

Hemang Taori

Hello, I'm Hemang Taori. I have developed this project to analyze pizza sales for a store, providing insights by addressing key questions that assist the café owner in making informed business decisions.



QUESTIONS



Basic:

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.

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

Intermediate:

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

Determine the distribution of orders by hour of the day.

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

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

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

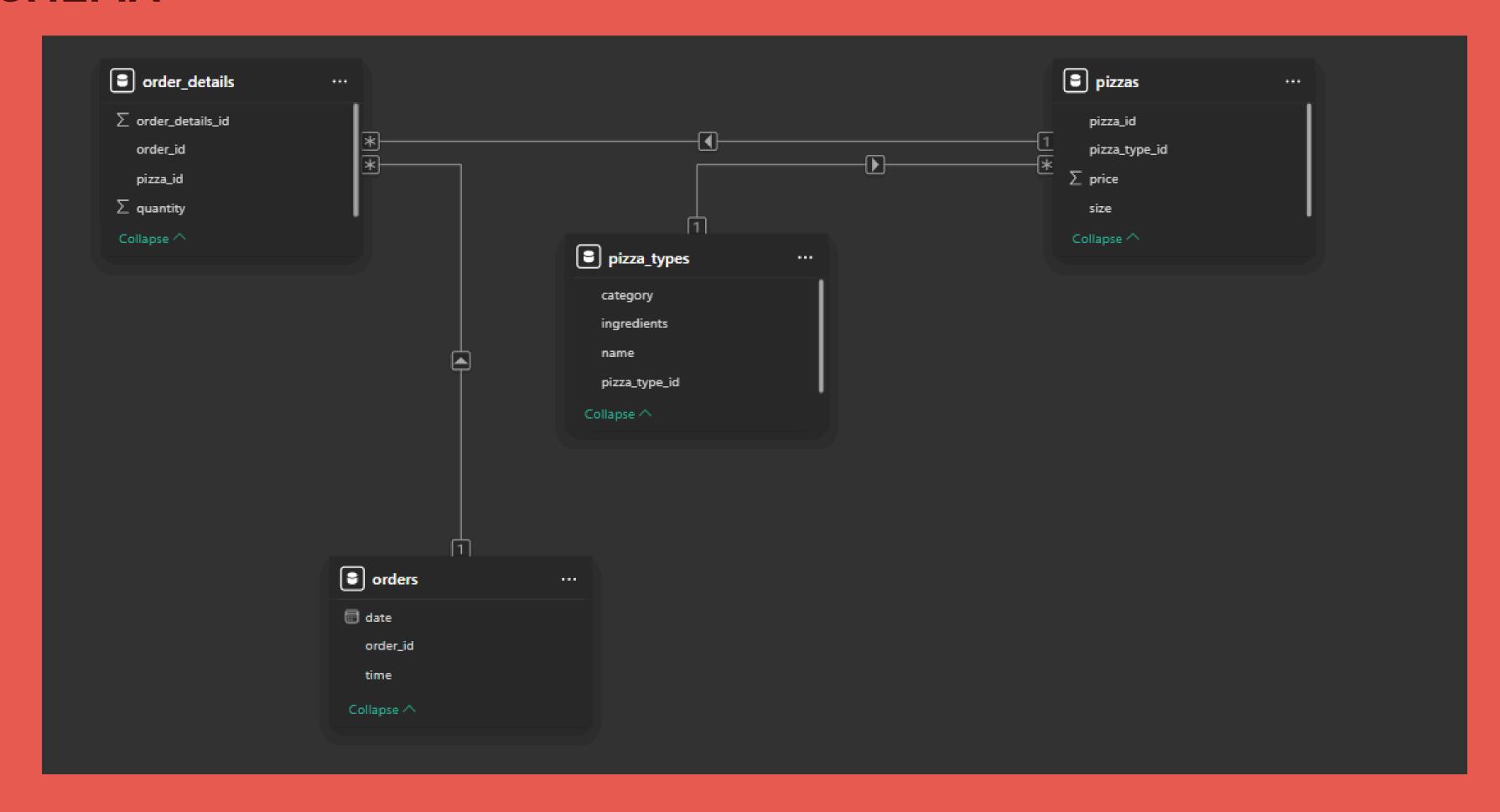
Advanced:

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

Analyze the cumulative revenue generated over time.

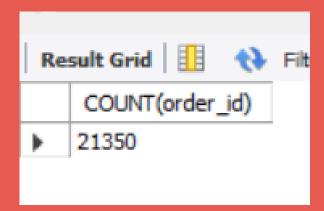
Determine the top 3 most ordered pizza types based on revenue for each pizza category.

SCHEMA



1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

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



2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price)) AS revenue

FROM

order_details

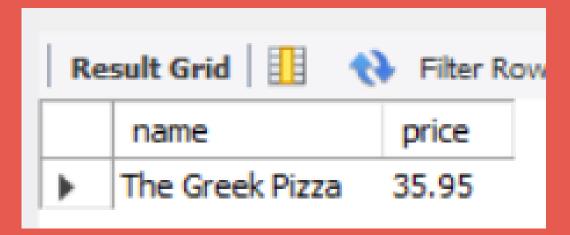
JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

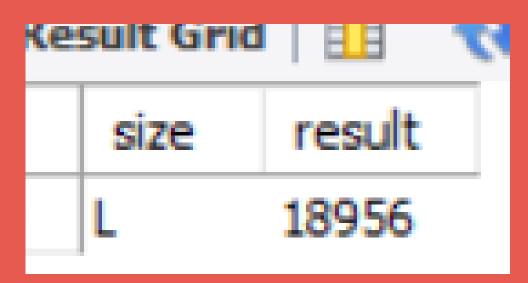


3. IDENTIFY THE HIGHEST PRICED PIZZA

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



4.IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED



5.LIST THE TOP 5 MOST ORDERED PIZZAS ALONG WITH THEIR QUANTITIES

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS result
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.name
ORDER BY result DESC
LIMIT 5;
```

_		
Re	sult Grid 🔠 \infty Filter Row	S:
	name	result
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371
	-	

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

```
SELECT
    pizza_types.category, SUM(order_details.quantity) AS result
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 result DESC;
```

Re	sult Grid	()	Fil
	category	result	
•	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

7. DETERMINE THE DISTRIBUTION OF ORDERS BY THE HOUR OF THE DAY.

```
SELECT

HOUR(orders.order_time) AS hours,

COUNT(orders.order_id) AS count

FROM

orders

GROUP BY hours;
```

_			
Re	sult Grid	#	
	hours	count	
•	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1040	

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

```
SELECT

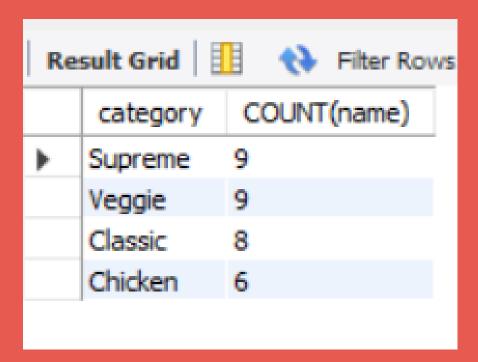
category, COUNT(name)

FROM

pizza_types

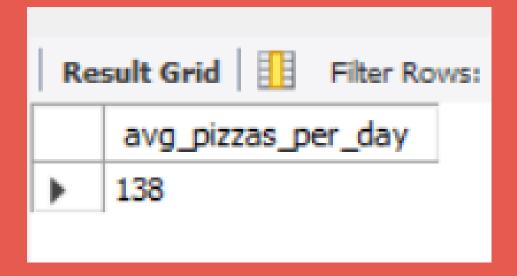
GROUP BY category

ORDER BY COUNT(name) DESC;
```



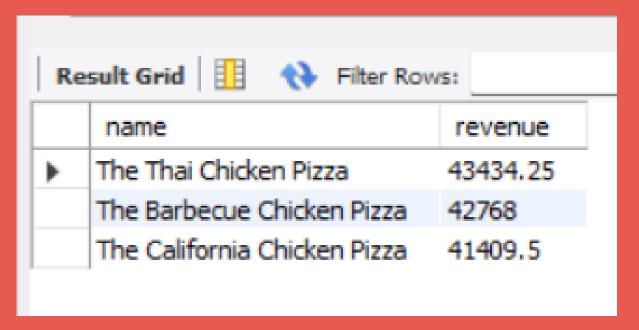
9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
With a as (select
  date(orders.order_date) as date, sum(order_details.quantity) as revenue
  from orders join order_details
  on orders.order_id = order_details.order_id
  group by date)
  select round(avg(revenue),0) as avg_pizzas_per_day from a;
```



10.DETERMINE THE TOP 3 PIZZAS ORDERED BY REVENUE

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) 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.name
ORDER BY revenue DESC
LIMIT 3;
```



11. CALCULATE THE PERCENTAGE CONTRIBUTED OF EACH PIZZA CATEGORY TO THE TOTAL REVENUE

```
SELECT
   pizza_types.category,
    SUM(order_details.quantity * pizzas.price * 100) / (SELECT
            SUM(order_details.quantity * pizzas.price)
        FROM
            order_details
                JOIN
            pizzas ON order_details.pizza_id = pizzas.pizza_id) AS a
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 a DESC;
```

Result Grid		
	category	a
	Classic	26.905960255669893
	Supreme	25.45631126009906
	Chicken	23.955137556847493
	Veggie	23.682590927384418
	-	

12. ANALYZE THE CUMMALTIVE REVENUE GENERATED OVER TIME

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

_		
Re	sult Grid	Filter Rows:
	July Grid III	V The Royal
	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
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015 01 10	22000 25000000000

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

```
with ranked_pizzas as
select
pizza_types.category, pizza_types.name, sum(order_details.quantity * pizzas.price) as net_profit,
rank() over(partition by pizza_types.category order by sum(order_details.quantity * pizzas.price) desc) as rank_num
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, pizza_types.name
select category, name, net_profit
from ranked_pizzas
where rank_num<=3
order by category, net_profit desc;
```

Re	esult Grid	Filter Rows:	Export: Wrap Cel
	category	name	net_profit
•	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
	M:-	The Ferri Channer Nissa	22200 7000000000

THANK YOU!!!