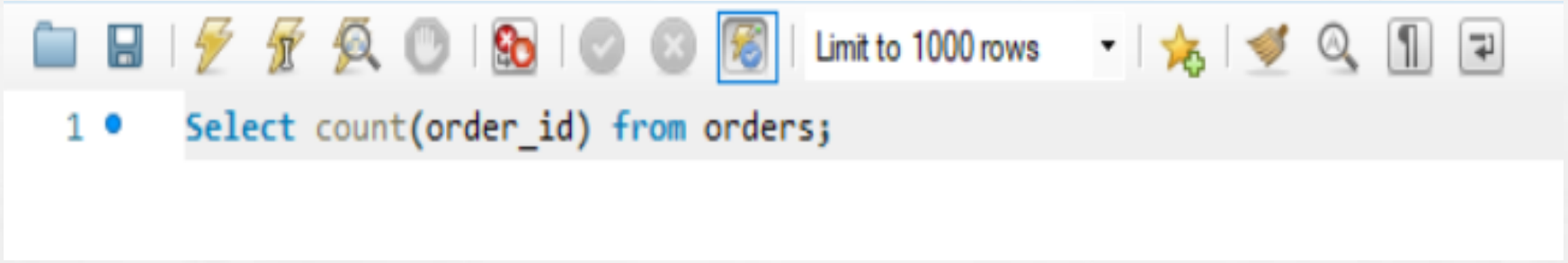
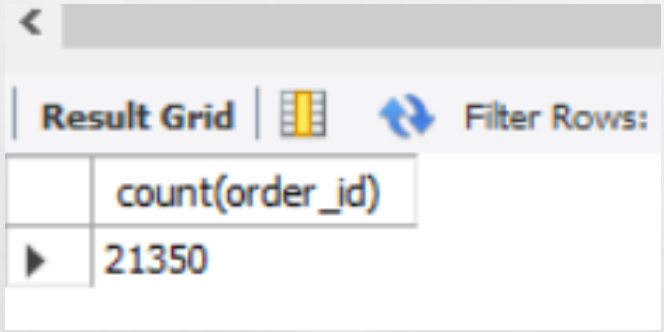
PIZZA SALES ANALYSIS – SQL PROJECT

OVERVIEW

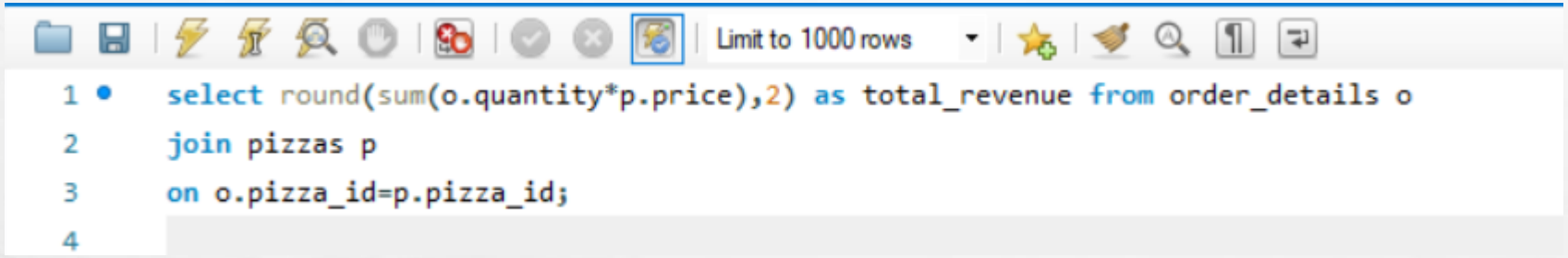
THE PIZZA COMPANY HAS A DATABASE THAT CONTAINS INFORMATION ABOUT THEIR ORDERS, CUSTOMERS, AND PRODUCTS. THEY WANT ME TO CALCULATE SOME METRICS AND TRENDS THAT CAN HELP THEM UNDERSTAND HOW THEIR BUSINESS IS DOING AND WHAT THEY CAN DO TO IMPROVE IT.

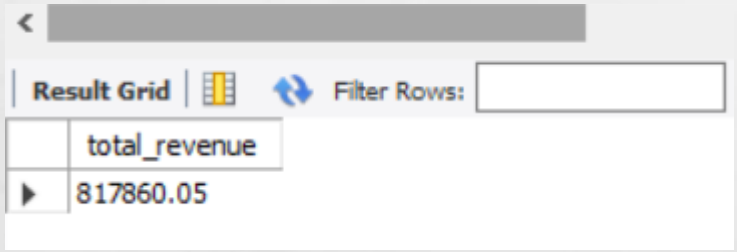
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED



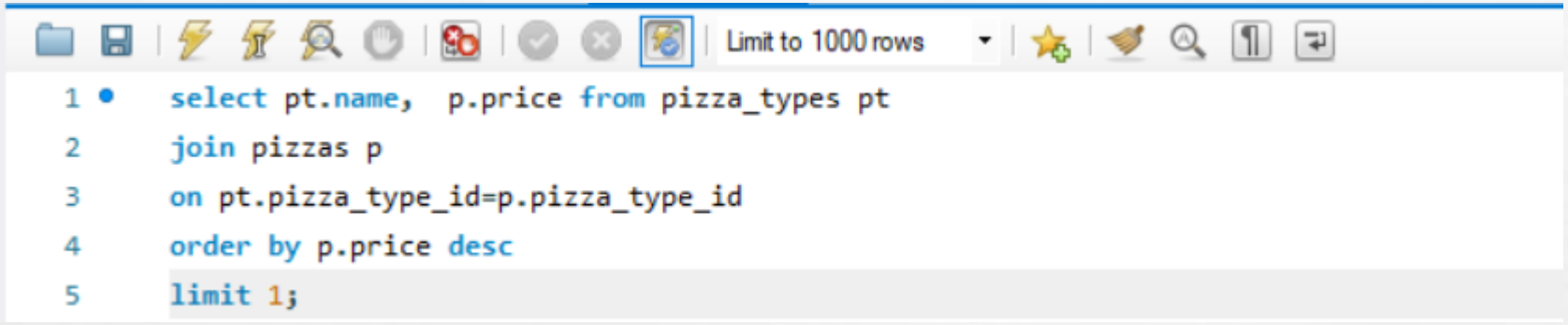


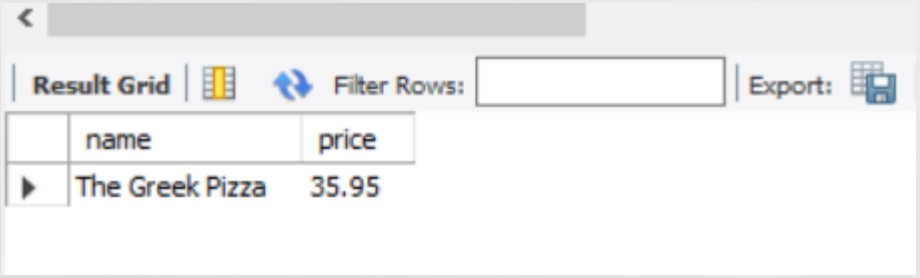
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.





IDENTIFY THE HIGHEST-PRICED PIZZA





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
1  select p.size, count(o.quantity) as common_ordered_pizza_size from order_details o
2  join pizzas p
3  on o.pizza_id=p.pizza_id
4  group by p.size
5  order by count(o.quantity) desc
6  Limit 1;
```

Result Grid | Filter Rows: | Export:

size	common_ordered_pizza_size
L	18526

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

Query 1 | SQL File 8* | SQL File 9* | SQL File 10* | SQL File 11* | SQL File 12*

Limit to 1000 rows

```sql
select pt.name, sum(o.quantity) most_ordered_pizza_type
from pizza_types pt
join pizzas p on pt.pizza_type_id=p.pizza_type_id
join order_details o on p.pizza_id=o.pizza_id
group by pt.name
order by sum(o.quantity) desc
limit 5;
```

Result Grid | Filter Rows: | Export:

name	most_ordered_pizza_type
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

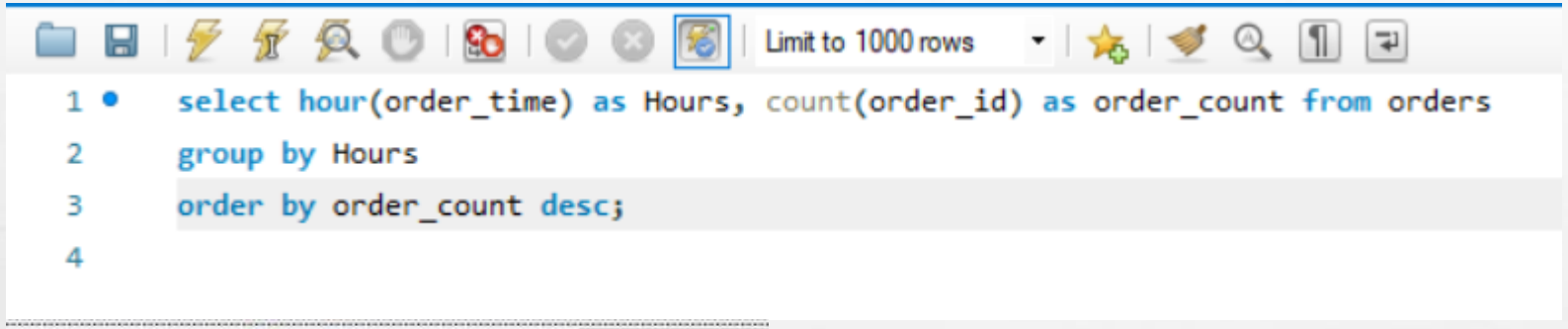
JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
1  select pt.category, sum(od.quantity) total_quantity from pizza_types pt
2  Join pizzas p on pt.pizza_type_id=p.pizza_type_id
3  Join order_details od on p.pizza_id=od.pizza_id
4  Join orders o on od.order_id=o.order_id
5  group by pt.category
6  order by sum(od.quantity);
```

Result Grid | Filter Rows: | Export:

category	total_quantity
Chicken	11050
Veggie	11649
Supreme	11987
Classic	14888

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



Result Grid | Filter Rows:

Hours	order_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

category	Pizza_name_count
Chicken	6
Classic	8
Supreme	9
Veggie	9

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

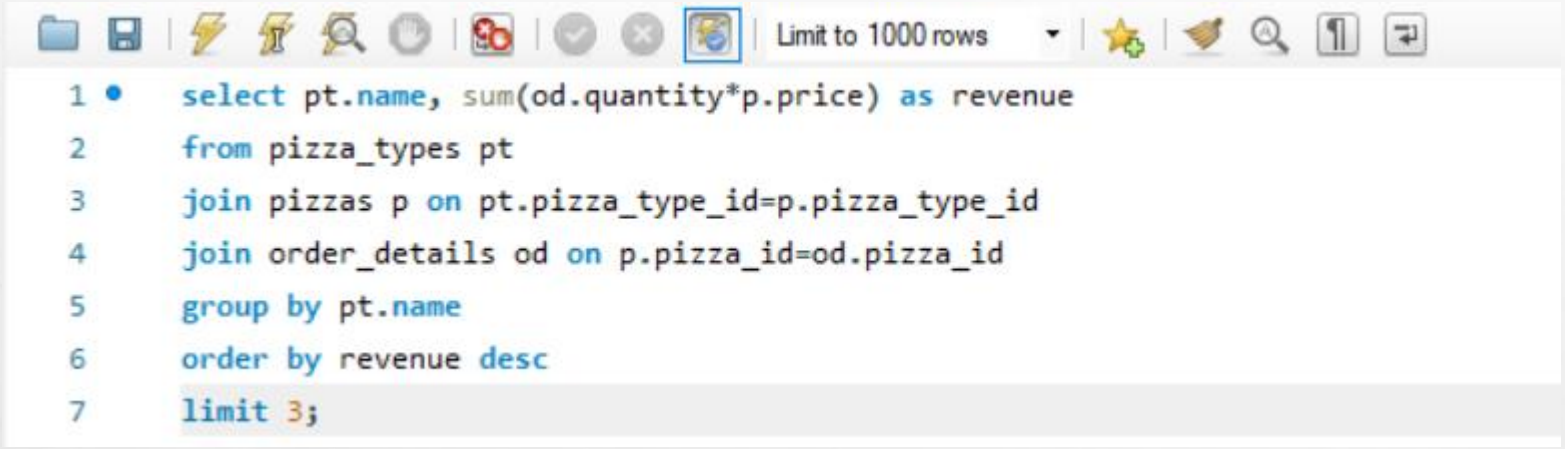
```
Limit to 1000 rows

1  Select round(avg(sum_Pizzas),0) as Avg_pizzas_per_day from
2  (Select o.order_date, sum(od.quantity) as sum_Pizzas from orders o
3  join order_details od
4  on o.order_id=od.order_id
5  group by o.order_date) as quantity_ordered;
```

Result Grid | Filter Rows: | Export:

Avg_pizzas_per_day
138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



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

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
1  select pt.category, round(sum(od.quantity*p.price)/(select round(sum(o.quantity*p.price),2) as total_revenue from order_details o
2  join pizzas p
3  on o.pizza_id=p.pizza_id)*100,2) as revenue
4  from pizza_types pt
5  join pizzas p on pt.pizza_type_id=p.pizza_type_id
6  join order_details od on p.pizza_id=od.pizza_id
7  group by pt.category
8  order by revenue desc;
```

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

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

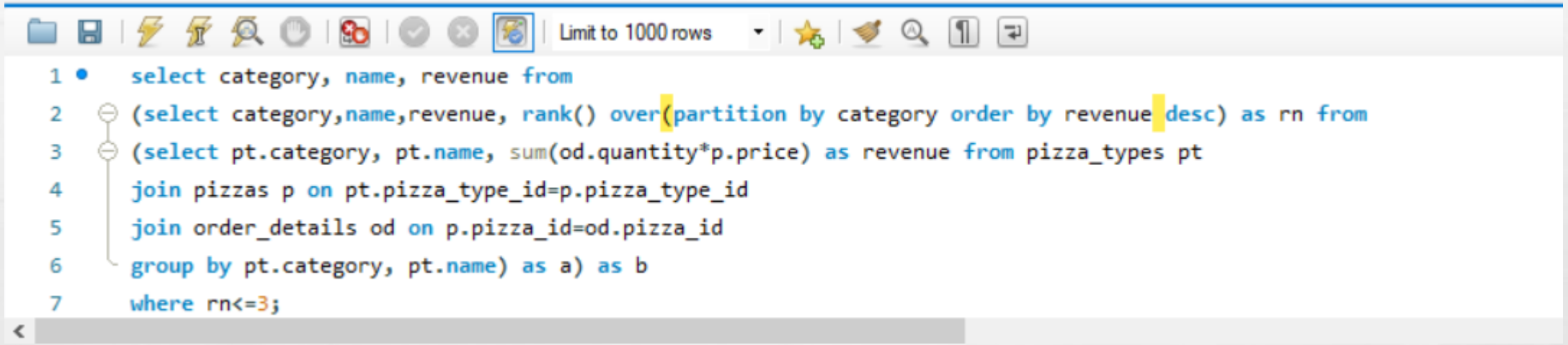
ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
1  select order_date, sum(revenue) over( order by order_date) as cum_revenue from
2  (select o.order_date, round(sum(od.quantity*p.price),2) as revenue from orders o
3  Join order_details od on o.order_id=od.order_id
4  Join pizzas p on od.pizza_id=p.pizza_id
5  group by o.order_date) as total_revenue;
```

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

order_date	cum_revenue
2015-01-01	2713.85
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.



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

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.70000000065
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5