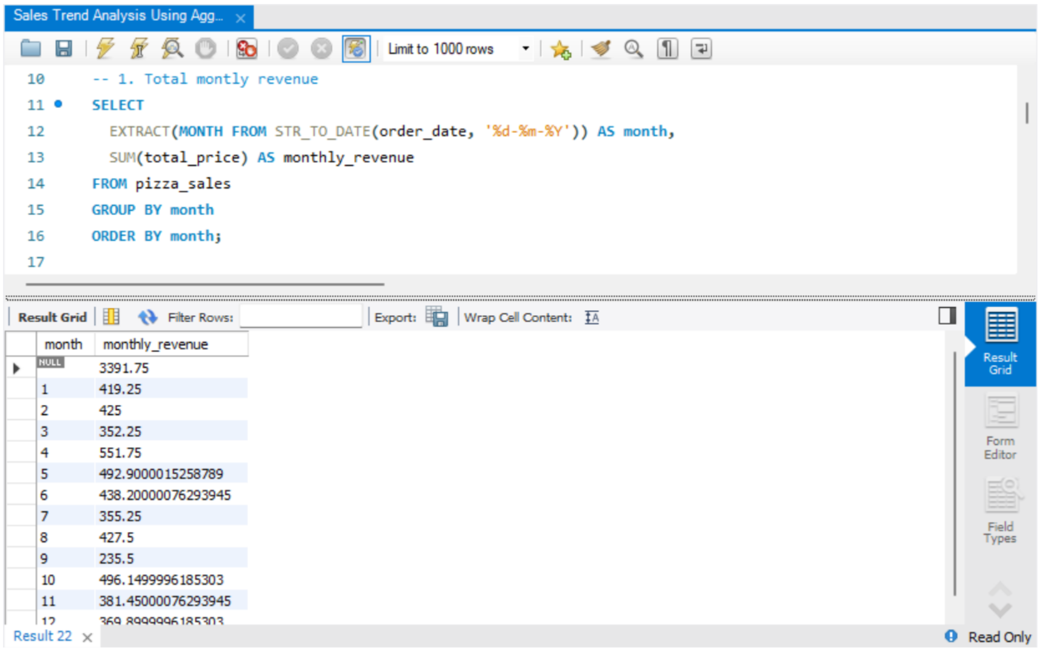
Sales Trend Analysis Using Aggregations

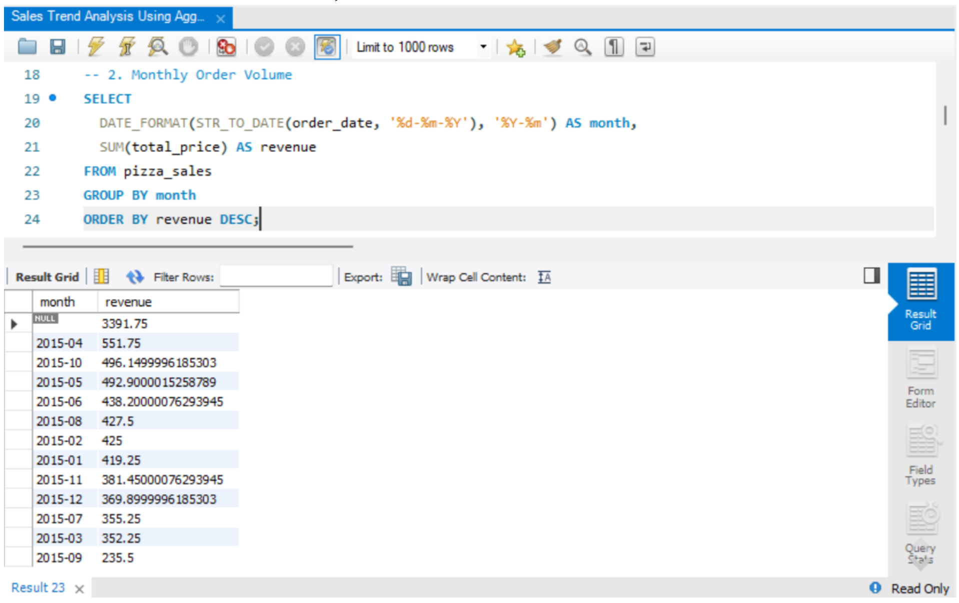
```
-- 1. Total montly revenue

SELECT
  EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS monthly_revenue
FROM pizza_sales
GROUP BY month
ORDER BY month;
```



```
-- 1. Total montly revenue
SELECT
  EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS monthly_revenue
FROM pizza_sales
GROUP BY month
ORDER BY month;
```

```
month   monthly_revenue
NULL    3391.75
1       419.25
2       425
3       352.25
4       551.75
5       492.9000015258789
6       438.20000076293945
7       355.25
8       427.5
9       235.5
10      496.1499996185303
11      381.45000076293945
12      369.8999996185303
```

```
-- 2. Monthly Order Volume
SELECT
  DATE_FORMAT(STR_TO_DATE(order_date, '%d-%m-%Y'), '%Y-%m') AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY month
ORDER BY revenue DESC;
```

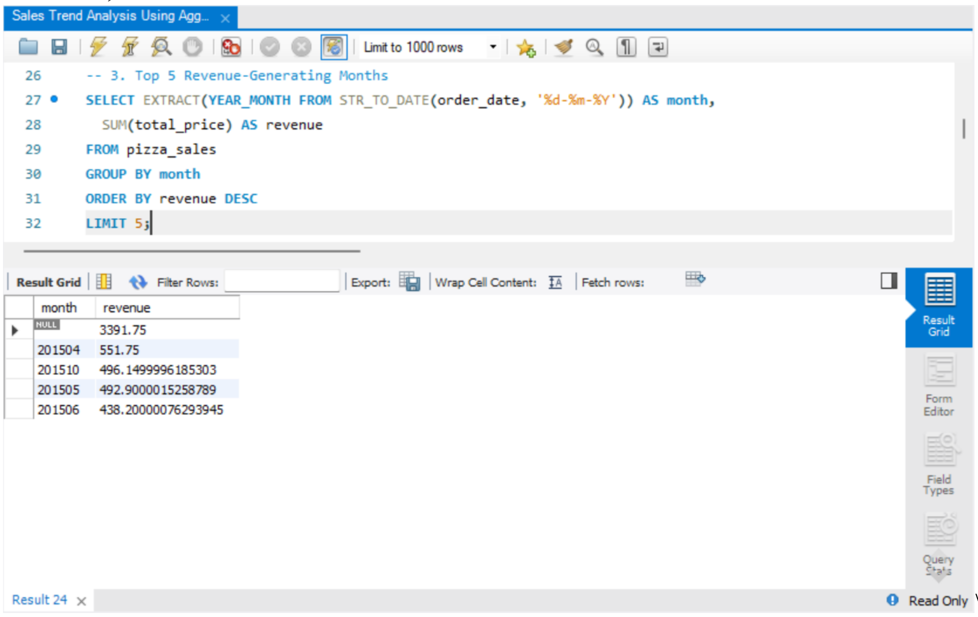


```
-- 2. Monthly Order Volume
SELECT
  DATE_FORMAT(STR_TO_DATE(order_date, '%d-%m-%Y'), '%Y-%m') AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY month
ORDER BY revenue DESC;
```

```
month     revenue
NULL      3391.75
2015-04   551.75
2015-10   496.1499996185303
2015-05   492.9000015258789
2015-06   438.20000076293945
2015-08   427.5
2015-02   425
2015-01   419.25
2015-11   381.45000076293945
2015-12   369.8999996185303
2015-07   355.25
2015-03   352.25
2015-09   235.5
```

```
-- 3. Top 5 Revenue-Generating Months
SELECT EXTRACT(YEAR_MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY month
```

ORDER BY revenue DESC
LIMIT 5;

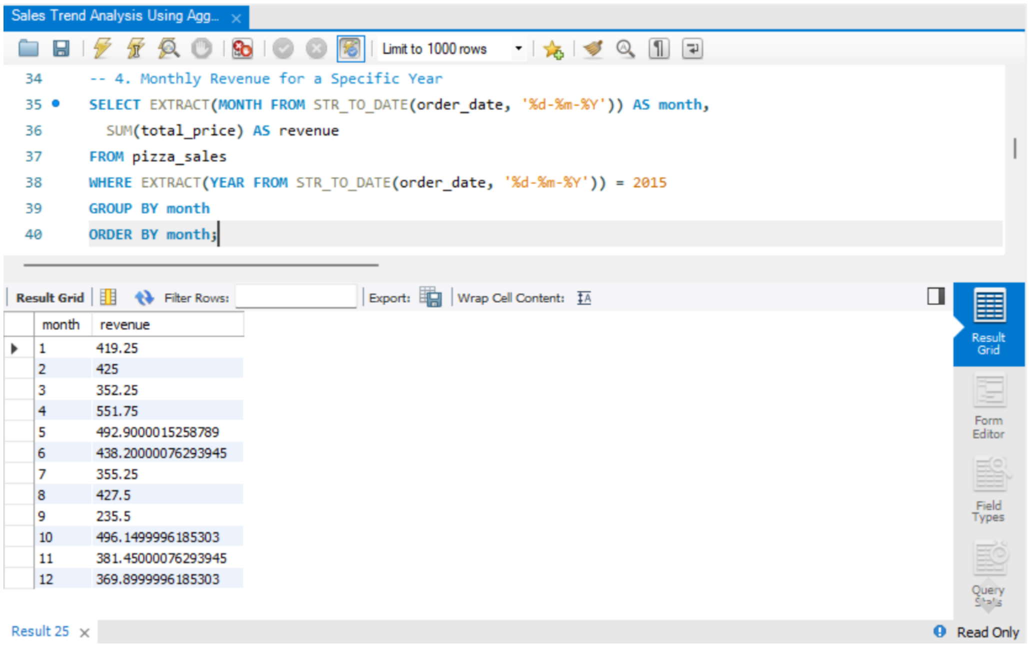


```sql
-- 3. Top 5 Revenue-Generating Months
SELECT EXTRACT(YEAR_MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY month
ORDER BY revenue DESC
LIMIT 5;
```

month	revenue
NULL	3391.75
201504	551.75
201510	496.1499996185303
201505	492.9000015258789
201506	438.20000076293945

\

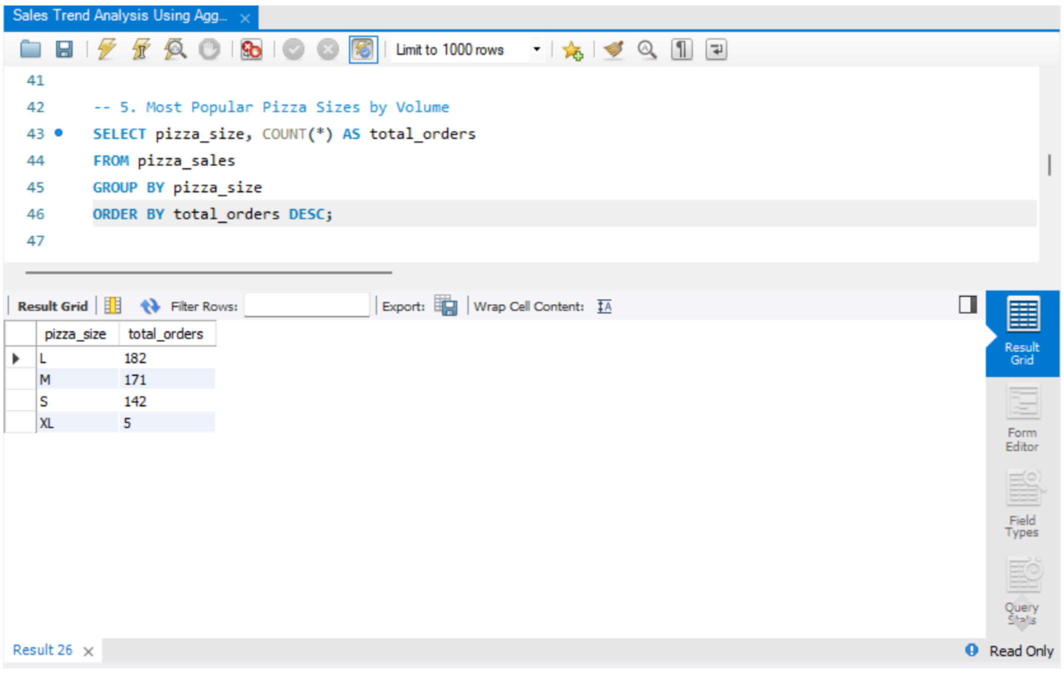
-- 4. Monthly Revenue for a Specific Year
SELECT EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
WHERE EXTRACT(YEAR FROM STR_TO_DATE(order_date, '%d-%m-%Y')) = 2015
GROUP BY month
ORDER BY month;



```sql
-- 4. Monthly Revenue for a Specific Year
SELECT EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
WHERE EXTRACT(YEAR FROM STR_TO_DATE(order_date, '%d-%m-%Y')) = 2015
GROUP BY month
ORDER BY month;
```

month	revenue
1	419.25
2	425
3	352.25
4	551.75
5	492.9000015258789
6	438.20000076293945
7	355.25
8	427.5
9	235.5
10	496.1499996185303
11	381.45000076293945
12	369.8999996185303

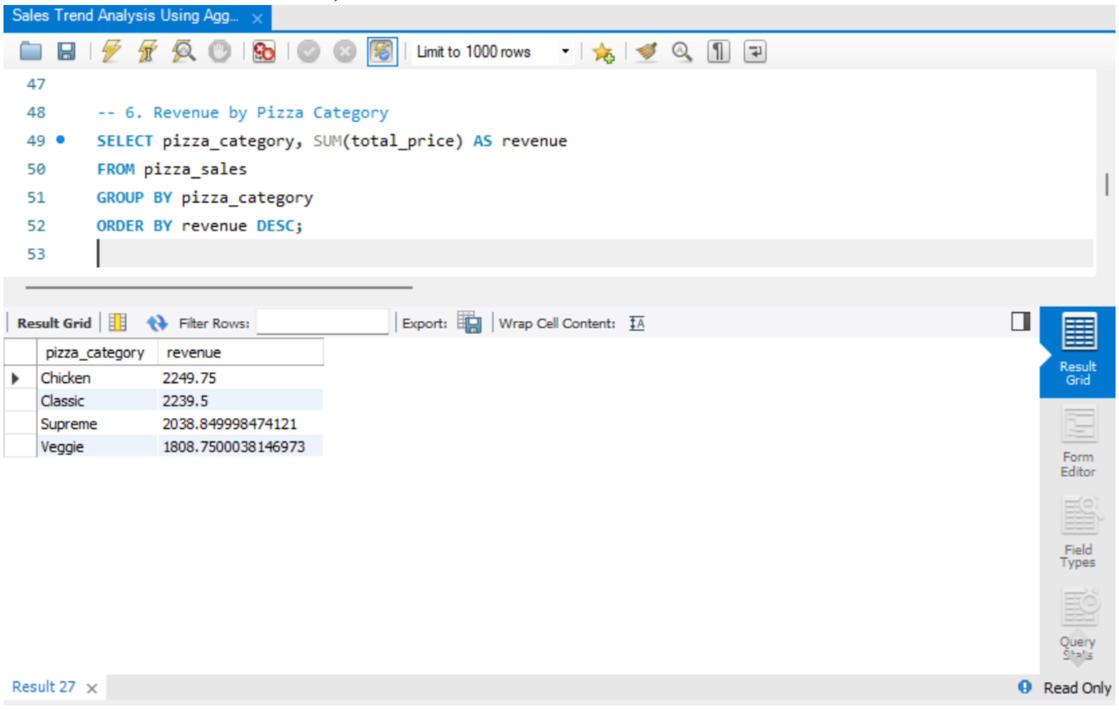
-- 5. Most Popular Pizza Sizes by Volume
SELECT pizza_size, COUNT(*) AS total_orders
FROM pizza_sales
GROUP BY pizza_size
ORDER BY total_orders DESC;



```
-- 5. Most Popular Pizza Sizes by Volume
SELECT pizza_size, COUNT(*) AS total_orders
FROM pizza_sales
GROUP BY pizza_size
ORDER BY total_orders DESC;
```

pizza_size	total_orders
L	182
M	171
S	142
XL	5

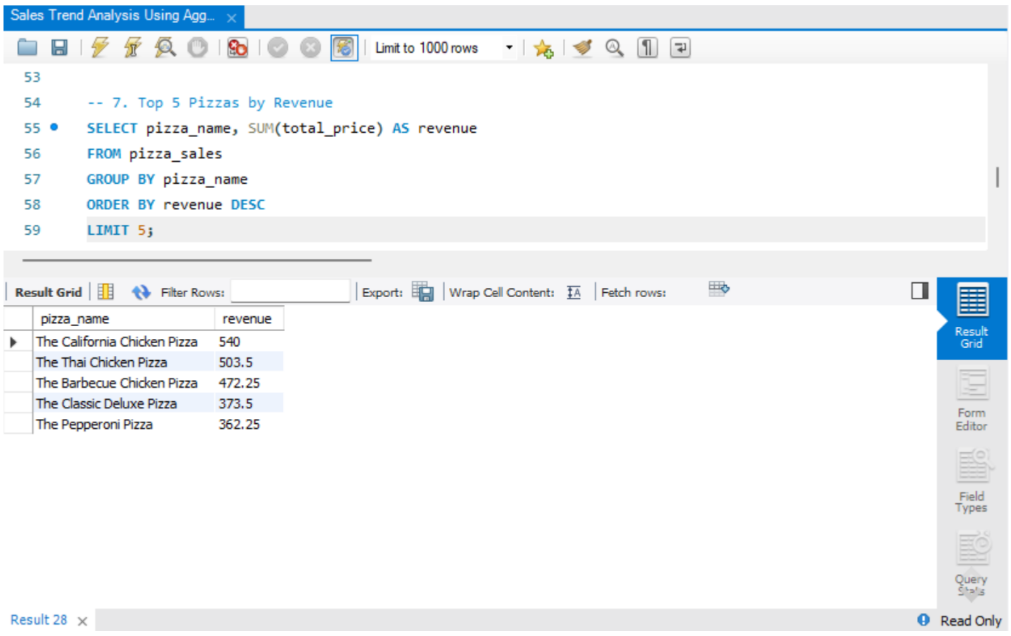
-- 6. Revenue by Pizza Category
SELECT pizza_category, SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_category
ORDER BY revenue DESC;



```
-- 6. Revenue by Pizza Category
SELECT pizza_category, SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_category
ORDER BY revenue DESC;
```

pizza_category	revenue
Chicken	2249.75
Classic	2239.5
Supreme	2038.849998474121
Veggie	1808.7500038146973

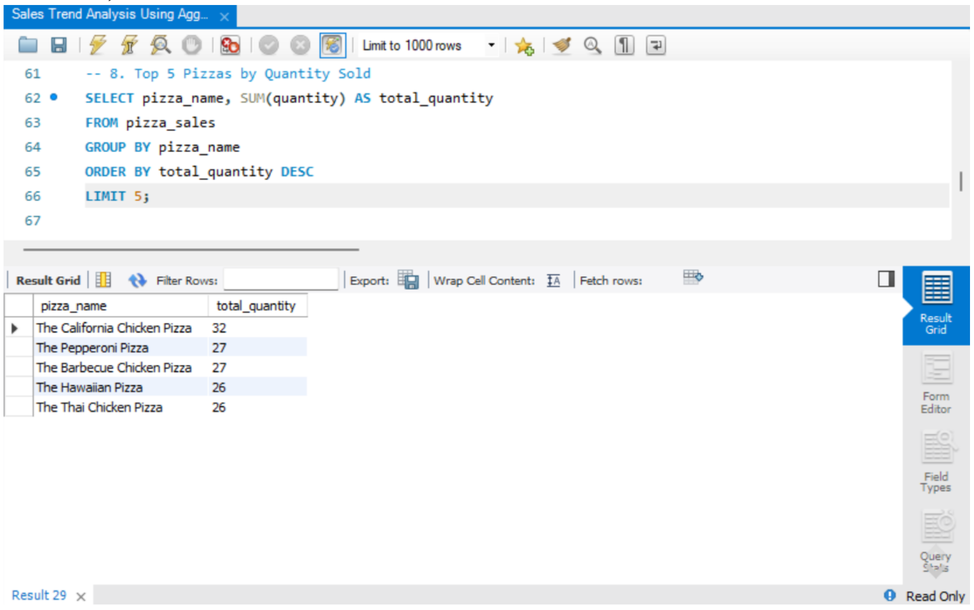
-- 7. Top 5 Pizzas by Revenue
SELECT pizza_name, SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_name
ORDER BY revenue DESC
LIMIT 5;



```
-- 7. Top 5 Pizzas by Revenue
SELECT pizza_name, SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_name
ORDER BY revenue DESC
LIMIT 5;
```

pizza_name	revenue
The California Chicken Pizza	540
The Thai Chicken Pizza	503.5
The Barbecue Chicken Pizza	472.25
The Classic Deluxe Pizza	373.5
The Pepperoni Pizza	362.25

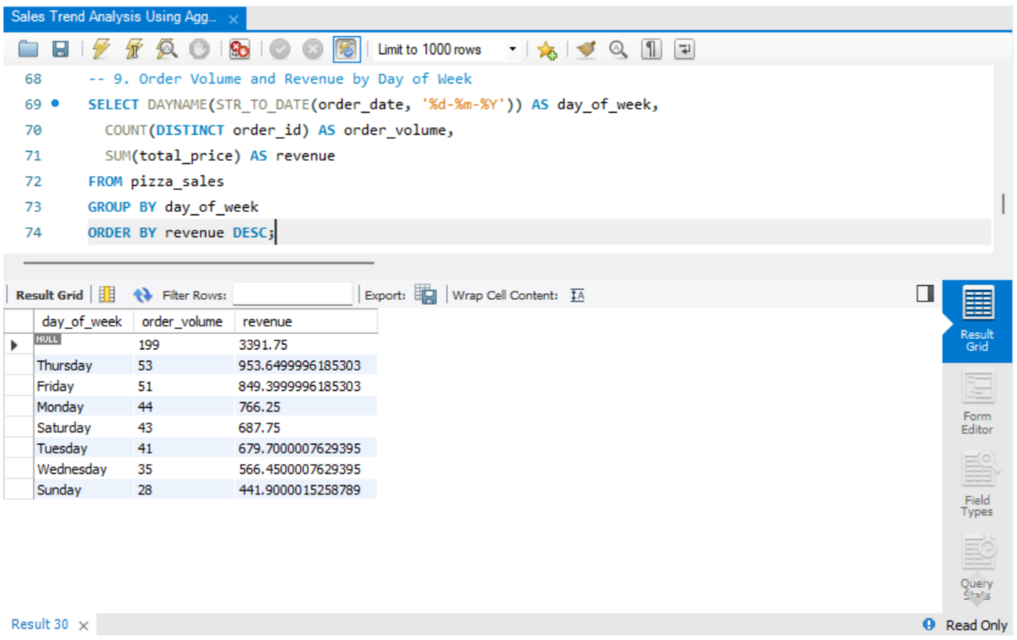
-- 8. Top 5 Pizzas by Quantity Sold
SELECT pizza_name, SUM(quantity) AS total_quantity
FROM pizza_sales
GROUP BY pizza_name
ORDER BY total_quantity DESC
LIMIT 5;



```
-- 8. Top 5 Pizzas by Quantity Sold
SELECT pizza_name, SUM(quantity) AS total_quantity
FROM pizza_sales
GROUP BY pizza_name
ORDER BY total_quantity DESC
LIMIT 5;
```

pizza_name	total_quantity
The California Chicken Pizza	32
The Pepperoni Pizza	27
The Barbecue Chicken Pizza	27
The Hawaiian Pizza	26
The Thai Chicken Pizza	26

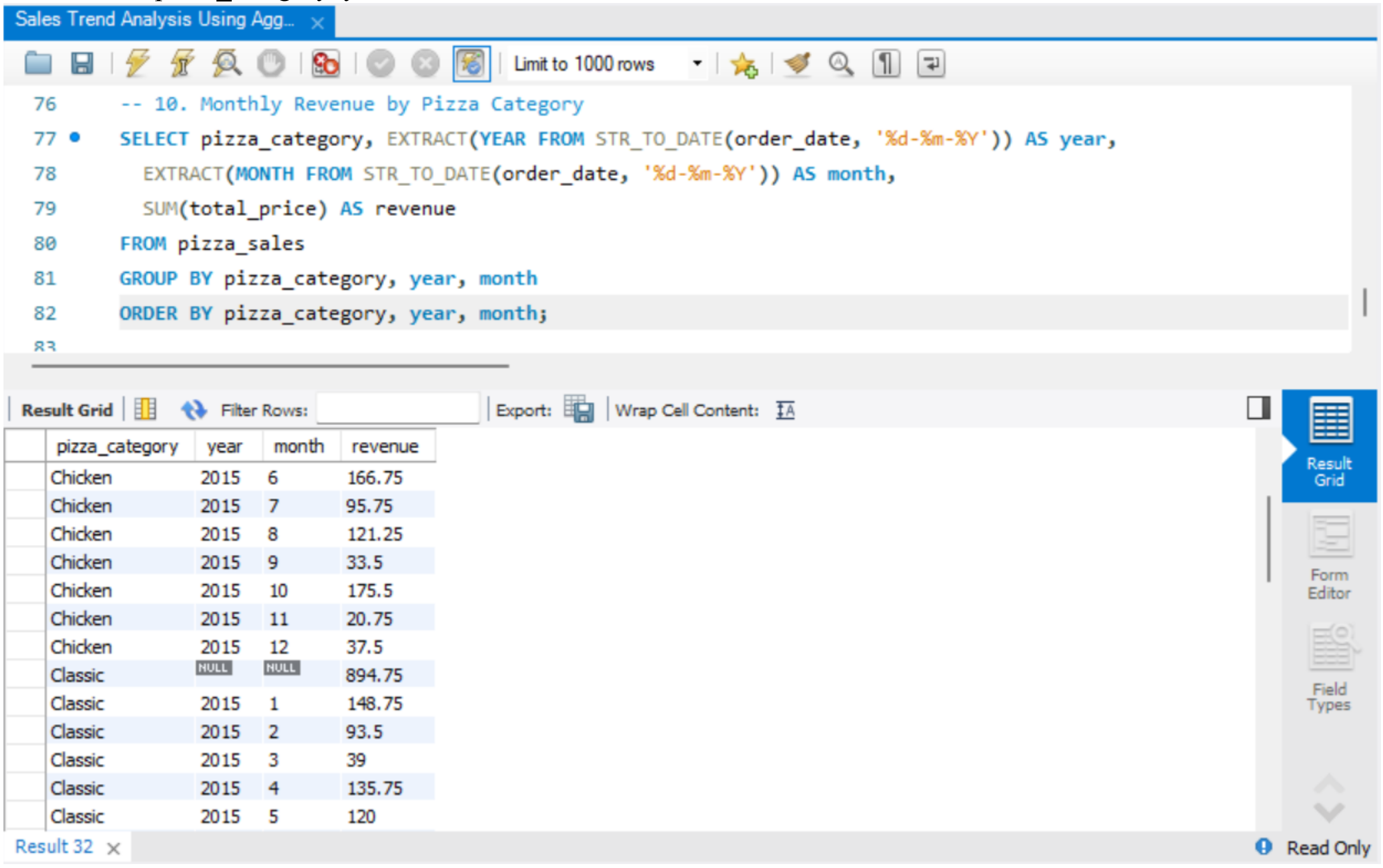
-- 9. Order Volume and Revenue by Day of Week
SELECT DAYNAME(STR_TO_DATE(order_date, '%d-%m-%Y')) AS day_of_week,
  COUNT(DISTINCT order_id) AS order_volume,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY day_of_week
ORDER BY revenue DESC;



```sql
-- 9. Order Volume and Revenue by Day of Week
SELECT DAYNAME(STR_TO_DATE(order_date, '%d-%m-%Y')) AS day_of_week,
  COUNT(DISTINCT order_id) AS order_volume,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY day_of_week
ORDER BY revenue DESC;
```

day_of_week	order_volume	revenue
NULL	199	3391.75
Thursday	53	953.6499996185303
Friday	51	849.3999996185303
Monday	44	766.25
Saturday	43	687.75
Tuesday	41	679.7000007629395
Wednesday	35	566.4500007629395
Sunday	28	441.9000015258789

```sql
-- 10. Monthly Revenue by Pizza Category
SELECT pizza_category, EXTRACT(YEAR FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS year,
  EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_category, year, month
ORDER BY pizza_category, year, month;
```



```sql
-- 10. Monthly Revenue by Pizza Category
SELECT pizza_category, EXTRACT(YEAR FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS year,
  EXTRACT(MONTH FROM STR_TO_DATE(order_date, '%d-%m-%Y')) AS month,
  SUM(total_price) AS revenue
FROM pizza_sales
GROUP BY pizza_category, year, month
ORDER BY pizza_category, year, month;
```

pizza_category	year	month	revenue
Chicken	2015	6	166.75
Chicken	2015	7	95.75
Chicken	2015	8	121.25
Chicken	2015	9	33.5
Chicken	2015	10	175.5
Chicken	2015	11	20.75
Chicken	2015	12	37.5
Classic	NULL	NULL	894.75
Classic	2015	1	148.75
Classic	2015	2	93.5
Classic	2015	3	39
Classic	2015	4	135.75
Classic	2015	5	120