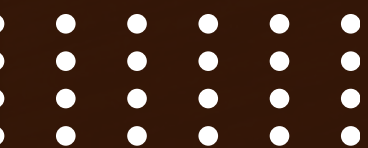


SQL PROJECT ON PIZZA SALES



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ABOUT THE PROJECT

Pizza Sales Analysis

This project focuses on analyzing pizza sales data using SQL to derive valuable insights into sales trends, customer preferences, and business performance.

By querying the data, this project aims to identify popular pizza flavors, track sales over time, and optimize revenue management. Through various SQL operations, the project demonstrates the power of database management and query techniques to inform strategic business decisions in the pizza industry.



DATABASE : PIZZAHUT

Short Info About Database

A database in SQL is an organized collection of structured data stored in tables, which can be easily accessed, managed, and updated using SQL (Structured Query Language). It allows for the efficient storage, retrieval, and manipulation of data in a systematic way, ensuring data integrity, security, and scalability.



The database PIZZAHUT contains tables with information on customer orders, date, time, pizza types, sales transactions, quantity, ingredients and much more.



Q1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

Result Grid	
	total_orders
▶	21350



Q2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
    ROUND(SUM(orders_details.quantity * pizzas.price),
          2) AS total_sales
FROM
    orders_details
    JOIN
    pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

Q3. 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;
```

Result Grid   Filter Rows		
	name	price
▶	The Greek Pizza	35.95

Q4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS order_count
FROM
    pizzas
    JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid			Filter
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

Q5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

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

Result Grid			Filter Rows:
	name	quantity	
▶	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	

Q6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

Result Grid			Filter
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

Q7. 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_time);
```

	hour	order_count
▶	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
	10	8
	9	1

Q8. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Q9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

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

Result Grid		Filter Rows:
	avg_pizzas_ordered_per_day	
▶	138	

Q10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

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

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

Q11. ANALYZE THE REVENUE GENERATED OVER TIME.

```
SELECT
    orders.order_date,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    orders_details
    JOIN
    pizzas ON orders_details.pizza_id = pizzas.pizza_id
    JOIN
    orders ON orders.order_id = orders_details.order_id
GROUP BY orders.order_date;
```

order_date	revenue
2015-01-01	2713.85000000000004
2015-01-02	2731.89999999999996
2015-01-03	2662.39999999999996
2015-01-04	1755.45000000000003
2015-01-05	2065.95
2015-01-06	2428.95
2015-01-07	2202.20000000000003
2015-01-08	2838.34999999999995
2015-01-09	2127.35000000000004
2015-01-10	2463.95
2015-01-11	1872.30000000000002
2015-01-12	1919.05000000000002
2015-01-13	2049.60000000000004
2015-01-14	2527.39999999999996
2015-01-15	1984.80000000000002
2015-01-16	2594.15
2015-01-17	2064.10000000000004
2015-01-18	1976.85000000000001
2015-01-19	2387.14999999999996
2015-01-20	2397.90000000000005
2015-01-21	2040.55000000000002
2015-01-22	2496.70000000000003
2015-01-23	2423.7
2015-01-24	2289.25
2015-01-25	1617.55000000000002
2015-01-26	1884.4
2015-01-27	2528.04999999999997
2015-01-28	2016
2015-01-29	2045.30000000000002
2015-01-30	2270.3
2015-01-31	2417.85

and so on.....

Q12. CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT
    pizza_types.category,
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        orders_details
        JOIN
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,
    2) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

and so on.....

CONCLUSION

- In year 2015, Pizza hut placed a total of 21350 orders.
- An estimated total sales of 817,860 dollars.
- The classic deluxe pizza was the most ordered pizza in the year 2015.
- Noon and the evening hours were the most rush hours in the day.
- The avg no of pizzas ordered were 138.

Thank You.

