



SQL --- PROJECT

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PROJECT OVERVIEW

Pizza Hut Sales Analysis

- Based on Number of ordered placed
- Total Revenue Generated
- Identifying most common Pizza ordered
- Top 5 most Ordered pizzas
- Percentage contribution of each pizza

CREATING A DATABASE AND TABLES

```
3 • CREATE TABLE Orders (  
4     Order_id INT NOT NULL,  
5     Order_date DATE NOT NULL,  
6     Order_time TIME NOT NULL,  
7     PRIMARY KEY (order_id) );  
8  
9 • SELECT * FROM Orders;  
0  
1 • CREATE TABLE Order_details (  
2     Order_details_id INT NOT NULL,  
3     Order_id INT NOT NULL,  
4     Pizza_id TEXT NOT NULL,  
5     Quantity INT NOT NULL,  
6     PRIMARY KEY (Order_details_id) );  
7
```





Retrieve Total Number of Order placed

```
SELECT  
    COUNT(Order_id) AS Total_orders  
FROM  
    Orders;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: <input type="checkbox"/>
	Total_orders				
▶	21350				





Calculate the Total Revenue generated from pizza sales

```
SELECT
    ROUND(SUM(Order_details.Quantity * Pizzas.Price), 2) AS Total_sales
FROM
    Order_details
    JOIN
    Pizzas ON Pizzas.Pizza_id = order_details.Pizza_id;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	Total_sales				
▶	817860.05				

Identify the Highest-Rated Pizza

```
SELECT
    Pizza_types.name, Pizza.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: <input type="text"/>	Export: 	Wrap Cell Content: 	Fetch rows:
	name	Price				
▶	The Greek Pizza	35.95				

Identify the most common Pizza size ordered

```
SELECT
    Pizza.size,
    COUNT(order_details.Order_details_id) AS Order_count
FROM
    Pizzas
    JOIN
    Order_details ON Pizzas.Pizza_id = Order_details.Pizza_id
GROUP BY Pizza.size
ORDER BY Order_count DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	size	Order_count			
▶	L	18526			
	M	15385			
	S	14137			
	XL	544			
	XXL	28			

Top 5 most Ordered Pizza types along with their quantities

```
SELECT
    Pizza_types.name, SUM(order_details.Quantity) AS Quantity
FROM
    Pizza_types
    JOIN
        Pizzas ON Pizza_types.Pizza_type_id = Pizzas.Pizza_type_id
    JOIN
        Order_details ON Order_details.Pizza_id = Pizzas.Pizza_id
GROUP BY Pizza_types.name
ORDER BY Quantity DESC
LIMIT 5;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:	Fetch 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				

Join the necessary table to find the Total quantity of each pizza Category Ordered

```
SELECT
    Pizza_types.Category,
    SUM(Order_details.Quantity) AS Quantity
FROM
    Pizza_types
    JOIN
    Pizzas ON Pizza_types.Pizza_type_id = Pizzas.Pizza_type_id
    JOIN
    Order_details ON Order_details.Pizza_id = Pizzas.Pizza_id
GROUP BY Pizza_type.Category
ORDER BY Quantity DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Category	Quantity			
►	Classic	14888			
	Supreme	11987			
	Veggie	11649			
	Chicken	11050			

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);
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	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			

Find the category wise distribution of pizzas

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

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Category	Count_category			
▶	Chicken	6			
	Classic	8			
	Supreme	9	9		
	Veggie	9			

Determine the top 3 most ordered Pizza types based on Revenue

```
SELECT
    Pizza_types.name,
    Order_details.Quantity * Pizzas.Price AS Revenue
FROM
    Pizza_types
    JOIN
    Pizzas ON Pizzas.Pizza_type_id = Pizza_types.Pizza_type_id
    JOIN
    Order_details ON Order_details.Pizza_id = Pizzas.Pizza_id;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:	Fetch rows
	name	Revenue				
▶	The Thai Chicken Pizza	43434.25				
	The Barbecue Chicken Pizza	42768				
	The California Chicken Pizza	41409.5				

Calculate the percentage contribution of each pizza type to total Revenue

```
SELECT
    Pizza_types.Category,
    (SUM(Order_details.Quantity * Pizzas.Price) / (SELECT
        ROUND(SUM(Order_details.Quantity * Pizzas.Price),
            2) AS Total_sales
    FROM
        Order_details
        JOIN
        Pizzas ON Pizzas.Pizza_id = order_details.Pizza_id)) * 100 AS Revenue
FROM
    Pizza_types
    JOIN
    Pizzas ON Pizza_types.Pizza_type_id = Pizzas.Pizza_type_id
    JOIN
    Order_details ON Order_details.Pizza_id = Pizzas.pizza_id
GROUP BY Pizza_types.Category
ORDER BY Revenue DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Category	Revenue			
▶	Classic	26.91			
	Supreme	25.46			
	Chicken	23.96			
	Veggie	23.68			

Analyze the cumulative revenue generated over time

```
SELECT Order_date,  
ROUND(SUM(Revenue) OVER(ORDER BY Order_date),2) AS Cum_revenue  
FROM  
(SELECT Orders.Order_date,  
sum(order_details.Quantity * Pizzas.Price) AS Revenue  
FROM order_details JOIN Pizzas  
ON order_details.Pizza_id = Pizzas.Pizza_id  
JOIN Orders  
ON Orders.Order_id = Order_details.Order_id  
GROUP BY Orders.Order_date) AS Sales ;
```

Result Grid			Filter Rows:
	Order_date	Cum_revenue	
▶	2015-01-01	2713.85	
	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	23990.35	
	2015-01-11	25862.65	
	2015-01-12	27781.7	
	2015-01-13	29831.3	
	2015-01-14	32358.7	
	2015-01-15	34343.5	
	2015-01-16	36937.65	
	2015-01-17	39001.75	
	2015-01-18	40978.6	

Determine the top 3 most Ordered pizza types based on revenue for each pizza Category

```
SELECT name, Revenue FROM
(SELECT Category, Name, Revenue,
RANK() OVER(PARTITION BY Category ORDER BY Revenue DESC) AS Rnk
FROM
(SELECT Pizza_types.Category, Pizza_types.Name,
ROUND(SUM((order_details.Quantity) * Pizzas.Price),2) AS Revenue
FROM Pizza_types JOIN Pizzas
ON Pizza_types.Pizza_type_id = Pizzas.Pizza_type_id
JOIN Order_details
ON Order_details.Pizza_id = Pizzas.Pizza_id
GROUP BY Pizza_types.Category, Pizza_types.name) AS A) AS B
WHERE Rnk <=3;
```

Result Grid			Filter Rows:
	name	Revenue	
▶	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	
	The Classic Deluxe Pizza	38180.5	
	The Hawaiian Pizza	32273.25	
	The Pepperoni Pizza	30161.75	
	The Spicy Italian Pizza	34831.25	
	The Italian Supreme Pizza	33476.75	
	The Sicilian Pizza	30940.5	
	The Four Cheese Pizza	32265.7	
	The Mexicana Pizza	26780.75	
	The Five Cheese Pizza	26066.5	

CONCLUSIONS

The analysis of Pizza Hut's data using SQL highlighted the top-ordered pizzas and their percentage contributions to overall sales. By identifying the most popular menu items, I was able to determine which pizzas generate the most revenue.

THANK YOU