

# PIZZA SALES- SQL PROJECT



Welcome to pizza sales analysis presentation! Using SQL, I have delved the queries across three levels:

**Basic:** We'll cover total orders, revenue, the highest-priced pizza, the most common size, and the top 5 pizza types by quantity.

**Intermediate:** We've examined quantities by category, hourly order distribution, category-wise pizza distribution, average daily orders, and the top 3 pizza types by revenue.

**Advanced:** We'll explore each pizza type's revenue contribution, cumulative revenue over time, and the top 3 pizza types by revenue within each category.

# Retrieve the total number of orders placed

```
3  
4 • SELECT  
5     COUNT(order_id) AS total_orders  
6 FROM  
7     orders;  
8  
9
```



Result Grid		Filter Rows:	Export:
	total_orders		
▶	21350		

# Calculate the total revenue generated from pizza sales.

```
3 • select
4   sum(order_details.quantity * pizzas.price) as total_sales
5   from order_details join pizzas
6   on pizzas.pizza_id = order_details.pizza_id;
7
8   -- roundoff
9
10 • SELECT
11   ROUND(SUM(order_details.quantity * pizzas.price),
12         2) AS total_sales
13   FROM
14     order_details
15     JOIN
16     pizzas ON pizzas.pizza_id = order_details.pizza_id
```



Result Grid		Filter Rows:	Export:
	total_sales		
▶	817860.05		

# Identify the highest-priced pizza.

```
2
3 • SELECT
4     pizza_types.name, pizzas.price
5 FROM
6     pizza_types
7     JOIN
8     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9 ORDER BY pizzas.price DESC
10 LIMIT 1;
```



Result Grid			Filter Rows:	Export:
	name	price		
▶	The Greek Pizza	35.95		

# Identify the most common pizza size ordered.

```
2 • SELECT
3     quantity, COUNT(order_details_id) FROM order_details
4 GROUP BY quantity;
5 • SELECT
6     pizzas.size,
7     COUNT(order_details.order_details_id) AS order_count FROM pizzas
8     JOIN
9     order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC;
```



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

# List the 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:
	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 tables 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_types.category
ORDER BY quantity DESC;
```



Result Grid			Filter Rows:	Export:
	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 AS order_count
GROUP BY HOUR(order_time);
```




Result Grid			Filter Rows:	Export:
	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		








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

```
select category , count(name) from pizza_types  
group by category
```



Result Grid |   Filter Rows:  | Export: 

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

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

```
SELECT
    round(AVG(quantity),0) as average_pizzas_ordered_per_day
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```



Result Grid		Filter Rows:	Export:
	average_pizzas_ordered_per_day		
▶	138		

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

```
SELECT
    pizza_types.name,
    SUM(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
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```



Result Grid			Filter 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 pizzas.pizza_type_id = pizza_types.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:
	category	revenue	
▶	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	

# Analyze the cumulative revenue generated over time.

```
3 • select order_date,  
4    sum(revenue) over (order by order_date) as cumulative_revenue from  
5    (SELECT orders.order_date,  
6       SUM(order_details.quantity * pizzas.price) AS revenue FROM order_details JOIN  
7       pizzas ON order_details.pizza_id = pizzas.pizza_id JOIN  
8       orders ON orders.order_id = order_details.order_id  
9       GROUP BY orders.order_date) as sales;
```



Result Grid    Filter Rows: <input type="text"/>		
	order_date	cumulative_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

# 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 rn from
(SELECT  pizza_types.category, pizza_types.name,
SUM((order_details.quantity) * pizzas.price) 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 rn<=3;
```



Result Grid			Filter Rows:	Exp
	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		



# Thank You!



**Email**

akankshalanghani13@gmail.com



**LinkedIn**

@AakankshaLanghani



**GitHub**

<https://github.com/AakankshaLanghani>

