



A Project on Pizza Hut Sales Analysis



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#### PROJECT SUMMARY

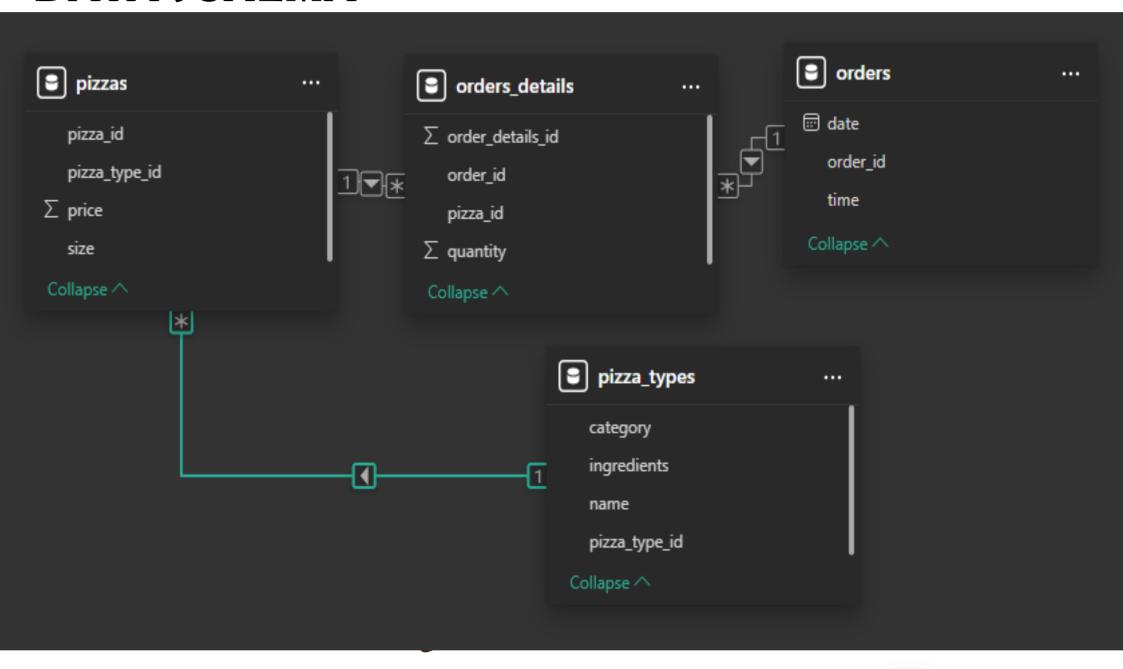


This SQL project analyzes pizza sales data to identify the top-performing pizza types across different categories based on revenue. Multiple tables (orders, pizzas, pizza types, and orders details) were joined using foreign key relationships. Revenue was calculated by multiplying quantity and price, then aggregated by pizza type and category. Using window functions like RANK(), the top 3 most ordered pizzas per category were extracted. The insights can support business decisions such as menu optimization and targeted promotional strategies.





#### **DATA SCHEMA**

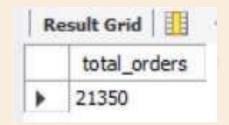






## Retrieve the total number of orders placed.

```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```







### Calculate the total revenue generated from pizza sales.

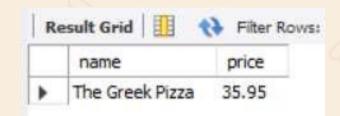






#### Identify the highest-priced pizza.

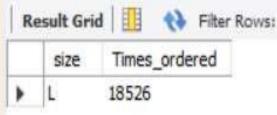
```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        LEFT JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```





#### Identify the most common pizza size ordered.

```
-- i.e. we need order_detail_id and size
SELECT
    size, COUNT(order_details_id) AS Times_ordered
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
GROUP BY (size)
ORDER BY Times_ordered DESC
LIMIT 1;
```





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

```
SELECT
   name, SUM(quantity) AS total_qty
FROM
   order_details
        JOIN
   pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
   pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY name
ORDER BY total_qty DESC
LIMIT 5
```

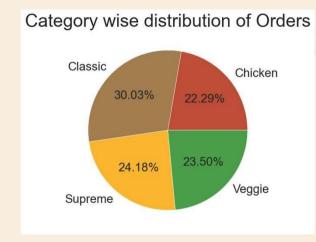
	name	total_qty
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371





# Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    category, SUM(quantity) AS total_qty
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY category
ORDER BY total_qty DESC;
```







#### Determine the distribution of orders by hour of the day.

SELECT

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

FROM

orders

GROUP BY hour

ORDER BY hour ASC;



	hour	order_count
•	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28



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

```
SELECT
    ROUND(AVG(quantity), 0)
FROM
    (SELECT
        SUM(quantity) AS quantity
FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY order_date) AS order_quantity;
```





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

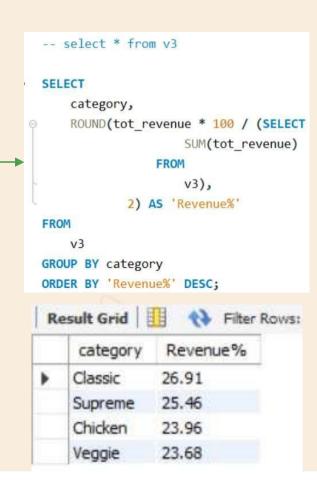
```
SELECT
   name, SUM(quantity * price) AS tot_revenue
FROM
   order_details
        JOIN
   pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
   pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY name
ORDER BY tot_revenue DESC
LIMIT 3;
```

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	name	tot_revenue
١	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

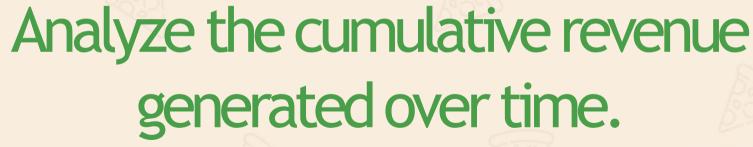


## Calculate the percentage contribution of each pizza type to total revenue.

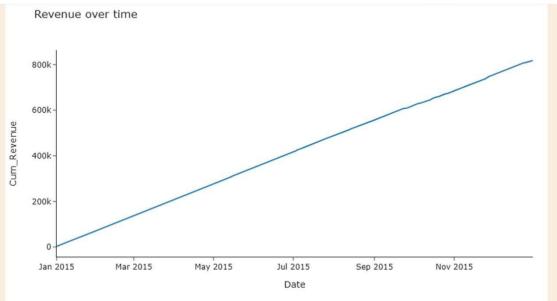
```
CREATE VIEW v3 AS
(SELECT
          category, SUM(quantity * price) AS tot_revenue
FROM
          order_details
                JOIN
          pizzas ON order_details.pizza_id = pizzas.pizza_id
                      JOIN
          pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY category
ORDER BY tot_revenue DESC);
```







```
-- CUMULATIVE SUM
select order_date, round(sum(revenue) over(order by order_date),2) as cum_revenue
from (select order_date, round(sum(quantity*price),2) as revenue
from order_details join orders
on order_details.order_id =orders.order_id
join pizzas on pizzas.pizza_id = order_details.pizza_id
group by order_date order by order_date) as sales;
```







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

```
-- RANK
  select category, name, revenue from
(select category, name, revenue,
  rank() over(partition by category order by revenue desc) as class from
(select category, name, sum(quantity* price) as revenue from
  order details join pizzas on order details.pizza id =pizzas.pizza id
  join pizza_types on pizza_types.pizza_type_id =pizzas.pizza_type_id_Result Grid | 11
                                                                                                   category
  group by category, name) as a) as b where class <=3;
                                                                                                          The Thai Chicken Pizza
                                                                                                   Chicken
                                                                                                                              43434.25
                                                                                                   Chicken
                                                                                                          The Barbecue Chicken Pizza
                                                                                                                              42768
                                                                                                          The California Chicken Pizza
                                                                                                   Chicken
                                                                                                                              41409.5
                                                                                                          The Classic Deluxe Pizza
                                                                                                   Classic
                                                                                                                              38180.5
                                                                                                   Classic
                                                                                                          The Hawaiian Pizza
                                                                                                                              32273.25
                                                                                                   Classic
                                                                                                          The Pepperoni Pizza
                                                                                                                              30161.75
                                                                                                   Supreme
                                                                                                          The Spicy Italian Pizza
                                                                                                                              34831.25
                                                                                                          The Italian Supreme Pizza
                                                                                                                              33476.75
                                                                                                   Supreme
                                                                                                          The Sicilian Pizza
                                                                                                                              30940.5
                                                                                                          The Four Cheese Pizza
                                                                                                                              32265.70
                                                                                                   Veggie
                                                                                                          The Mexicana Pizza
                                                                                                                              26780.75
                                                                                                   Veggie
```



Veggie

The Five Cheese Pizza

26066.5





#### THANKS



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