

Ques-1 Identify the most selling subcategory and product: Order and Value Wise

```
1 | -- Most Selling Subcategory (Order Count)
2 | SELECT Sub_Category, COUNT(Order_ID) AS OrderCount
3 | FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 | GROUP BY Sub_Category
5 | ORDER BY OrderCount DESC
6 | LIMIT 1;
7
8
```

Query results

Job information Results Chart JSON Execution details			
Row	Sub_Category	OrderCount	
1	Art	1152	

```
1 | -- Most Selling Subcategory (Total Sales)
2 | SELECT Sub_Category, SUM(Sales) AS TotalSales
3 | FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 | GROUP BY Sub_Category
5 | ORDER BY TotalSales DESC
6 | LIMIT 1;
7
```

Query results

Job information Results Chart JSON Execution details Exec					
Row	Sub_Category	TotalSales			
1	Bookcases	294396.0			

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```

1 -- Most Selling Product (Order Count)
2 SELECT Product_Name, COUNT(Order_ID) AS OrderCount
3 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 GROUP BY Product_Name
5 ORDER BY OrderCount DESC
6 LIMIT 1;

```

Query results

Job information				Results	Chart	JSON	Execution details
Row	Product_Name	OrderCount					
1	Eldon File Cart Single Width	26					

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```

1 -- Most Profitable Product
2 SELECT Product_Name, SUM(Profit) AS TotalProfit
3 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 GROUP BY Product_Name
5 ORDER BY TotalProfit DESC
6 LIMIT 1;

```

Query results

Job information				Results	Chart	JSON	Execution details
Row	Product_Name	TotalProfit					
1	Nokia Smart Phone Full Size	7351.0					

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```

1 -- Most Profitable Subcategory
2 SELECT Sub_Category, SUM(Profit) AS TotalProfit
3 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 GROUP BY Sub_Category
5 ORDER BY TotalProfit DESC
6 LIMIT 1;

```

Query results

Job information				Results	Chart	JSON	Execution details	Exec
Row	Sub_Category	TotalProfit						
1	Copiers	43083.0						

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```

1
2 -- Most Selling Product (Total Sales)
3 SELECT Product_Name, SUM(Sales) AS TotalSales
4 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
5 GROUP BY Product_Name
6 ORDER BY TotalSales DESC
7 LIMIT 1;

```

Query results

Job information				Results	Chart	JSON	Execution details
Row	Product_Name	TotalSales					
1	Nokia Smart Phone Full Size	30645.0					

Ques 2- Categories and products contributing maximum to profit? How we can maximise profit?

```
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```

```
1
2 -- Top Profit Product
3 SELECT Product_Name, SUM(Profit) AS TotalProfit
4 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
5 GROUP BY Product_Name
6 ORDER BY TotalProfit DESC
7 LIMIT 1;
```

Query results

Job information	Results	Chart	JSON	Execution details	E
Row	Product_Name ▾	TotalProfit ▾			
1	Nokia Smart Phone Full Size	7351.0			

```
Untitled query  Run Save Download Share
```

```
1
2 -- Top Profit Category
3 SELECT Category, SUM(Profit) AS TotalProfit
4 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
5 GROUP BY Category
6 ORDER BY TotalProfit DESC
7 LIMIT 1;
```

Query results

Job information	Results	Chart	JSON	Execution details
Row	Category ▾	TotalProfit ▾		
1	Office Supplies	136270.0		

Ques 3- How profit %age moved MoM and QoQ?

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```
1 -- QoQ Profit % Change
2 WITH QuarterlyProfit AS (
3   SELECT
4     EXTRACT(YEAR FROM Date) AS Year,
5     EXTRACT(QUARTER FROM Date) AS Quarter,
6     SUM(Profit) AS TotalProfit
7   FROM 'quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment'
8   GROUP BY Year, Quarter
9 )
10 SELECT
11   Year,
12   Quarter,
13   TotalProfit,
14   (TotalProfit - LAG(TotalProfit) OVER (ORDER BY Year, Quarter)) / LAG(TotalProfit) OVER (ORDER BY Year, Quarter) * 100 AS QoQ_PercentChange
15 FROM QuarterlyProfit;
```

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Query results Save results Open in

Job information Results Chart JSON Execution details Execution graph

Row	Year	Quarter	TotalProfit	QoQ_PercentChange
1	2022	3	54286.0	-0.67514408562...
2	2022	4	61012.0	12.38993478981...
3	2023	1	33373.0	-45.3009244083...
4	2021	4	37606.0	null
5	2022	2	54655.0	1.511858992217...
6	2022	1	53841.0	43.17130245173...

Results per page: 50 1 - 6 of 6

```
-- MoM Profit % Change
WITH MonthlyProfit AS (
  SELECT
    EXTRACT(YEAR FROM Date) AS Year,
    EXTRACT(MONTH FROM Date) AS Month,
    SUM(Profit) AS TotalProfit
  FROM 'quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment'
  GROUP BY Year, Month
)
SELECT
  Year,
  Month,
  TotalProfit,
  (TotalProfit - LAG(TotalProfit) OVER (ORDER BY Year, Month)) / LAG(TotalProfit) OVER (ORDER BY Year, Month) * 100 AS MoM_PercentChange
FROM MonthlyProfit;
```

Pre

Query results Save result

Job information Results Chart JSON Execution details Execution graph

Row	Year	Month	TotalProfit	MoM_PercentChange
1	2022	3	19144.0	54.58656330749...
2	2022	11	19152.0	34.40943224085...
3	2022	9	19062.0	-3.18451927472...
4	2022	10	14249.0	-25.2491868639...
5	2022	7	15535.0	-16.7158097893...
6	2021	12	20347.0	23.50227617602...

Results per page: 200 1 - 6 of 6

Ques 4- Identify the best months and days from profit and Value perspective.

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```

1  -- Best Months (Profit)
2  SELECT
3      EXTRACT(YEAR FROM Date) AS Year,
4      EXTRACT(MONTH FROM Date) AS Month,
5      SUM(Profit) AS TotalProfit
6  FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
7  GROUP BY Year, Month
8  ORDER BY TotalProfit DESC
9  LIMIT 5;
10

```

Query results

Job information		Results	Chart	JSON	Execution details	Exe
Row	Year	Month	TotalProfit			
1	2022	12	27611.0			
2	2022	1	22313.0			
3	2022	4	21198.0			
4	2021	12	20347.0			
5	2022	8	19689.0			

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```

1  -- Best Days (Profit)
2  SELECT
3      FORMAT_DATE("%A", Date) AS DayOfWeek,
4      SUM(Profit) AS TotalProfit
5  FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
6  GROUP BY DayOfWeek
7  ORDER BY TotalProfit DESC
8  LIMIT 1;

```

Query results

Job information		Results	Chart	JSON	Execution details	Exe
Row	DayOfWeek	TotalProfit				
1	Wednesday	54257.0				

Ques 5- How profit varied wrt discount? What is the breakeven discount percentage?

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```

1 -- Profit vs. Discount
2 SELECT
3     Discount,
4     SUM(Profit) AS TotalProfit
5 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
6 GROUP BY Discount
7 ORDER BY Discount;

```

Query results [Save results](#)

Job information Results Chart JSON Execution details Execution graph

Row	Discount	TotalProfit
1	0.0	315241.0
2	0.1	91664.0
3	0.15	16628.0
4	0.2	1671.0
5	0.3	-348.0
6	0.35	-6936.0
7	0.4	-17348.0

Results per page: 200 1 -

Job history

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```

1 -- Breakeven Discount (Profit ≤ 0)
2 SELECT
3     Discount,
4     SUM(Profit) AS TotalProfit
5 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
6 GROUP BY Discount
7 HAVING TotalProfit <= 0
8 ORDER BY Discount;

```

Query results [Save results](#)

Job information Results Chart JSON Execution details Execution graph

Row	Discount	TotalProfit
1	0.3	-348.0
2	0.35	-6936.0
3	0.4	-17348.0
4	0.45	-1104.0
5	0.5	-78922.0
6	0.6	-14395.0

Results per page: 200

Ques 6-What is the return percentage?

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```
1 --Return %
2 SELECT
3   (COUNTIF(Return_Status = 'Returned') / COUNT(Order_ID)) * 100 AS ReturnPercentage
4 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
```

Query results Save

Job information **Results** Chart JSON Execution details Execution graph

Row	ReturnPercentage
1	2.982477942090...

Ques 7- What is the average quantity sold per order?

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```
1 --Avg Quantity Sold Per order
2 SELECT AVG(Quantity) AS AvgQuantityPerOrder
3 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`;
```

Query results

Job information **Results** Chart JSON Execution details Execution graph

Row	AvgQuantityPerOrder
1	3.772088977258...

Ques 8- Are there any orders with multiple products?

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```
1 --Orders with multiple products
2 SELECT Order_ID, COUNT(Product_Name) AS ProductCount
3 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
4 GROUP BY Order_ID
5 HAVING ProductCount > 1;
```

Query results Save

Job information	Results	Chart	JSON	Execution details	Execution graph
Row	Order_ID	ProductCount			
1	AZ-2013-1201319	3			
2	AZ-2011-4452827	2			
3	AZ-2014-4362946	2			
4	AZ-2013-2566015	6			
5	AZ-2014-7956998	4			
6	BN-2012-8746032	4			
7	AZ-2012-5854289	2			
8	AZ-2011-8186685	2			

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Ques 9- What is the weighted discount trend Vs. Sales MoM and QoQ?

Untitled query Run Schedule Open in More Save Download Share

```
1 -- MoM Weighted Discount
2 WITH MonthlyData AS (
3   SELECT
4     EXTRACT(YEAR FROM Date) AS Year,
5     EXTRACT(MONTH FROM Date) AS Month,
6     SUM(Sales) AS TotalSales,
7     SUM(Discount * Sales) AS TotalDiscountSales
8   FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
9   GROUP BY Year, Month
10 )
11 SELECT
12   Year,
13   Month,
14   (TotalDiscountSales / TotalSales) AS WeightedDiscount,
15   TotalSales
16 FROM MonthlyData
17 ORDER BY Year, Month;
```

Query results Save

Job information	Results	Chart	JSON	Execution details	Execution graph
Row	Year	Month	WeightedDiscount	TotalSales	
1	2021	10	0.112332757876...	4634.0	
2	2021	11	0.098392718549...	141730.0	
3	2021	12	0.098666459827...	174048.0	
4	2022	1	0.099281066969...	147858.0	
5	2022	2	0.115111440814	120647.0	

Results per page: 50

```

Untitled query Run Schedule Open in More Save Download
1 -- QoQ Weighted Discount
2 WITH QuarterlyData AS (
3     SELECT
4         EXTRACT(YEAR FROM Date) AS Year,
5         EXTRACT(QUARTER FROM Date) AS Quarter,
6         SUM(Sales) AS TotalSales,
7         SUM(Discount * Sales) AS TotalDiscountSales
8     FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
9     GROUP BY Year, Quarter
10 )
11 SELECT
12     Year,
13     Quarter,
14     (TotalDiscountSales / TotalSales) AS WeightedDiscount,
15     TotalSales
16 FROM QuarterlyData
17 ORDER BY Year, Quarter;

```

Query results

Job information	Results	Chart	JSON	Execution details	Execution graph
Row	Year	Quarter	WeightedDiscount	TotalSales	
1	2021	4	0.098743024605...	320412.0	
2	2022	1	0.104876345450...	421699.0	
3	2022	2	0.101040185452...	418435.0	
4	2022	3	0.094654524625...	412012.0	
5	2022	4	0.100458080152	435295.0	

Ques 10- If the business call is to reduce the discount what should be the steps?

Steps to reduce discount

Identify products with high discounts but low profit margins. Recommend:

- Gradual discount reduction.
- Promotions for full-price sales.
- Cost negotiation with suppliers.

Ques 11- How many orders got cancelled?

```

Untitled query Run Save Download Share
1 SELECT COUNTIF(Return_Status = 'Cancelled') AS CancelledOrders
2 FROM `quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment`
3

```

Query results

Job information	Results	Chart	JSON	Execution details	Execution
Row	CancelledOrders				
1	373				

Ques 12- What Impact on profit and discount from the cancelled orders?

```
1  --Impact on profit and discount from cancelled orders
2  SELECT
3      SUM(Profit) AS TotalProfitLoss,
4      AVG(Discount) AS AvgDiscount
5  FROM 'quixotic-vent-446704-g6.Wellbeing_assignment.WB_assignment'
6  WHERE Return_Status = 'Cancelled';
7
```

Query results

Job information		Results	Chart	JSON	Execution details	Executic
Row	TotalProfitLoss	AvgDiscount				
1	14111.0	0.106434316353...				