

create_data* x SQL File 3*



```
1  ----- Sales Analysis -----
2
3
4  /* CREATE TABLES */
5
6  • CREATE DATABASE online_sales;
7  • use online_sales;
8  |
9
10 • CREATE TABLE Customers
11  (customer_id int,
12   customer_name varchar(50),
13   age int,
14   gender varchar(50),
15   city varchar(50)
16  );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	Tables_in_online_sales
►	customers
	orders
	products

create_data*

SQL File 3* x



Limit to 10000 rows

```
1  use online_sales;
2
3  • show tables;
4
5  • SELECT
6      EXTRACT(YEAR FROM order_date) AS year,
7      EXTRACT(MONTH FROM order_date) AS month,
8      SUM(sales) AS monthly_revenue,
9      COUNT(DISTINCT order_id) AS order_volume,
10     SUM(quantity) AS total_items_sold
11 FROM
12     Orders
13 GROUP BY
14     year, month
15 ORDER BY
16     year, month;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	year	month	monthly_revenue	order_volume	total_items_sold
▶	2023	5	812.99	2	2
	2023	6	2465.97	4	14
	2023	7	2400.00	2	3
	2023	8	1664.93	3	9

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Limit to 10000 rows

```
18      # 2. Product Performance Analysis
19      SELECT
20      p.product_name,
21      p.category,
22      COUNT(o.order_id) AS total_orders,
23      SUM(o.quantity) AS total_units_sold,
24      SUM(o.sales) AS total_revenue,
25      ROUND(SUM(o.sales) / SUM(o.quantity), 2) AS avg_price_per_unit
26  FROM
27      Orders o
28  JOIN
29      Products p ON o.product_id = p.product_id
30  GROUP BY
31      p.product_name, p.category
32  ORDER BY
33      total_revenue DESC;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	product_name	category	total_orders	total_units_sold	total_revenue	avg_price_per_unit
▶	MacBook Air	Laptop	2	2	3200.00	1600.00
	iPhone	Phone	2	3	2400.00	800.00
	Flatscreen TV	TV	2	3	1600.00	533.33
	Wired Headphones	Headphones	3	7	91.93	13.13
	AA Batteries (4-pack)	Batteries	2	13	51.96	4.00

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Limit to 10000 rows

```
36      # 3. Customer Segmentation Analysis
37      SELECT
38          c.gender,
39          c.city,
40          COUNT(DISTINCT o.customer_id) AS unique_customers,
41          COUNT(o.order_id) AS total_orders,
42          SUM(o.sales) AS total_spend,
43          ROUND(SUM(o.sales) / COUNT(DISTINCT o.customer_id), 2) AS avg_spend_per_customer
44      FROM
45          Orders o
46      JOIN
47          Customers c ON o.customer_id = c.customer_id
48      GROUP BY
49          c.gender, c.city
50      ORDER BY
51          total_spend DESC;
```

Result Grid



Filter Rows:



Export:




Wrap Cell Content:

	gender	city	unique_customers	total_orders	total_spend	avg_spend_per_customer
▶	Male	San Francisco	2	2	1639.99	820.00
	Male	Boston	3	3	1625.98	541.99
	Female	New York City	2	2	1611.97	805.99
	Male	Los Angeles	1	1	1600.00	1600.00
	Female	Los Angeles	1	2	812.99	812.99
	Female	San Francisco	1	1	52.96	52.96

```

53
54     # 4. Time-Based Analysis (Daily Patterns)
55     SELECT
56         DAYNAME(order_date) AS day_of_week,
57         COUNT(order_id) AS orders_count,
58         SUM(sales) AS daily_revenue,
59         ROUND(SUM(sales) / COUNT(order_id), 2) AS avg_order_value
60     FROM
61         Orders
62     GROUP BY
63         day_of_week
64     ORDER BY
65         FIELD(day_of_week, 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday');

```

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	day_of_week	orders_count	daily_revenue	avg_order_value
▶	Monday	1	800.00	800.00
	Tuesday	1	800.00	800.00
	Wednesday	2	1652.96	826.48
	Thursday	3	3211.97	1070.66
	Friday	2	812.99	406.50
	Saturday	1	25.98	25.98
	Sunday	1	39.99	39.99


```
88      # 6. Product Category Performance Over Time
89  •  SELECT
90      DATE_FORMAT(o.order_date, '%Y%m') AS year,
91      p.category,
92      SUM(o.sales) AS category_revenue,
93      ROUND(SUM(o.sales) * 100 / (
94          SELECT SUM(sales)
95          FROM Orders o2
96          WHERE DATE_FORMAT(o2.order_date, '%Y%m') = DATE_FORMAT(o.order_date, '%Y%m')
97      ), 2) AS revenue_percentage
98  FROM
99      Orders o
100  JOIN
101      Products p ON o.product_id = p.product_id
102  GROUP BY
103      DATE_FORMAT(o.order_date, '%Y%m'),
104      p.category
105  ORDER BY
106      year,
107      category_revenue DESC;
```