Online Sales Data Analysis Report

Extract Month from Each Transaction Date

```
-- Extract Month from Each Transaction Date

SELECT
    transaction_id,
    `date`,
    EXTRACT(MONTH FROM `date`) AS month_num

FROM online_sales_data;
```

Re	Result Grid			
	transaction_id	date	month_num	
•	10001	2024-01-01	1	
	10002	2024-01-02	1	
	10003	2024-01-03	1	
	10004	2024-01-04	1	
	10005	2024-01-05	1	
	10006	2024-01-06	1	
	10007	2024-01-07	1	
Result 1 ×				

Group by Year and Month to Get Total Revenue

Result Grid Filter Rows: monthly_revenue month year 2024 14548.32 2024 10803.37 12849.24 2024 12451.69 8455.49 2024 7384.55 2024

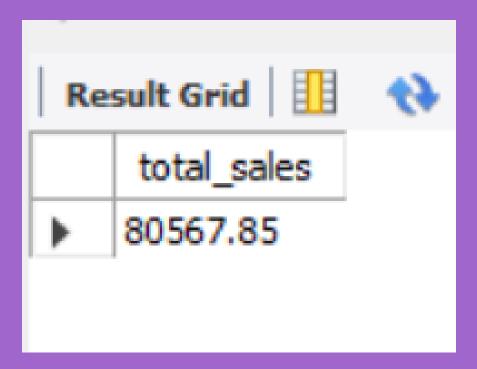
```
-- Group by Year and Month to Get Total Revenue

• SELECT
    YEAR(`date`) AS year,
    MONTH(`date`) AS month,
    SUM(total_revenue) AS monthly_revenue

FROM online_sales_data
GROUP BY year, month
ORDER BY year, month;
```

Calculate Total Revenue (SUM)

```
1 -- Calculate Total Revenue (SUM)
2
3 • SELECT SUM(total_revenue) AS total_sales
4 FROM online_sales_data;
5
```



Count Unique Orders per Month

```
1  -- Count Unique Orders per Month
2
3 • SELECT
4     YEAR(`date`) AS year,
5     MONTH(`date`) AS month,
6     COUNT(DISTINCT transaction_id) AS order_volume
7    FROM online_sales_data
8    GROUP BY year, month
9    ORDER BY year, month;
```

Re	Result Grid Filter Rows:		
	year	month	order_volume
•	2024	1	31
	2024	2	29
	2024	3	31
	2024	4	30
	2024	5	31
	2024	6	30
	2024	7	31
	2024	8	27

Sort Months by Highest Revenue

```
-- Sort Months by Highest Revenue
SELECT
   YEAR(`date`) AS year,
    MONTH(`date`) AS month,
    SUM(total revenue) AS monthly revenue
FROM online sales data
GROUP BY year, month
ORDER BY monthly revenue DESC;
```

Result Grid Filter Rows:			
	year	month	monthly_revenue
•	2024	1	14548.32
	2024	3	12849.24
	2024	4	12451.69
	2024	2	10803.37
	2024	5	8455.49
	2024	6	7384.55
	2024	8	7278.11

Top 3 Best-Selling Products by Year

```
1  -- Top 3 Best-Selling Products by Revenueific Year
2
3 • SELECT
4     product_name,
5     SUM(total_revenue) AS total_revenue
6     FROM online_sales_data
7     GROUP BY product_name
8     ORDER BY total_revenue DESC
9     LIMIT 3;
10
```

Result Grid		
	product_name	total_revenue
•	Canon EOS R5 Camera	3899.99
	LG OLED TV	2599.98
	MacBook Pro 16-inch	2499.99

Per Region – Highest Revenue Product

```
SELECT region, product_name, total_revenue

⇒ FROM (
           SELECT
               region,
               product_name,
               SUM(total_revenue) AS total_revenue,
               ROW_NUMBER() OVER (PARTITION BY region ORDER BY SUM(total_revenue) DESC) AS rank_num
 9
           FROM online_sales_data
10
11
           GROUP BY region, product_name
12
       ) AS ranked
      WHERE rank_num = 1;
13
```

	region	product_name	total_revenue
•	Asia	Peloton Bike	1895.00
	Europe	LG OLED TV	2599.98
	North America	Canon EOS R5 Camera	3899.99

Most Popular Payment Method

```
-- Most Popular Payment Method
     SELECT
         payment_method,
         COUNT(*) AS total_orders
     FROM online_sales_data
6
     GROUP BY payment_method
     ORDER BY total_orders DESC;
8
9
```

Result Grid		
	payment_method	total_orders
•	Credit Card	120
	PayPal	80
	Debit Card	40
	-	