

Slice Haven



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Slice Haven is a cozy retreat for pizza aficionados, where every slice tells a delicious story. Nestled in the heart of town, it's a haven for those seeking a perfect blend of crispy crust, savory toppings, and gooey cheese. With a menu that caters to both traditionalists and adventurous eaters alike, Slice Haven promises an unforgettable culinary journey with every bite.



Hi , I am the main chef and owner of the Slice Haven.Slice Haven is a family owned secret recipe pizza that has been pass down for generation with incredible delicacy.



The SQL report we've developed is a robust compilation of queries, offering in-depth insights into Slice Haven's operations. It encompasses a variety of queries tailored to analyze sales data top 3 most ordered pizza types, total revenue generated ,highest-priced pizza, most common pizza size ordered, top 5 most ordered pizza types along with their quantities. These queries enable stakeholders to explore trends, identify patterns, and extract actionable insights to drive strategic decision-making. the SQL report provides a comprehensive view of Slice Haven's performance, empowering management to optimize processes and enhance the overall dining experience.

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(price * quantity),2) AS total_revenue  
from pizzas JOIN  
order_details USING (pizza_id);
```

	total_revenue
▶	817599.75

3. Identify the highest-priced pizza.

```
SELECT name, price  
FROM pizzas JOIN pizza_types  
ORDER BY price DESC LIMIT 1;
```

name	price
The Barbecue Chicken Pizza	35.95

4. Identify the most common pizza size ordered.

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

size	order_count
L	18521
M	15374
S	14139
XL	545
XXL	28

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

```
SELECT name, SUM(quantity) AS quantity from  
pizza_types JOIN pizzas USING (pizza_type_id)  
JOIN order_details USING (pizza_id)  
GROUP BY ORDER BY quantity LIMIT 5;
```

name	quantity
The Classic Deluxe Pizza	2454
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2424
The Pepperoni Pizza	2422
The California Chicken Pizza	2367

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

```
SELECT p_t.category, SUM(quantity) AS total_quantity  
FROM pizza_types AS p_t JOIN pizzas AS p USING (pizza_type_id) JOIN  
order_details AS o_d  
USING (pizza_id) GROUP BY p_t.category ORDER BY total_quantity DESC;
```

category	total_quantity
Classic	14900
Supreme	11979
Veggie	11651
Chicken	11032

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

```
SELECT COUNT(name), category  
FROM pizza_types GROUP BY category;
```

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

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

```
SELECT ROUND(AVG(Total_Quantity), 2) FROM (SELECT  
order_date, SUM(quantity) AS Total_Quantity FROM orders  
JOIN order_details USING (order_id) GROUP BY order_date) AS  
order_quantity;
```

ROUND(AVG(Total_Quantity), 2)

138.48

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

```
SELECT name, ROUND(SUM((price * quantity)), 0) AS  
      Total_Revenue  
  FROM pizza_types JOIN pizzas USING (pizza_type_id)  
JOIN order_details USING (pizza_id) GROUP BY name ORDER BY  
      Total_Revenue DESC LIMIT 3;
```

name	Total_Revenue
The Thai Chicken Pizza	43346
The Barbecue Chicken Pizza	42780
The California Chicken Pizza	41355

10.Analyze the cumulative revenue generated over time.

```
select order_date, sum(revenue) over (partition by order_date) as cum_revenue from(select order_date,ROUND(SUM(price * quantity)
```

2) AS revenue FROM pizzas JOIN order_details USING (pizza_id) join orders using(order_id) group by order_date) as sales;

order_date	cum_revenue
2015-01-01	3204.55
2015-01-02	3353.4
2015-01-03	2856.9
2015-01-04	1755.45
2015-01-05	2065.95