Pizza Power

Pizza Sales
(SQL Project)

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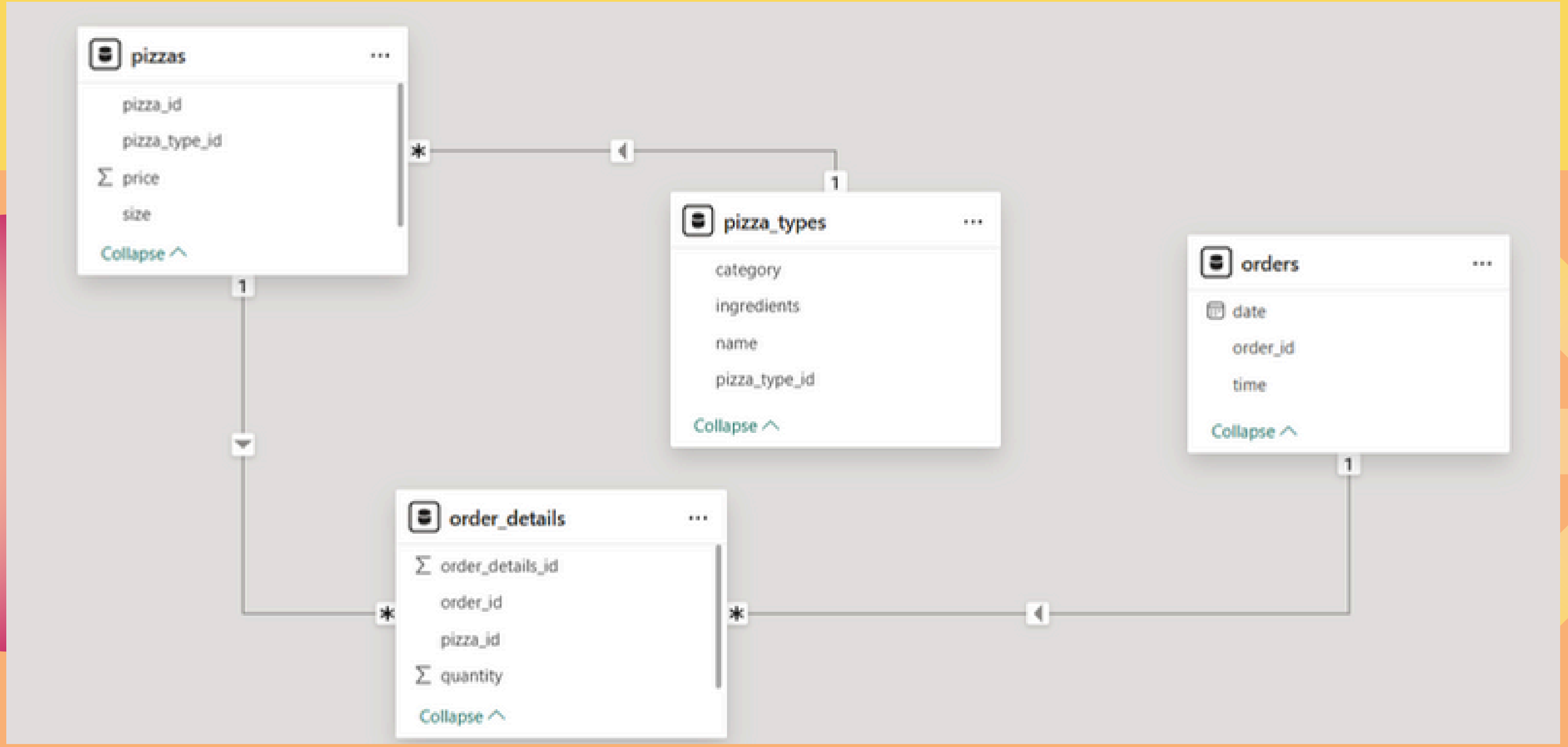
The dataset contains 4 tables:

- ORDERS
- ORDER_DETAILS
- PIZZA_TYPES
- PIZZAS

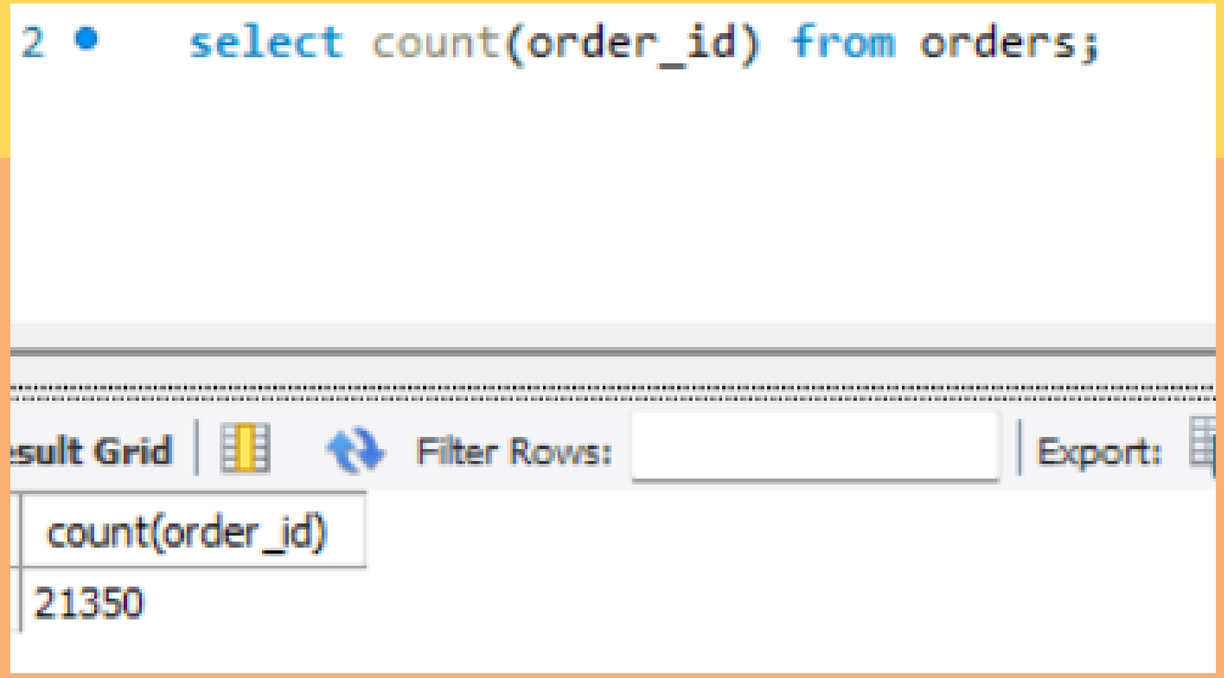
About project

In this project i solved some query based on pizza sales.

SCHEMA OF DATASETS



Retrieve the total number of orders placed.



Calculate the total revenue generated from pizza sales.

```
2    SELECT
3        ROUND(SUM(order_details.quantity * pizzas.price),
4                2) AS total_revenue
5    FROM
6        order_details
7            JOIN
8        pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

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

total_revenue
817860.05

Identify the highest-priced pizza.

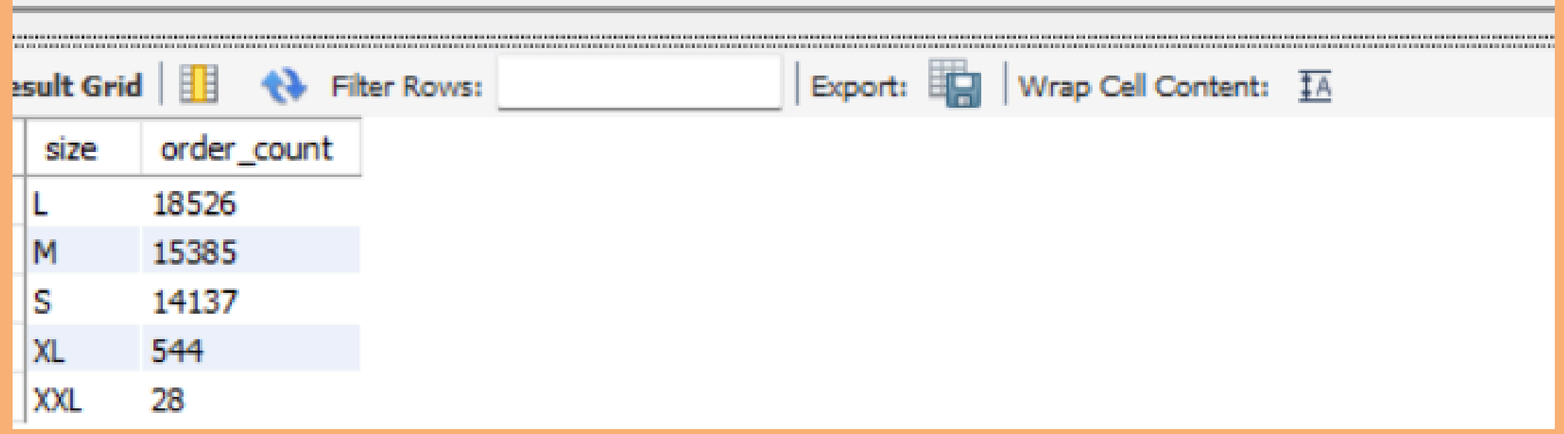
```
2    SELECT
3        pizza_types.name, pizzas.price
4    FROM
5        pizza_types
6            JOIN
7        pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8    ORDER BY pizzas.price DESC
9    LIMIT 1;
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

```sql
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```



size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28

List the top 5 most ordered pizza types along with their quantities.

```
3     select  pizza_types.name as top_5_pizza,
4     sum(order_details.quantity) as qty
5     from pizza_types join pizzas
6     on pizza_types.pizza_type_id=pizzas.pizza_type_id
7     join order_details
8     on order_details.pizza_id=pizzas.pizza_id
9     group by pizza_types.name order by qty desc limit 5;
```

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

top_5_pizza	qty
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.

```
3    select pizza_types.category,
4    sum(order_details.quantity) as qty
5    from pizza_types join pizzas
6    on pizzas.pizza_type_id=pizza_types.pizza_type_id
7    join order_details on
8    order_details.pizza_id=pizzas.pizza_id
9    group by pizza_types.category order by qty desc;
```

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

category	qty
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

```
2 •  select hour(order_time),count(order_id) from orders
3    group by hour(order_time);
```

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

hour(order_time)	count(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009

Join relevant tables to find the category-wise distribution of pizzas.

```
3 •  select category, count(name) from pizza_types
4    group by category;
```

Result Grid | Filter Rows: | Export: | Wrap C

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

Group the orders by date and calculate the average number of pizzas ordered per day.

```
3 •   select round(avg(qty),0) from
4     (select orders.order_date,sum(order_details.quantity) as qty
5     from orders join order_details
6     on orders.order_id=order_details.order_id
7     group by orders.order_date) as order_qty ;
```

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

round(avg(qty),0)
138

Determine the top 3 most ordered pizza types based on revenue.

```
3  select pizza_types.name,
4  sum(order_details.quantity *pizzas.price) as revenue
5  from pizza_types join pizzas
6  on pizza_types.pizza_type_id=pizzas.pizza_type_id
7  join order_details on
8  pizzas.pizza_id=order_details.pizza_id
9  group by pizza_types.name order by revenue desc limit
```

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

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.

```sql
select pizza_types.category,
(sum(order_details.quantity *pizzas.price)/(SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_revenue
FROM order_details JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id))*100
 as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details on
pizzas.pizza_id=order_details.pizza_id
group by pizza_types.category order by revenue desc ;
```

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

category	revenue
Classic	26.90596025566967
Supreme	25.45631126009862
Chicken	23.955137556847287
Veggie	23.682590927384577

Analyze the cumulative revenue generated over time.

```sql
select order_date,
sum(revenue) over (order by order_date) as cum_rev
from
(select orders.order_date,
sum(order_details.quantity * pizzas.price) as revenue
from order_details join pizzas
on order_details.pizza_id=pizzas.pizza_id
join orders on
orders.order_id=order_details.order_id
group by orders.order_date) as sales ;
```

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

order_date	cum_rev
2015-01-01	2713.8500000000004
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

Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```sql
select name,rev,rn from
(select category,name,rev,rank() over(partition by category
order by rev desc) as rn from
(select pizza_types.category,pizza_types.name,
sum(order_details.quantity * pizzas.price) as rev
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details on
 order_details.pizza_id=pizzas.pizza_id
 group by pizza_types.category,pizza_types.name) as catg) as catg1
 where rn<=3;
```

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

name	rev	rn
The Thai Chicken Pizza	43434.25	1
The Barbecue Chicken Pizza	42768	2
The California Chicken Pizza	41409.5	3
The Classic Deluxe Pizza	38180.5	1
The Hawaiian Pizza	32273.25	2

THANK YOU