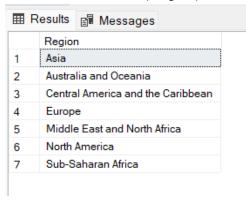
Analysing Amazon Sales SQL Queries

-----SALES OVERVIEW------

(Regions)

1. List of distinct regions covered in Amazon's sales data?

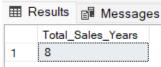
SELECT DISTINCT(Region) FROM [dbo].[Amazon Sales data]



(Total Sales Year)

2. Count of the total number of years covered in Amazon sales data?

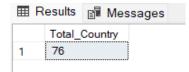
SELECT COUNT(DISTINCT(Order_Year)) AS Total_Sales_Years FROM [dbo].[Amazon Sales data]



(Total Countries)

3. Count of the total number of countries involved in Amazon sales?

SELECT COUNT(DISTINCT(Country)) AS Total_Country FROM [dbo].[Amazon Sales data]



(Total Items)

4.Count of the total number of distinct items available for sale on Amazon?

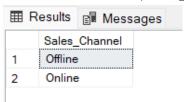
SELECT COUNT(DISTINCT(Item_type)) AS Total_Items FROM [dbo].[Amazon Sales data]



(Sales Mode)

5. Different sales modes (sales channel) available?

SELECT DISTINCT(Sales_Channel) AS Sales_Channel FROM [dbo].[Amazon Sales data]

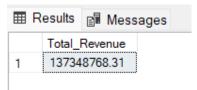


------REVENUE AND PROFIT—------REVENUE AND PROFIT—------

(Total Revenue)

6. Sum of the total revenue generated across all sales?

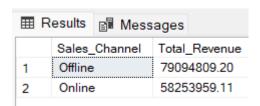
SELECT SUM(Total_Revenue) AS Total_Revenue FROM [dbo].[Amazon Sales data]



(Revenue by Sales Mode)

7. Total Revenue generated by different sales modes?

```
SELECT Sales_Channel,
SUM(Total_Revenue) AS Total_Revenue
FROM [dbo].[Amazon Sales data]
GROUP BY Sales_Channel
ORDER BY SUM(Total_Revenue) DESC
```



(Most sold item by Sales Mode)

8. The most sold item in each sales mode?

```
WITH cte

AS (SELECT Sales_Channel,

Item_Type,

Sum(Units_Sold)

Rank()

OVER(

partition BY Sales_Channel
```

```
ORDER BY Sum(Units_Sold) DESC) Ranking
         FROM [dbo].[amazon sales data]
         GROUP BY Sales_Channel,
                   Item_Type)
 SELECT Sales Channel,
         Item_Type,
         Unit_Sold
 FROM cte
 WHERE ranking = 1
Sales_Channel
                           Unit_Sold
                  Item_Type
     Offline
                  Household 44445
1
                  Cosmetics
2
     Online
                            41969
```

(Least sold item by Sales Mode)

9. The least sold item in each sales mode?

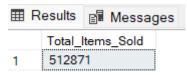
```
WITH cte
     AS (SELECT Sales_Channel,
                 Item Type,
                 Sum(Units_Sold)
                                          AS Unit_Sold,
                 Rank()
                   OVER(
                      partition BY Sales_Channel
                     ORDER BY Sum(Units_Sold) ASC) Ranking
         FROM [dbo].[amazon sales data]
         GROUP BY Sales_Channel,
                    Item_Type)
 SELECT Sales_Channel,
         Item Type,
         Unit_Sold
 FROM cte
 WHERE ranking = 1
```



(Total Items Sold)

10. Sum of the total number of sold items?

SELECT SUM(Units_Sold) AS Total_Items_Sold FROM [dbo].[Amazon Sales data]



(Total Cost of Sold Items)

11. Sum of the total cost of all sold items?

SELECT SUM(Total_Cost) Total_cost_of_all_sold_items AS FROM [dbo].[Amazon Sales data]



-----PRICES INSIGHTS AND PROFIT MARGIN------

(Items and Selling Prices)

12. List of distinct items and their selling prices?

SELECT DISTINCT(Item_Type) AS Item_Name,
Selling_Price AS Price

FROM [dbo].[Amazon Sales data]

■ Results			
	Item_Name	Selling_Price	
1	Baby Food	255.28	
2	Beverages	47.45	
3	Cereal	205.70	
4	Clothes	109.28	
5	Cosmetics	437.20	
6	Fruits	9.33	
7	Household	668.27	
8	Meat	421.89	
9	Office Supplies	651.21	
10	Personal Care	81.73	
11	Snacks	152.58	
12	Vegetables	154.06	

(Items and Actual Prices)

13. List of distinct items and their actual prices?

SELECT DISTINCT(Item_Type) AS Item_Name, Unit_Cost AS Actual_Price

FROM [dbo].[Amazon Sales data]

⊞ Results		
	Item_Name	Actual_Price
1	Baby Food	159.42
2	Beverages	31.79
3	Cereal	117.11
4	Clothes	35.84
5	Cosmetics	263.33
6	Fruits	6.92
7	Household	502.54
8	Meat	364.69
9	Office Supplies	524.96
10	Personal Care	56.67
11	Snacks	97.44
12	Vegetables	90.93

(Gross Profit Margin)

14. List of items sorted from highest to lowest profitability?

⊞ Results			
	Item_Name	Profit	
1	Cosmetics	173.87	
2	Household	165.73	
3	Office Supplies	126.25	
4	Baby Food	95.86	
5	Cereal	88.59	
6	Clothes	73.44	
7	Vegetables	63.13	
8	Meat	57.20	
9	Snacks	55.14	
10	Personal Care	25.06	
11	Beverages	15.66	
12	Fruits	2.41	

(Profit Margin)

15. List of items sorted from highest to lowest of profit margin?

SELECT Item_Type,

FORMAT(SUM(Total_Profit) / SUM(Total_Revenue) * 100, '0.00') + '%' AS Profit_Margin

FROM [dbo].[Amazon Sales data]

GROUP BY Item_Type

ORDER BY Profit Margin DESC

⊞ Results			
	Item_Type	Profit_Margin	
1	Clothes	67.20%	
2	Cereal	43.07%	
3	Vegetables	40.98%	
4	Cosmetics	39.77%	
5	Baby Food	37.55%	
6	Snacks	36.14%	
7	Beverages	33.00%	
8	Personal Care	30.66%	
9	Fruits	25.83%	
10	Household	24.80%	
11	Office Supplies	19.39%	
12	Meat	13.56%	

(Most Expensive Item)

16. The most expensive item on Amazon?

SELECT DISTINCT(Item_Type),

Unit_Price AS Price

FROM [dbo].[Amazon Sales data]

WHERE Unit_Price=(SELECT MAX(CONVERT(DECIMAL(10,2), Unit_Price))

FROM [dbo].[Amazon Sales data])



(Cheapest Item)

17. The cheapest item on Amazon?

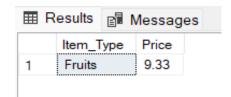
SELECT DISTINCT(Item_Type),

Unit_Price AS Price

FROM [dbo].[Amazon Sales data]

WHERE Unit_Price=(SELECT MIN(CONVERT(DECIMAL(10,2), Unit_Price))

FROM [dbo].[Amazon Sales data])



------DELIVERY PERFORMANCE—------

(Average Delivery Days)

18. Average delivery days for each item type?

```
WITH cte

AS (SELECT Item_Type,

DATEDIFF(day, Order_Date, Ship_Date) AS Day_Take
FROM [dbo].[Amazon Sales data])

SELECT Item_Type,

AVG(Day_Take) AS Average_delivery_day

FROM cte

GROUP BY Item_Type

ORDER BY AVG(Day_Take) ASC
```

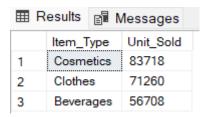
⊞F	Results 📑 Mes	sages
	Item_Type	Average_delivery_day
1	Snacks	9
2	Personal Care	19
3	Office Supplies	20
4	Cereal	21
5	Beverages	22
6	Cosmetics	23
7	Household	23
8	Vegetables	24
9	Meat	25
10	Baby Food	25
11	Fruits	26
12	Clothes	29

-----SALES ANALYTICS------

(Top 3 Most Sold Items throughout Amazon Sales)

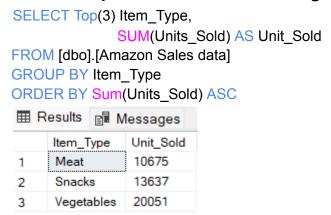
19. List of top 3 most sold items throughout Amazon sales?

```
SELECT Top(3) Item_Type,
SUM(Units_Sold) AS Unit_Sold
FROM [dbo].[Amazon Sales data]
GROUP BY Item_Type
ORDER BY Sum(Units_Sold) DESC
```



(Top 3 Least Sold Items throughout Amazon Sales)

20. List of top 3 least sold items throughout Amazon sales?



(Most Sold Item by Each Country)

21. Most sold item by each country?

```
WITH cte
     AS (SELECT Country,
                 Item_Type,
                 Sum(Units_Sold)
                                        AS Total_Sold,
                 Dense rank()
                   OVER(
                       partition BY Country
                       ORDER BY Sum(Units_Sold) DESC) Ranking
          FROM [dbo].[amazon sales data]
          GROUP BY Country,
                     Item Type)
SELECT Country,
        Item_Type
FROM cte
WHERE Ranking = 1
```

	Country	Item_Type	⊞ F	Results 📳 Message
1	Albania	Clothes		Country
2	Angola	Household	36	Lithuania
3	Australia	Beverages	37	Macedonia
4	Austria	Cosmetics	38	Madagascar
5	Azerbaijan	Cosmetics	39	Malaysia
6	Bangladesh	Clothes	40	Mali
7	Belize	Clothes	41	Mauritania
8	Brunei	Office Supplies	42	Mexico
9	Bulgaria	Office Supplies	43	Moldova
10	Burkina Faso	Vegetables	44	Monaco
11	Cameroon	Office Supplies	45	Mongolia
12	Cape Verde	Clothes	46	Mozambique
13	Comoros	Cereal	47	Myanmar
14	Costa Rica	Personal Care	48	New Zealand
15	Cote d'Ivoire	Clothes	49	Nicaragua
16	Democratic Republic of the Congo	Beverages	50	Niger
17	Djibouti	Cereal	51	Norway
18	East Timor	Meat	52	Pakistan
19	Federated States of Micronesia	Beverages	53	Portugal
20	Fiji	Clothes	54	Republic of the Congo
21	France	Cosmetics	55	Romania
22	Gabon	Personal Care	56	Russia
23	Grenada	Cereal	57	Rwanda
24	Haiti	Cosmetics	58	Samoa
25	Honduras	Household	59	San Marino
26	Iceland	Cosmetics	60	Sao Tome and Princip
27	Iran	Cosmetics	61	Saudi Arabia
28	Kenva	Vegetables	62	Senegal Sierra Leone
29	Kiribati	Fruits	63	Slerra Leone Slovakia
30	Kuwait	Fruits	65	Slovakia
31	Kyrgyzstan	Vegetables	66	Solomon Islands
32	Laos	Vegetables	67	South Sudan
33	Lebanon	Clothes	68	Spain
33 34	Lesotho	Fruits	69	Sri Lanka
34 35	Libya	Clothes	70	Switzerland

Item_Type
Office Supplies
Clothes
Clothes
Fruits
Fruits

Office Supplies
Personal Care
Personal Care
Baby Food
Personal Care
Household
Household
Fruits
Beverages
Personal Care
Baby Food
Cosmetics
Baby Food
Personal Care

Cosmetics
Office Supplies
Office Supplies
Cosmetics
Baby Food
Fruits

Cereal
Cereal
Office Supplies
Vegetables
Beverages
Baby Food
Personal Care
Household
Cosmetics
Cosmetics

71	Syria	Fruits
72	The Gambia	Baby Food
73	Turkmenistan	Office Supplies
74	Tuvalu	Baby Food
75	United Kingdom	Household
76	Zambia	Snacks

(Least Sold Item by Each Country)

22. Most sold item by each country?

```
WITH cte
     AS (SELECT Country,
                 Item_Type,
                 Sum(Units_Sold)
                                 AS Total_Sold,
                 Dense_rank()
                   OVER(
                      partition BY Country
                      ORDER BY Sum(Units_Sold) ASC) Ranking
          FROM [dbo].[amazon sales data]
          GROUP BY Country,
                    Item_Type)
SELECT Country,
       Item_Type
FROM cte
WHERE Ranking = 1
```

	Country	Item_Type	- r) a sulta	_8	
1	Albania	Clothes		Results	■ Messages	
2	Angola	Household		Countr	•	Item_Type
3	Australia	Cereal	36	Lithua	···-	Office Supplie
4	Austria	Cosmetics	37	Mace		Clothes
5	Azerbaijan	Office Supplies	38		gascar	Clothes
6	Bangladesh	Clothes	39	Malay	rsia	Fruits
7	Belize	Clothes	40	Mali		Clothes
В	Brunei	Office Supplies	41	Mauri		Office Supplie
9	Bulgaria	Clothes	42	Mexic	_	Household
10	Burkina Faso	Vegetables	43	Moldo		Personal Care
11	Cameroon	Beverages	44	Mona		Baby Food
12	Cape Verde	Clothes	45	Mong		Personal Care
13	Comoros	Cereal	46		mbique	Household
	Costa Rica	Personal Care	47	Myanı		Clothes Fruits
14	Costa Nica Cote d'Ivoire	Clothes	48	Nicara	Zealand	
15			49		agua	Beverages Personal Care
16	Democratic Republic of the Congo	Beverages	50 51	Niger Norwa	207	Beverages
17	Djibouti	Cosmetics	52	Pakist	•	Cosmetics
18	East Timor	Meat	53	Portug		Baby Food
19	Federated States of Micronesia	Beverages	54	_	blic of the Congo	Personal Care
20	Fiji	Clothes	55	Roma		Cosmetics
21	France	Cosmetics	56	Russia	···-	Office Supplie
22	Gabon	Personal Care	57	Rwan	_	Cosmetics
23	Grenada	Cereal	58	Samo		Cosmetics
24	Haiti	Cosmetics	59		Marino	Baby Food
25	Honduras	Snacks	60		ome and Principe	Beverages
26	Iceland	Cosmetics	61		Arabia	Cereal
27	Iran	Cosmetics	62	Sened		Cereal
28	Kenya	Vegetables	63	-	Leone	Vegetables
29	Kiribati	Fruits	64	Sloval	kia	Vegetables
30	Kuwait	Fruits	65	Slover	nia	Beverages
31	Kyrgyzstan	Vegetables	66		non Islands	Baby Food
32	Laos	Vegetables	67	South	Sudan	Personal Care
33	Lebanon	Clothes	68	Spain		Household
34	Lesotho	Fruits	69	Sri La	nka	Cosmetics
35	Libya	Fruits	70	Switze	erland	Personal Care

71	Syria	Fruits
72	The Gambia	Cereal
73	Turkmenistan	Household
74	Tuvalu	Baby Food
75	United Kingdom	Household
76	Zambia	Snacks

(Total Sold Items by Region)

23. Highest to lowest total sold items by region?

```
SELECT Region,
SUM(Units_Sold) AS Total_Sold_Items
FROM [dbo].[Amazon Sales data]
GROUP BY Region
ORDER BY Total_Sold_Items DESC
```

⊞ Results			
	Region	Total_Sold_Items	
1	Sub-Saharan Africa	182870	
2	Europe	98117	
3	Australia and Oceania	68325	
4	Asia	59967	
5	Middle East and North Africa	48678	
6	Central America and the Caribbean	35771	
7	North America	19143	

(Most Sold Item by Region)

24. Find the most sold item by each region?

WHERE Ranking=1

```
WITH cte

AS (SELECT Region,

Item_Type,

SUM(Units_Sold) AS Unit_Sold,

DENSE_rank()

OVER(partition BY Region

ORDER BY SUM(Units_Sold) DESC) Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Region, Item_Type)

SELECT Region,

Item_Type,

Unit_Sold

FROM cte
```

⊞R	■ Results				
	Region	Item_Type	Unit_Sold		
1	Asia	Clothes	14193		
2	Australia and Oceania	Beverages	18768		
3	Central America and the Caribbean	Household	8974		
4	Europe	Cosmetics	30100		
5	Middle East and North Africa	Cosmetics	23615		
6	North America	Personal Care	12189		
7	Sub-Saharan Africa	Fruits	31167		

(Least Sold Item by Region)

25. Find the least sold item by each region?

```
WITH cte

AS (SELECT Region,

Item_Type,

SUM(Units_Sold) AS Unit_Sold,

DENSE_rank()

OVER(partition BY Region

ORDER BY SUM(Units_Sold) ASC) Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Region, Item_Type)

SELECT Region,

Item_Type,

Units_Sold

FROM cte WHERE Ranking=1
```

■F	⊞ Results				
	Region	Item_Type	Unit_Sold		
1	Asia	Vegetables	3856		
2	Australia and Oceania	Cereal	682		
3	Central America and the Caribbean	Cosmetics	1705		
4	Europe	Vegetables	171		
5	Middle East and North Africa	Office Supplies	2021		
6	North America	Household	6954		
7	Sub-Saharan Africa	Meat	4767		

(Total Revenue generated by Region)

26. Highest to lowest revenue generated region?

```
WITH cte

AS (SELECT Region,

Item_Type,

SUM(Total_Revenue) AS total_revenue,

DENSE_rank()

OVER(partition BY Region

ORDER BY SUM(Total_Revenue) DESC) Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Region, Item_Type)

SELECT Region,

total_revenue

FROM cte

WHERE Ranking=1
```

⊞ F	Results 🗐 Messages	
	Region	total_revenue
1	Asia	8072701.60
2	Australia and Oceania	4220728.80
3	Central America and the Caribbean	5997054.98
4	Europe	13159720.00
5	Middle East and North Africa	10324478.00
6	North America	4647149.58
7	Sub-Saharan Africa	10582813.71

(Total Profit by Region)

27. Highest to lowest profit region?

```
WITH cte

AS (SELECT Region,

Item_Type,

SUM(Total_Profit) AS total_profit,

DENSE_rank()

OVER(partition BY Region

ORDER BY SUM(Total_Profit) DESC) Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Region, Item_Type)

SELECT Region,

total_profit

FROM cte

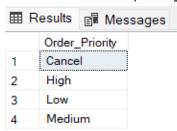
WHERE Ranking=1
```



(Types of Order Priority)

28. List of distinct Order Priorities?

SELECT DISTINCT(Order Priority) FROM [dbo].[Amazon Sales data]



1

Cosmetics

(Highest Sold Item for High Priority)

29. Most highest priority item of all time in the online and offline market?

WITH cte

AS (SELECT Item_Type
FROM [dbo].[Amazon Sales data]
WHERE Order_Priority = 'High')

SELECT TOP(1) Item_Type
FROM cte
GROUP BY Item_Type
ORDER BY COUNT(*) DESC

Results
Messages

Item_Type

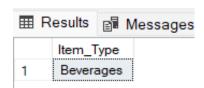
(Highest Sold Item for Cancel Priority)

30. Most Cancel priority item of all time in online and offline market?

WITH cte

AS (SELECT Item_Type
FROM [dbo].[Amazon Sales data]
WHERE Order Priority = 'Cancel')

```
SELECT TOP(1) Item_Type
FROM cte
GROUP BY Item_Type
ORDER BY COUNT(*) DESC
```



(High Priority)

31. Highest to lowest sold items for Higher Priority?

WITH cte

AS (SELECT * FROM [dbo].[Amazon Sales data] WHERE Order_Priority = 'High')

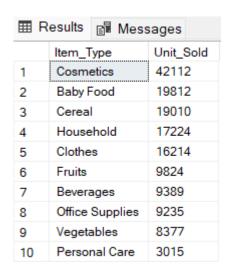
SELECT Item_Type,

SUM(Units_Sold) AS Unit_Sold

FROM cte

GROUP BY Item_Type

ORDER BY Unit_Sold DESC



(Cancel Priority)

32. Highest to lowest sold items for Cancel Priority?

```
WITH cte

AS (SELECT * FROM [dbo].[Amazon Sales data] WHERE Order_Priority = 'Cancel')

SELECT Item_Type,

SUM(Units_Sold) AS Unit_Sold

FROM cte

GROUP BY Item_Type

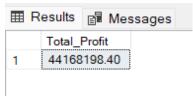
ORDER BY Unit_Sold DESC
```



(Total Profit)

33. Sum of the total profit generated from sales?

SELECT SUM(Total_Profit) AS Total_Profit FROM [dbo].[Amazon Sales data]



(Top 5 Countries with Highest Profit)

34. List of top 5 countries with the highest profit?

```
WITH cte

AS(SELECT Country,

SUM(Total_Profit) AS Total_Profit,

Rank()

OVER(Order BY SUM(Total_Profit) DESC) AS Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Country)

SELECT Country,

Total_Profit

FROM cte

WHERE Ranking IN (1,2,3,4,5)
```

⊞ F	Results 📳	Messages
	Country	Total_Profit
1	Djibouti	2425317.87
2	Myanmar	1802771.70
3	Pakistan	1719922.04
4	Samoa	1678540.98
5	Honduras	1609947.52

(Top 5 Countries with Highest Revenue)

35. List of top 5 countries with the highest Revenue?

```
WITH cte
     AS(SELECT Country,
                SUM(Total_Revenue) AS Total_Revenue,
                Rank()
                  OVER(Order BY SUM(Total_Revenue) DESC) AS Ranking
        FROM [dbo].[Amazon Sales data]
        GROUP BY Country)
SELECT Country,
        Total_Revenue
FROM cte
WHERE Ranking IN (1,2,3,4,5)
Total_Revenue
    Country
     Honduras
                 6336545.48
1
2
     Myanmar
                 6161257.90
                6052890.86
3
     Djibouti
    Turkmenistan 5822036.20
     Mexico
                 5643356.55
5
```

(Top 5 Countries with Lowest Profit)

36. List of top 5 countries with the lowest profit?

```
WITH cte

AS(SELECT Country,

SUM(Total_Profit) AS Total_Profit,

Rank()

OVER(Order BY SUM(Total_Profit) ASC) AS Ranking

FROM [dbo].[Amazon Sales data]

GROUP BY Country)

SELECT Country,

Total_Profit

FROM cte
```

WHERE Ranking IN (1,2,3,4,5)

⊞ Results						
	Country	Total_Profit				
1	Kuwait	1258.02				
2	New Zealand	5270.67				
3	Kyrgyzstan	7828.12				
4	Syria	9119.44				
5	Slovakia	10795.23				

(Top 5 Countries with Lowest Revenue)

37. List of top 5 countries with the lowest Revenue?

```
WITH cte
     AS(SELECT Country,
                SUM(Total Revenue) AS Total Revenue,
                Rank()
                  OVER(Order BY SUM(Total_Revenue) ASC) AS Ranking
        FROM [dbo].[Amazon Sales data]
        GROUP BY Country)
SELECT Country,
        Total Revenue
FROM cte
WHERE Ranking IN (1,2,3,4,5)
Country
                 Total_Revenue
     Kuwait
                 4870.26
2
     Kyrgyzstan
                 19103.44
     New Zealand 20404.71
     Slovakia
                 26344.26
5
     Syria
                 35304.72
```

(Profit by Sales Mode)

38. Total profit generated by different sales modes?

```
SELECT Sales_Channel,
SUM(Total_Profit) AS Total_Profit
FROM [dbo].[Amazon Sales data]
GROUP BY Sales_Channel
ORDER BY SUM(Total_Profit) DESC
```



(Most Profitable Item by Sales Mode)

39. The most profitable item in each sales mode?

```
WITH cte
      AS (SELECT Sales_Channel,
                   Item_Type,
                   Sum(Total Profit)
                                            AS Total Profit,
                   Rank()
                      OVER(
                       partition BY Sales_Channel
                       ORDER BY Sum(Total_Profit) DESC) Ranking
           FROM [dbo].[amazon sales data]
           GROUP BY Sales_Channel,
                        Item_Type)
  SELECT Sales_Channel,
          Item_Type,
          Total Profit
  FROM cte
  WHERE ranking = 1
■ Results  Messages
    Sales_Channel
                  Item_Type Total_Profit
     Offline
                  Household 7365869.85
1
2
     Online
                  Cosmetics 7297150.03
```

(Least Profitable Item by Sales Mode)

40. The least profitable item in each sales mode?

Item_Type,
Total_Profit
FROM cte
WHERE ranking = 1

⊞ R	Results	₽ Mess	ages	
	Sales	Channel	Item_Type	Total_Profit
1	Offline		Fruits	33508.64
2	Online	;	Household	46735.86

-----YEARLY ANALYSIS------

(Yearly Total Profit)

41. Total profit for each year?

SELECT Order_Year, SUM(Total_Profit) AS total_profit FROM [dbo].[Amazon Sales data] GROUP BY Order_Year Order BY total_profit DESC

III	Results 📳 N	lessages
	Order_Year	total_profit
1	2012	9213010.12
2	2013	6715420.04
3	2010	6629567.43
4	2014	5879461.68
5	2016	4903838.01
6	2017	4089353.45
7	2015	3996539.44
8	2011	2741008.23

(Yearly Revenue)

42. Total revenue generated for each year?

SELECT Order_Year AS Year,
SUM(Total_Revenue) AS Revenue
FROM [dbo].[Amazon Sales data]

GROUP BY Order_Year

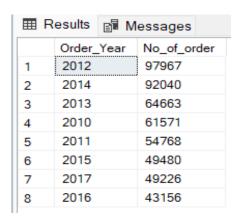
ORDER BY Revenue DESC

⊞ F	Results	
	Year	Revenue
1	2012	31898644.52
2	2013	20330448.66
3	2010	19186024.92
4	2014	16630214.43
5	2017	13373419.63
6	2015	12427982.86
7	2016	12372867.22
8	2011	11129166.07

(Highest Number of Orders)

43. Highest to lowest number of orders for each year?

```
SELECT Order_Year,
SUM(Units_Sold) AS No_of_order
FROM [dbo].[Amazon Sales data]
GROUP BY Order_Year
ORDER BY No_of_order DESC
```



(Most Sold Item Each Year)

44. The most sold item in each individual year?

```
WITH cte

AS(SELECT Order_Year,
Item_Type,
Sum(Units_Sold) AS Unit_Sold,
Rank()
OVER(
partition BY Order_Year
ORDER BY Sum(Units_Sold) DESC) AS Ranking
FROM [dbo].[amazon sales data]
GROUP BY Order_Year,
Item_Type)
```

```
SELECT Order_Year AS Year, Item_Type
FROM cte
WHERE ranking = 1
ORDER BY order_year DESC
```



(Least Sold Item Each Year)

45. The least sold item in each individual year?

```
WITH cte
    AS(SELECT Order_Year,
                Item_Type,
                Sum(Units_Sold)
                                AS Unit_Sold,
                Rank()
                  OVER(
                  partition BY Order_Year
                  ORDER BY Sum(Units_Sold) ASC) AS Ranking
         FROM [dbo].[amazon sales data]
         GROUP BY Order_Year,
                    Item_Type)
SELECT Order_Year AS Year, Item_Type
FROM cte
WHERE ranking = 1
ORDER BY order_year DESC
```

⊞ Results		Messages
	Year	Item_Type
1	2017	Cosmetics
2	2016	Office Supplies
3	2015	Fruits
4	2014	Office Supplies
5	2013	Personal Care
6	2012	Fruits
7	2011	Clothes
8	2010	Personal Care

------MONTHLY ANALYSIS------

(Yearly-Monthly Total Products Sold)

46. Total products sold for each year-month combination?

SELECT Order_Year AS Year,

Order_Month_Name AS Month,

SUM(Units_Sold) AS Total_Order

FROM [dbo].[Amazon Sales data]

GROUP BY Order_Year,

Order_Month_Number,

Order_Month_Name

ORDER BY Order_Year,

Order_Month_Number ASC

⊞ F	Results	Message	es			
	Year	Month	Total_Order			
1	2010	February	9503			
2	2010	May	15747			
3	2010	June	9905			
4	2010	October	14403			
5	2010	November	7910			
6	2010	December	4103			
7	2011	January	12914			
8	2011	February	8156			
9	2011	April	4187			
10	2011	May	5741			
11	2011	June	124	36	36 2014	36 2014 May
12	2011	July	888	37	37 2014	37 2014 June
13	2011	September	3732	38	38 2014	38 2014 July
14	2011	November	19026	39	39 2014	39 2014 August
15	2012	January	1548	40	40 2014	40 2014 September
16	2012	February	15776	41	41 2014	41 2014 October
17	2012	March	6457	42	42 2014	42 2014 November
18	2012	April	8903	43	43 2015	43 2015 January
19	2012	May	10984	44	44 2015	44 2015 February
20	2012	June	7620	45	45 2015	45 2015 April
21	2012	July	22646	46	46 2015	46 2015 July
22	2012	August	2804	47	47 2015	47 2015 August
23	2012	September	16545	48	48 2015	48 2015 October
24	2012	October	4684	49	49 2015	49 2015 November
25	2013	February	5062	50	50 2016	50 2016 March
26	2013	March	4063	51	51 2016	51 2016 May
20 27	2013	April	5010	52		
28	2013	June	5432	53		
29	2013	July	19546	54		
	2013		9606	55		
30		August		56		
31	2013	September	7637	57		
32	2013	October	6182			
33	2013	December	2125	58		
34	2014	February	10460	59		
35	2014	April	13808	60	60 2017	60 2017 May

(Most Sold Item Each Year-Month)

47. The most sold item in each year-month?

```
WITH cte
     AS (SELECT Ship_Year,
                Order_Month_Number,
                Order_Month_Name,
                Item_Type,
                Sum(Units_Sold)
                                 AS Total_Sold,
                Dense_rank()
                OVER (
                   partition BY Ship_Year, Order_Month_Number, Order_Month_Name
                   ORDER BY Sum(Units_Sold) DESC) AS Ranking
         FROM [dbo].[amazon sales data]
         GROUP BY Ship_Year,
                    Order_Month_Number,
                    Order_Month_Name,
                    Item_Type)
 SELECT Ship_Year
                     AS Year,
         Order_Month_Name AS Month,
         Item_Type,
         Total_Sold
 FROM cte
 WHERE ranking = 1
 ORDER BY Ship_Year DESC,
 Total_Sold DESC;
```

⊞ F	Results	Messag	es					
	Year	Month	Item_Type	Total_Sold				
1	2017	February	Household	8974				
2	2017	May	Cereal	8656				
3	2017	January	Clothes	8263				
4	2017	March	Personal Care	3015				
5	2016	November	Cosmetics	13441				
6	2016	December	Cosmetics	8867				
7	2016	July	Clothes	5498				
8	2016	May	Personal Care	5070				
9	2016	October	Beverages	4660				
10	2016	June	Snacks	2225				
11	2016	March	Cereal	962	36	2013	March	Cereal
12	2015	July	Personal Care	11837	37	2013	Septemb	Cosmetics
13	2015	January	Household	8250	38	2012	July	Personal Car
14	2015	April	Clothes	7342	39	2012	May	Baby Food
15	2015	November	Clothes	5930	40	2012	April	Office Suppli
16	2015	February	Baby Food	2974	41	2012	March	Vegetables
17	2015	October	Office Suppli	2924	42	2012	February	Personal Car
18	2015	August	Fruits	673	43	2012	October	Household
19	2014	July	Beverages	14513	44	2012	June	Clothes
20	2014	October	Beverages	9379	45	2012	November	Office Suppl
21	2014	June	Fruits	8102	46	2012	August	Cereal
	2014	May	Baby Food	7450	47	2012	January	Office Suppli
22	2014	April	Cosmetics	7215	48	2011	November	Fruits
23	2014	November	Household	6954	49	2011	January	Beverages
24	2014				50	2011	February	Beverages
25 26	2014	February	Baby Food Clothes	5559 4168	51	2011	May	Beverages
26		August			52	2011	April	Household
27	2014	Septemb	Fruits	2187	53	2011	December	Household
28	2014	December	Personal Care	2125	54	2011	Septemb	Vegetables
29	2013	July	Cosmetics	19546	55	2011	July	Clothes
30	2013	August	Fruits	9606	56	2011	June	Vegetables
31	2013	Septemb	Fruits	7637	57	2010	May	Baby Food
32	2013	October	Cosmetics	6182	58	2010	June	Clothes
33	2013	February	Office Suppli	5062	59	2010	October	Office Suppli
34	2013	April	Office Suppli	5010	60	2010	November	Cosmetics
35	2013	June	Baby Food	4750	61	2010	February	Cosmetics

(Least Sold Item Each Year-Month)

48. The least sold item in each year-month?

```
WITH cte
     AS (SELECT Ship_Year,
                Order_Month_Number,
                Order_Month_Name,
                Item_Type,
                Sum(Units_Sold)
                                 AS Total_Sold,
                Dense_rank()
                OVER (
                   partition BY Ship_Year, Order_Month_Number, Order_Month_Name
                   ORDER BY Sum(Units_Sold) ASC) AS Ranking
         FROM [dbo].[amazon sales data]
         GROUP BY Ship_Year,
                    Order_Month_Number,
                    Order_Month_Name,
                    Item_Type)
 SELECT Ship_Year
                     AS Year,
         Order_Month_Name AS Month,
         Item_Type,
         Total_Sold
 FROM cte
 WHERE ranking = 1
 ORDER BY Ship_Year DESC,
 Total_Sold ASC;
```

▦	Results	Message	es						
	Year	Month	Item_Type	Total_Sold					
1	2017	May	Cosmetics	1815					
2	2017	March	Personal Care	3015					
3	2017	January	Meat	4767					
4	2017	February	Snacks	7327					
5	2016	December	Office Supplies	948					
6	2016	March	Cereal	962					
7	2016	June	Vegetables	1485					
8	2016	October	Beverages	4660					
9	2016	May	Personal Care	5070					
10	2016	July	Clothes	5498	36	2013	July	Cosmetics	19546
11	2016	November	Cosmetics	13441	37	2012	October	Vegetables	171
12	2015	August	Fruits	673	38	2012	January	Household	282
13	2015	July	Baby Food	1273	39	2012	April	Fruits	522
14	2015	February	Cosmetics	2847	40	2012	June	Office Supplies	2021
15	2015	October	Office Supplies	2924	41	2012	May	Household	2370
16	2015	April	Beverages	5430	42	2012	August	Cereal	2804
17	2015	November	Clothes	5930	43	2012	November	Office Supplies	3457
18	2015	January	Household	8250	44	2012	February	Office Supplies	3987
19	2014	May	Office Supplies	1779	45	2012	July	Meat	5908
20	2014	December	Personal Care	2125	46	2012	March	Vegetables	6457
21	2014	September	Fruits	2187	47	2012	September	Clothes	7884
22	2014	August	Clothes	4168	48	2011	June	Vegetables	124
23	2014	February	Personal Care	4901	49	2011	December	Personal Care	273
24	2014	October	Fruits	5398	50	2011	July	Clothes	888
25	2014	April	Cereal	6593	51	2011	September	Vegetables	3732
26	2014	November	Household	6954	52	2011	January	Snacks	4085
27	2014	June	Fruits	8102	53	2011	April	Household	4187
28	2014	July	Beverages	14513	54	2011	November	Office Supplies	5518
29	2013	June	Cereal	682	55	2011	May	Beverages	5741
30	2013	March	Cereal	4063	56	2011	February	Beverages	8156
31	2013	April	Office Supplies	5010	57	2010	February	Clothes	2269
32	2013	February	Office Supplies	5062	58	2010	May	Fruits	5822
33	2013	October	Cosmetics	6182	59	2010	October	Clothes	6116
34	2013	September	Fruits	7637	60	2010	November	Cosmetics	7910
35	2013	August	Fruits	9606	61	2010	June	Clothes	9905