

PIZZA SALES ANALYSIS

BUSINESS INSIGHTS USING SQL



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➢ Detailed Project Summary − Pizza Sales Analysis (SQL)

This project focuses on analyzing Pizza Hut sales data using SQL to uncover valuable business insights. The dataset, consisting of approximately 50,000 records spread across four files (pizza_types.csv, pizzas.csv, orders.sql, and order_details.sql), provided details about pizza categories, sizes, prices, customer orders, and sales transactions.

The analysis was structured to answer 10 business questions aimed at evaluating revenue generation, customer behavior, product performance, and operational trends.



1 Total Orders Placed

The total number of unique orders placed was 21,350.

2 Total Revenue Generated

Revenue was computed using the formula quantity \times price. The total revenue generated from pizza sales was \$817,860.

3 Highest-Priced Pizza

The Greek Pizza was the highest-priced item, at \$35.95.

4 Most Common Pizza Size Ordered

Among the five available sizes, Large (L) pizzas were most popular with 18,526 orders, followed by Medium (15,385) and Small (14,137).

5 Top 5 Most Ordered Pizzas

Ranked by order quantity, the top 5 pizzas highlighted consistent customer preferences and demand concentration among certain SKUs.

6 Category-Wise Quantity Ordered

By grouping pizzas into categories (Classic, Supreme, Chicken, Veggie), Classic pizzas emerged as the most popular with 14,888 orders.

7 Order Distribution by Hour

Peak demand occurred between 12 PM – 1 PM, where orders exceeded 2,500 per hour.

8 Category-Wise Pizza Distribution

Both Classic and Chicken pizzas were leaders in overall distribution, reflecting strong customer preference.

9 Average Pizzas Ordered per Day

On average, 138 pizzas were sold per day, an important metric for inventory planning and forecasting.

Top 3 Pizzas by Revenue

Ranked by revenue contribution, the top 3 pizzas were:

- Thai Chicken Pizza \rightarrow \$43,434.25
- Barbecue Chicken Pizza → \$42,768.00
- California Chicken Pizza → \$41,409.50



Key Business Insights

- Revenue Drivers: Chicken-based pizzas consistently dominated both sales and revenue.
- Peak Hours: Lunchtime (12–1 PM) generated the highest sales volumes.
- Size Preference: Large pizzas (L) were overwhelmingly popular.
- § Premium Pricing: The Greek Pizza was the most expensive but not a top seller.
- Top Performer: The Thai Chicken Pizza was the single largest revenue contributor.
- The Category Trends: Classic and Chicken pizzas drove the majority of customer demand.



This SQL-based analysis of Pizza Hut's sales data provided actionable insights into product performance, customer behavior, and sales patterns.

Key outcomes include:

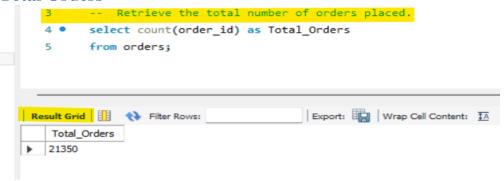
- Menu Engineering: Focus on high-revenue pizzas and optimize underperforming ones.
- **Operational Planning:** Align staffing with peak lunchtime demand.
- Promotions & Marketing: Bundle deals and targeted offers for popular sizes and categories.

Through structured SQL queries, this project transformed raw data into business intelligence that can directly guide decision-making, menu optimization, and growth strategies.

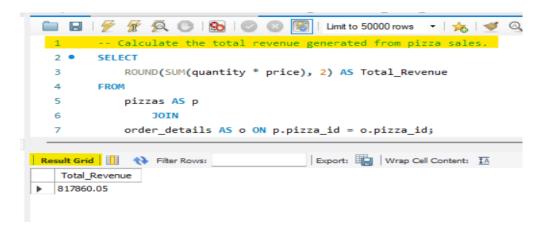
Screenshots for each queries have been pasted below for reference:



Total Orders

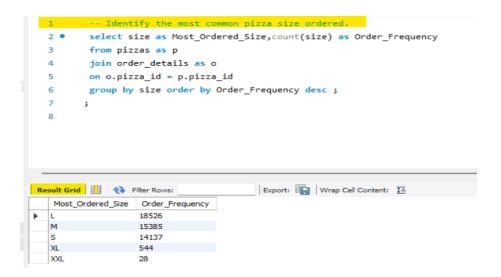


Total Revenue

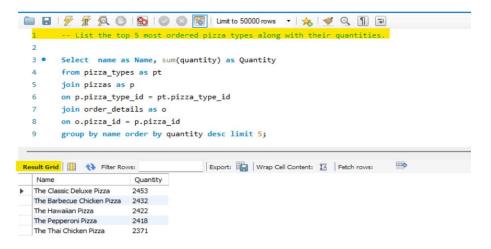


Highest Priced Pizza

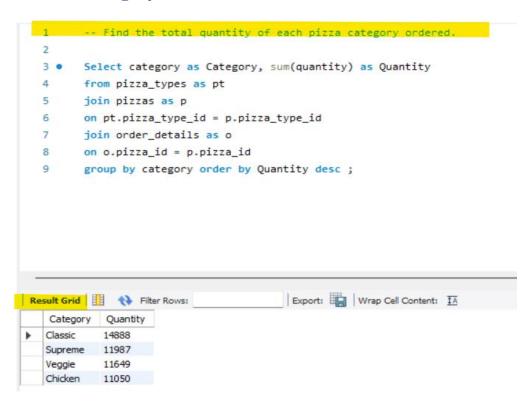
Most Ordered Pizza Size



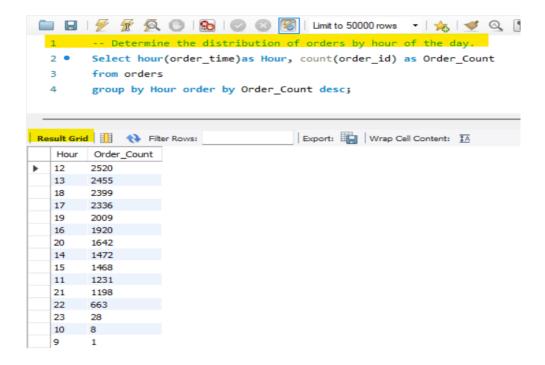
Top 5 Most Ordered Pizzas



Most Ordered Category

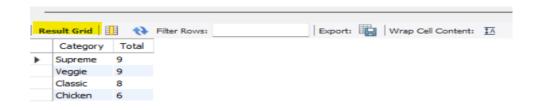


Hours of Maximum Sales



Category Distribution

```
1    -- Find the category-wise distribution of pizzas.
2
3    Select Category, count(Category) as Total
4    from pizza_types
5    group by category order by Total desc;
```



Average Pizza Sold Per Day

Top 3 Most Selling Pizzas

