



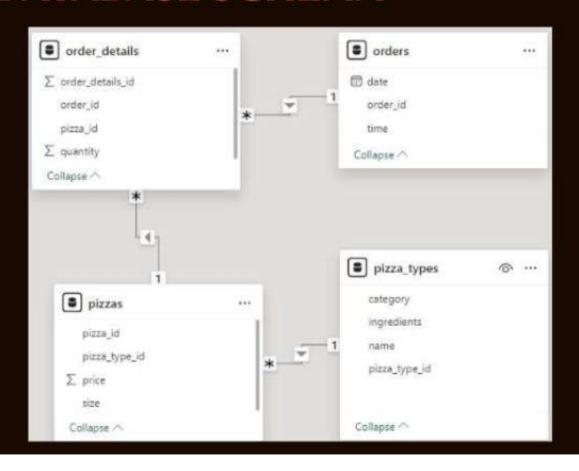


This project uses SQL to analyze the dataset of pizza sales. The goal is to gain valuable insights into the sales operations, including customer segmentation, trends, artist effectiveness and growth, customer interests, and expenditure patterns and revenue.

Brian Saldanha



DATABASE SCHEMA







THE MAIN QUERIES WE ARE LOOKING AT ARE

- 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.
- 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.
- · 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.

Brian Saldanha



1 RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT

COUNT(order_id) AS Total_Orders

FROM

orders;
```

Total_Orders

≥ 21350

2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
ROUND(SUM(d.quantity * p.price), 3) AS totalsales
FROM
order_details d
JOIN
pizzas p USING (pizza_id)
```

totalsales

817860.05







3. IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT

t.name, t.category, p.price

FROM

pizza_types t

JOIN

pizzas p USING (pizza_type_id)

ORDER BY p.price DESC

LIMIT 1;
```

▶ The Greek Pizza Classic 35.95		name	category	price
	۲	The Greek Pizza	Classic	35.95

SQL PIZZA SALES

4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT

p.size, COUNT(d.quantity) 'no of orders'

FROM

pizzas p

JOIN

order_details d USING (pizza_id)

GROUP BY p.size

ORDER BY COUNT(d.quantity) DESC
```

	size	no of orders	
٠	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	









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

```
T.pizza_type_id, t.name, SUM(d.quantity) AS 'no of orders'

FROM

pizza_types t

JOIN

pizzas p USING (pizza_type_id)

JOIN

order_details d USING (pizza_id)

GROUP BY t.name , t.pizza_type_id

ORDER BY 'no of orders' DESC

LIMIT 5
```

	pizza_type_id	name	no of orders
۰	hawaiian	The Hawaiian Pizza	2422
	dassic_dlx	The Classic Deluxe Pizza	2453
	five_cheese	The Five Cheese Pizza	1409
	ital_supr	The Italian Supreme Pizza	1884
	mexicana	The Mexicana Pizza	1484

Brian Saldanha

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

```
T.category, SUM(d.quantity) AS quantity

FROM

pizza_types t

JOIN

pizzas p USING (pizza_type_id)

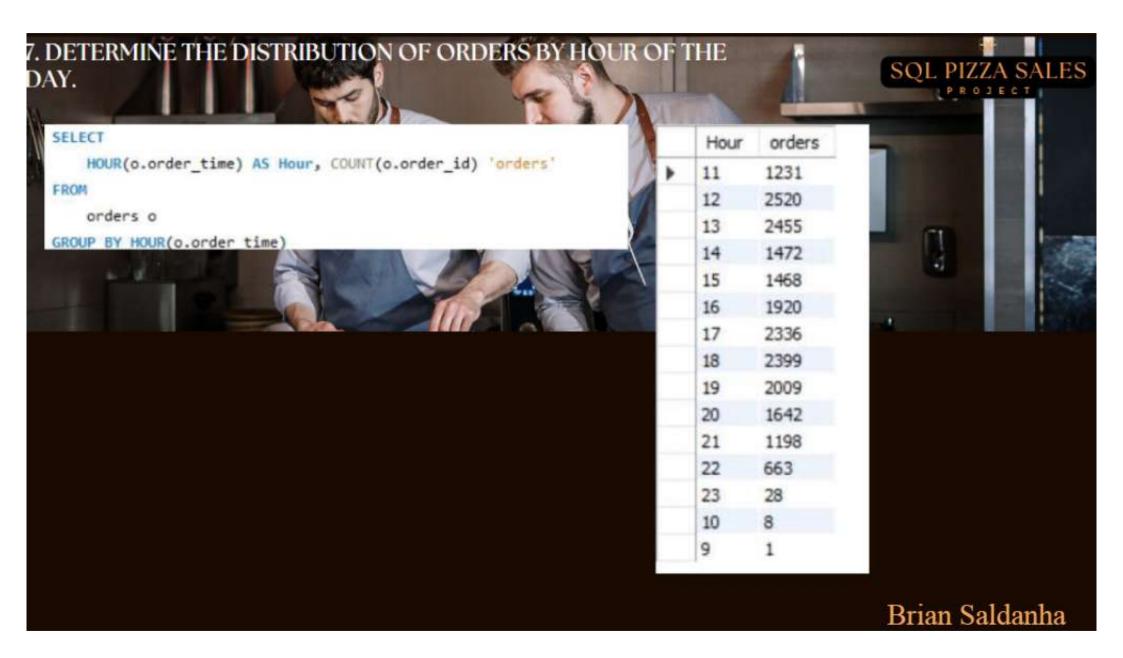
order_details d USING (pizza_id)

GROUP BY t.category

ORDER BY quantity DESC
```

	category	quantity
۰	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





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

```
Category, COUNT(name) Distribution

FROM

pizza_types

GROUP BY category

ORDER BY distribution DESC
```

	category	Distribution
٠	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6







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

138

```
SQL PIZZA SALES
```

```
--- way 1 by CTE
                                                             WAY 1
with data as(SELECT
                                                             BY CTE
   o.order date, SUM(d.quantity) AS quantity
FROM
   orders o
       COTN
   order_details d USING (order_id)
GROUP BY o.order date
                                                                                                             WAY 2
ORDER BY o.order_date)
                                                                                                            BY SUBQUERY
SELECT
                                                      --- way 2 BY SUBQUERY
   ROUND(AVG(quantity), 0) 'avg. order per day'
                                                      SELECT
FROM
                                                          ROUND(AVG(quantity), 0) 'avg. order per day'
   data
                                                      FROM
                                                          (SELECT
                                                              orders.order date, SUM(order details.quantity) AS quantity
                                                          FROM
           avg. order per
                                                              orders
           day
```

JOIN order_details USING (order_id)

GROUP BY orders.order_date) AS order_quantity

-Brian Saldanha

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

```
SQL PIZZA SALES
```

```
SELECT

t.name, SUM(p.price * d.quantity) AS Revenue

FROM

pizzas p

JOIN

pizza_types t USING (pizza_type_id)

JOIN

order_details d USING (pizza_id)

GROUP BY t.name

ORDER BY Revenue DESC

LIMIT 3
```

	name	Revenue
Þ	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



-Brian Saldanha

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

```
t.category AS category,
(SUM(p.price * d.quantity) / (SELECT

ROUND(SUM(d.quantity * p.price), 3) AS totalsales

FROM

order_details d

JOIN

pizzas p USING (pizza_id)))*100 as revenue

from pizza_types t

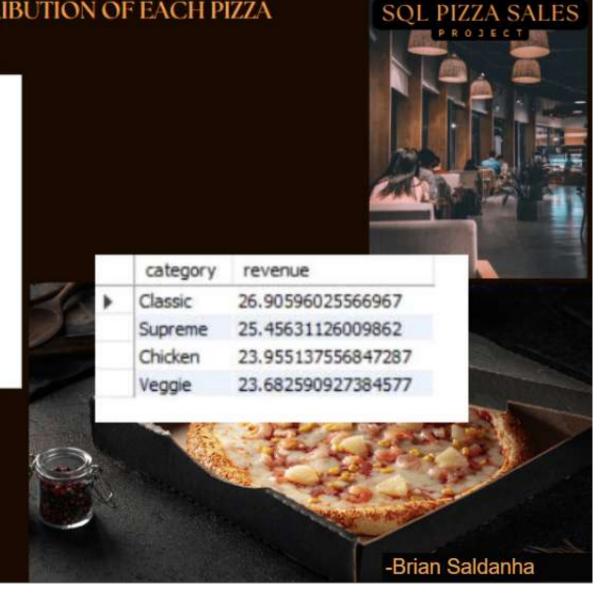
JOIN

pizzas p USING (pizza_type_id)

JOIN

order_details d USING (pizza_id)

GROUP BY t.category
order by revenue desc
```



12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

SQL PIZZA SALES



	order_date	cum_revenue
•	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	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	Brian Saldanha
	2015-01-15	34343 50000001 DITAII Saldallila

13. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
SELECT * FROM

(SELECT CATEGORY , NAME , REVENUE , RANK() OVER( PARTITION BY CATEGORY ORDER BY REVENUE DESC) AS RN

FROM

(SELECT

T.CATEGORY, T.NAME, SUM(D.QUANTITY * P.PRICE) AS REVENUE

FROM

PIZZA_TYPES T

JOIN

PIZZAS P USING (PIZZA_TYPE_ID)

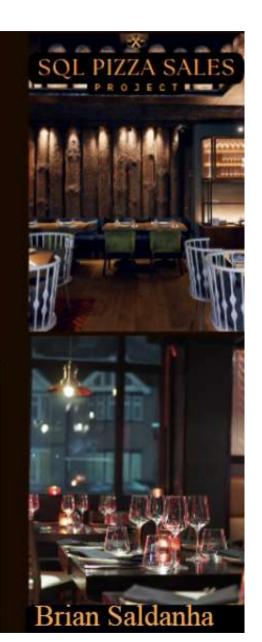
JOIN

ORDER_DETAILS D USING (PIZZA_ID)

GROUP BY T.CATEGORY , T.NAME) AS A) AS B

NHERE RN <= 3
```

	CATEGORY	NAME	REVENUE	RN
٠	Chicken	The Thai Chicken Pizza	43434.25	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3
	Classic	The Classic Deluxe Pizza	38180.5	1
	Classic	The Hawaiian Pizza	32273.25	2
	Classic	The Pepperoni Pizza	30161.75	3
	Supreme	The Spicy Italian Pizza	34831.25	1
	Supreme	The Italian Supreme Pizza	33476.75	2
	Supreme	The Sicilian Pizza	30940.5	3
	Veggie	The Four Cheese Pizza	32265.70000000065	1
	Veggie	The Mexicana Pizza	26780.75	2
	Veggie	The Five Cheese Pizza	26066.5	3





THANKYOU



