

## Sales Trend Analysis

```
3      -- Convert from string to DATE
4  •   ALTER TABLE orders
5      MODIFY Order_Date DATE;
6
7      -- 1.Extract month from order_date
8  •   SELECT EXTRACT(MONTH FROM Order_Date) AS month FROM orders;
9
10     -- 2.Extract year from order_date
11  •   SELECT EXTRACT(YEAR FROM Order_Date) AS year FROM orders;
```

Result Grid					Filter Rows:	Export:	Wrap Cell Content:
	year	month	total_revenue	total_orders			
▶	2024	1	14548.32	31			
	2024	2	10803.37	29			
	2024	3	12849.24	31			
	2024	4	12451.69	30			
	2024	5	8455.49	31			
	2024	6	7384.55	30			
	2024	7	6797.08	31			
	2024	8	7278.11	27			

```
14     -- 3. Monthly revenue and order volume
15  •   SELECT
16         year,
17         month,
18         ROUND(SUM(Amount), 2) AS total_revenue,
19         COUNT(DISTINCT `Transaction_ID`) AS total_orders
20     FROM orders
21     GROUP BY year, month
22     ORDER BY year, month;
```

Result Grid					Filter Rows:	Export:	Wrap Cell Content:
	year	month	total_revenue	total_orders			
▶	2024	1	14548.32	31			
	2024	2	10803.37	29			
	2024	3	12849.24	31			
	2024	4	12451.69	30			
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	2024	6	7384.55	30			
	2024	7	6797.08	31			
	2024	8	7278.11	27			

```

24  -- 4. Top 5 products by total revenue
25  • SELECT
26      Product_name,
27      ROUND(SUM(Amount), 2) AS total_revenue
28  FROM orders
29  GROUP BY Product_name
30  ORDER BY total_revenue DESC
31  LIMIT 5;
32

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	Product_name	total_revenue			
▶	Canon EOS R5 Camera	3899.99			
	LG OLED TV	2599.98			
	MacBook Pro 16-inch	2499.99			
	Apple MacBook Pro 16-inch	2399			
	iPhone 14 Pro	1999.98			

```

33  -- 5. Revenue by region
34  • SELECT
35      Region,
36      ROUND(SUM(Amount), 2) AS total_revenue,
37      COUNT(DISTINCT `Transaction_ID`) AS total_orders
38  FROM orders
39  GROUP BY Region
40  ORDER BY total_revenue DESC;
41



```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Region	total_revenue	total_orders	
▶	North America	36844.34	80	
	Asia	22455.45	80	
	Europe	21268.06	80	

```

42  -- 6. Monthly revenue by product category
43  ● SELECT
44      year,
45      month,
46      Product_Category,
47      ROUND(SUM(Amount), 2) AS total_revenue
48  FROM orders
49  GROUP BY year, month, Product_Category
50  ORDER BY year, month, total_revenue DESC;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	year	month	Product_Category	total_revenue
▶	2024	1	Electronics	7999.9
	2024	1	Home Appliances	2169.94
	2024	1	Clothing	1789.84
	2024	1	Sports	1579.83
	2024	1	Beauty Products	699.95
	2024	1	Books	308.86
	2024	2	Sports	2993.87
	2024	2	Electronics	2899.88
	2024	2	Home Appliances	2869.92
	2024	2	Clothing	1284.81

```

52  -- 7. Revenue by payment method
53  ● SELECT
54      Payment_Method,
55      ROUND(SUM(Amount), 2) AS total_revenue,
56      COUNT(DISTINCT `Transaction_ID`) AS total_orders
57  FROM orders
58  GROUP BY Payment_Method
59  ORDER BY total_revenue DESC;
60

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	Payment_Method	total_revenue	total_orders
▶	Credit Card	51170.86	120
	PayPal	21268.06	80
	Debit Card	8128.93	40

```

61  -- 8. Best-selling product each month
62  • SELECT
63      year,
64      month,
65      Product_name,
66      ROUND(SUM(Amount), 2) AS monthly_revenue
67  FROM orders
68  GROUP BY year, month, Product_name
69  ORDER BY year, month, monthly_revenue DESC;

```

Result Grid				
	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
year	month	Product_name	monthly_revenue	
2024	1	MacBook Pro 16-inch	2499.99	
2024	1	iPhone 14 Pro	1999.98	
2024	1	Samsung Galaxy Tab S8	1499.98	
2024	1	Blueair Classic 480i	1199.98	
2024	1	Garmin Forerunner 945	999.98	
2024	1	Sony WH-1000XM4 Headphones	699.98	
2024	1	Babolat Pure Drive Tennis Racket	599.97	
2024	1	Nike Air Force 1	539.94	
2024	1	Dyson V11 Vacuum	499.99	
2024	1	North Face Down Jacket	499.98	

```

71  -- 9. Average order value per month
72  • SELECT
73      year,
74      month,
75      ROUND(SUM(Amount) / COUNT(DISTINCT `Transaction_ID`), 2) AS avg_order_value
76  FROM orders
77  GROUP BY year, month
78  ORDER BY year, month;

```

Result Grid			
	Filter Rows:	Export:	Wrap Cell Content:
year	month	avg_order_value	
2024	1	469.3	
2024	2	372.53	
2024	3	414.49	
2024	4	415.06	
2024	5	272.76	
2024	6	246.15	
2024	7	219.26	
2024	8	269.56	

```

80 -- 10. Highest revenue day
81 • SELECT
82     Order_Date,
83     ROUND(SUM(Amount), 2) AS total_revenue
84 FROM orders
85 GROUP BY Order_Date
86 ORDER BY total_revenue DESC
87 LIMIT 1;
88

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
Order_Date	total_revenue			
2024-04-12	3899.99			

```

89 -- 11. Total units sold by category
90 • SELECT
91     Product_Category,
92     SUM(Units_Sold) AS total_units_sold
93 FROM orders
94 GROUP BY Product_Category
95 ORDER BY total_units_sold DESC;
96


```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Product_Category	total_units_sold		
Clothing	145		
Books	114		
Sports	88		
Electronics	66		
Home Appliances	59		
Beauty Products	46		

```

97  -- 12. Revenue by region and category
98  • SELECT
99      Region,
100     Product_Category,
101     ROUND(SUM(Amount), 2) AS total_revenue
102 FROM orders
103 GROUP BY Region, Product_Category
104 ORDER BY Region, total_revenue DESC;

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	Region	Product_Category	total_revenue
▶	Asia	Sports	14326.52
	Asia	Clothing	8128.93
	Europe	Home Appliances	18646.16
	Europe	Beauty Products	2621.9
	North America	Electronics	34982.41
	North America	Books	1861.93