wheat Flour
                                            Retail
                                                               2259455.08
                                                                           8216
                                                     Oil
                                                                 1229924.17
                                            Retail
                                                                           8279
                                            Retail
                                                                 912833.39
                                                                           5637
                                                     Yeasts
```

Question 10: What is the total revenue for month wise?

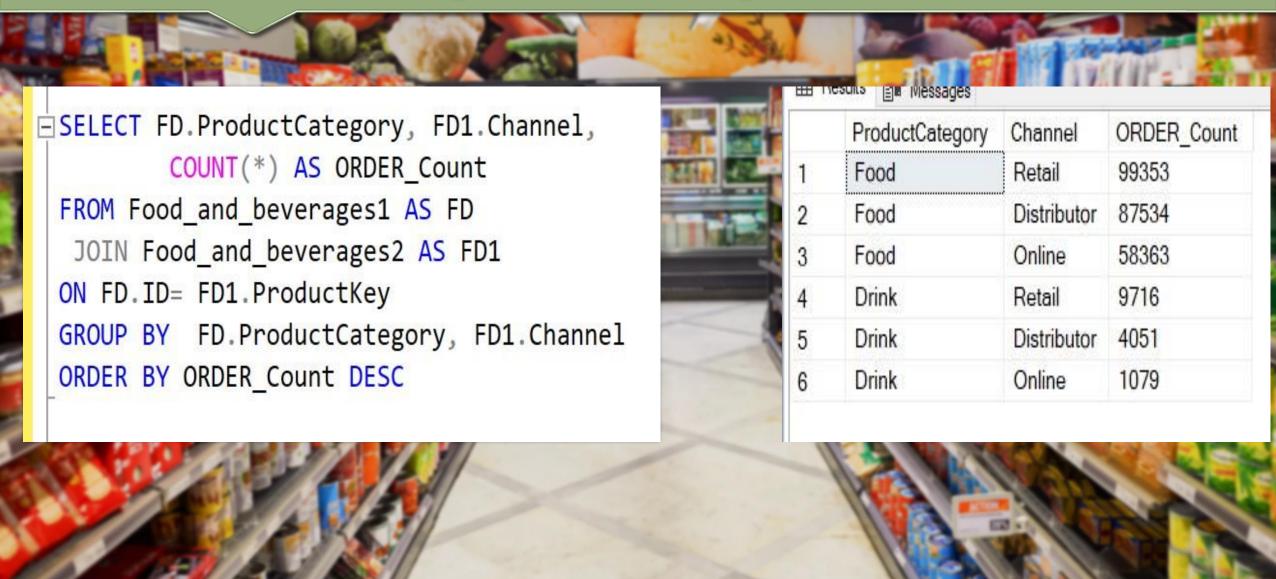


ELECT MONTH DEVENUE ODDEDC DEVENUE ODDEDC			<i>i</i>	
SELECT MONTH_REVENUE_ORDERS, REVENUE, ORDERS	2	February	967718.64	2792
ROM BYMONTH	3	March	1087103.84	2719
ORDER BY MONTH_NUMBER;	4	April	1156490.64	2906
	5	May	1359726.51	3713
	6	June	1338495.02	4025
	7	July	1563240.44	4688
	8	August	1703887.16	5141
	9	September	1892626.14	5608
	10	October	1957468.25	6105
	11	November	1803340.14	5834
	12	December	1715570.01	5135

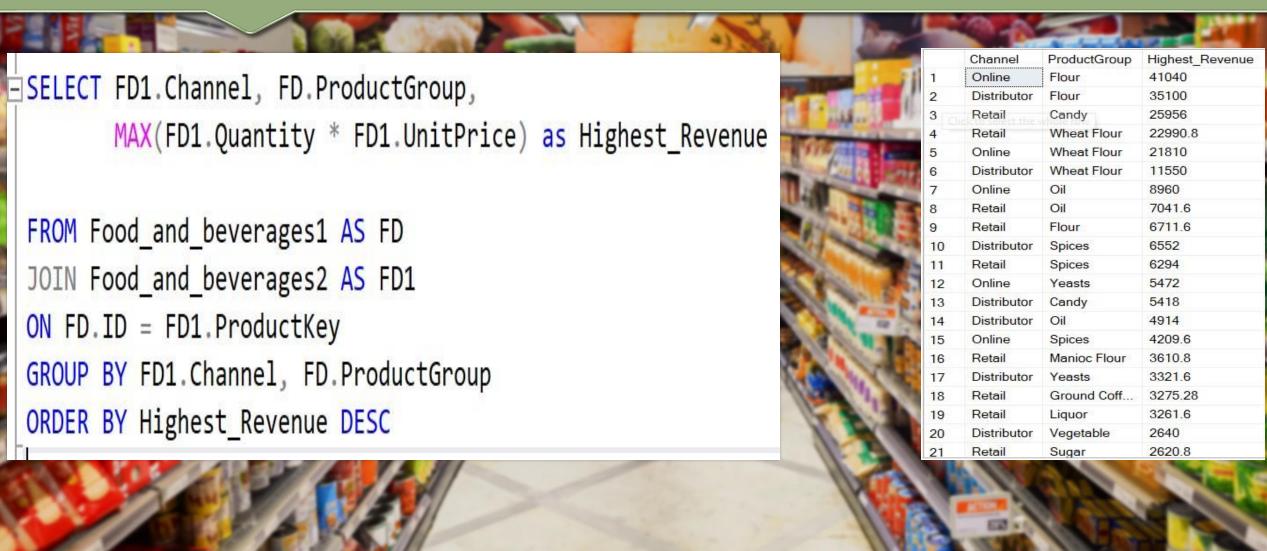
Question 11: Which salesperson sold the most units of each product category?



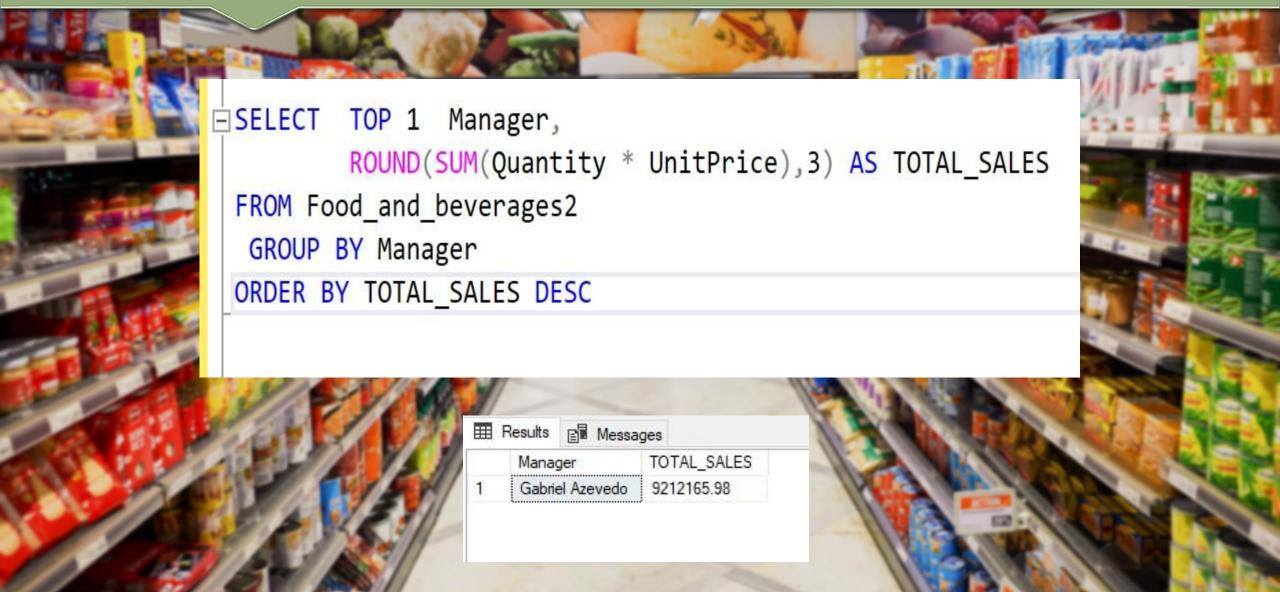
Question 12: What is the most popular channel for each product category?



Question 13: Which product has the highest sales in terms of revenue in each channel?



Question 14: Which manager's team has the highest sales?



Question 15: Who is the salesperson with the highest total sales?

