



SQL PROJECT ON PIZZA SALE



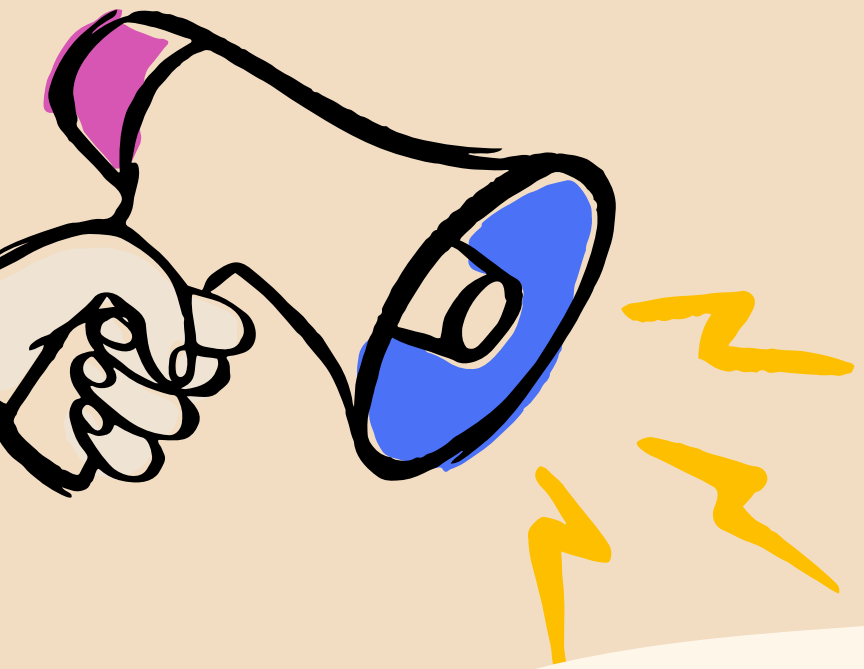


Hello!



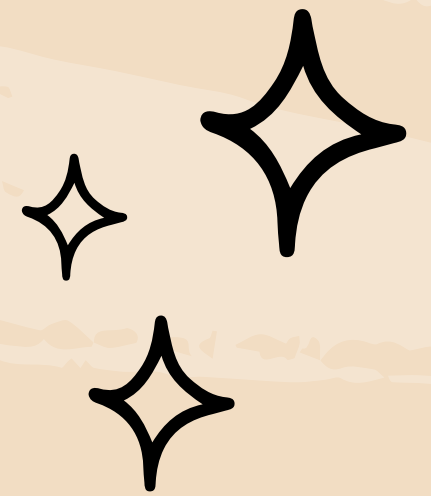
Hai my name is Deva Nair and in this project i have utilize sql queries to solve the questions that were related to pizza sales





project focuses

- This SQL project focuses on analyzing pizza sales data to uncover key business insights. It includes calculating total orders and revenue, identifying popular pizzas, and analyzing ordering patterns. The project progresses from basic data retrieval to advanced analysis, helping to understand sales trends and customer preferences.



RETRIVE THE TOTAL NUMBERS OF ORDERS PLACED.

```
3 • select * from orders;  
4 • select count(order_id) as total_orders from orders;
```

Result Grid	
	total_orders
▶	21350



Calculate the total revenue generated from pizza sales.

```
3 • SELECT
4     ROUND(SUM(order_details.quantity * pizzas.price),
5           2) AS total_sales
6 FROM
7     order_details
8     JOIN
9     pizzas ON pizzas.pizza_id = order_details.pizza_id
```




Result Grid	
	total_sales
▶	817860.05



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

	name	price
▶	The Greek Pizza	35.95



Identify the most common pizza size ordered.

```
SELECT
    pizzas.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 pizzas.size
ORDER BY order_count DESC;
```

Result Grid |   Filter

	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_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

	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.

```
3 • SELECT
4     pizza_types.category,
5     SUM(order_details.quantity) AS quantity
6 FROM
7     pizza_types
8     JOIN
9     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10    JOIN
11    order_details ON order_details_id = pizzas.pizza_id
12 GROUP BY pizza_types.category
13 ORDER BY quantity DESC;
```

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



Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time), COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Result Grid

	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



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

```
4 • SELECT
5     category, COUNT(name)
6 FROM
7     pizza_types
8 GROUP BY category;
```

Result Grid			Filter Rows
	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.

```
4 SELECT
5     ROUND(AVG(quantity), 0) as avg_pizzas_ordered_per_day
6 FROM
7     (SELECT
8         orders.order_date, SUM(order_details.quantity) AS quantity
9     FROM
10        orders
11     JOIN order_details ON orders.order_id = order_details.order_details_id
12     GROUP BY orders.order_date) AS order_quantity;
```

Result Grid		Filter Rows
	round(avg(quantity),0)	
▶	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;
```

	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,  
round(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) *100,2) 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 order by revenue desc;
```



	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Analyze the cumulative revenue generated over time.

```
select order_date,  
sum(revenue) over(order by order_date)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;
```

	order_date	cum_revenue
▶	2015-01-01	2713.85000000000004
	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



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:	
	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!



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