# QL PROJECTS,/ PIZZA SALES

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### HELLO!

"My name is Gaurav Kumar, and in this project,
I have applied SQL queries
related to pizza sales"

#### In Our Project, We:

#### •Imported Pizza Sales Data:

From CSV files into MySQL Workbench

#### •Generated Insights:

Analysed sales data to derive meaningful insights

#### •Identified Areas for Improvement:

Determined key areas needing improvement based on the sales analysis

#### In My Pizza Sales SQL Project, I Utilized Various Advanced SQL Features, Including:

- •Aggregated Functions:
  - •COUNT
  - •SUM
  - •AVG
- •SQL Clauses:
  - •LIMIT
  - •ORDER BY
- ·Joins:
  - Performing joins between two tables
  - Performing joins between multiple tables
- Complex Sub-queries
- •Window Functions:
  - •RANK()

#### "Pizzahut" Database Schema

The Pizzahut database contains the following four tables:

order\_details
orders
pizza\_types
pizza

#### Comprehensive SQL Query Tasks for Pizza Sales Analysis

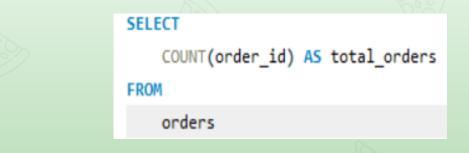
- 1 Retrieve the total no of order placed.
- 2- Calculate the total revenue generated from pizza sales.
- 3- Identify highest price pizzas
- 4- Identify the most common pizza size ordered
- 5- List the top 5 most ordered pizza types, along with their quantities
- 6- Join the necessary tables to find the total quantity of each pizza category ordered
- 7-determine the distribution of orders by hour of the day
- 8- Join relevant tables to find the category wise distribution of pizzas
- 9- Group the orders by date and calculate the average number of pizzas ordered per day
- 10- Determine the top 3 most ordered pizza types based on revenue
- 11- Calculate the percentage contribution of each pizza type to total revenue
- 12- Determine the cumulative revenue generated over time
- 13- Determine the top 3 most ordered pizza types based on revenue for each pizza category

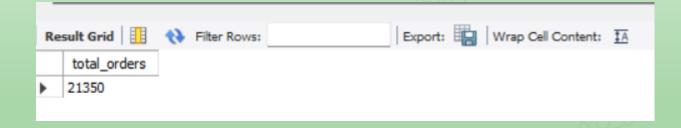






#### 1 - Retrieve the total no of order placed





#### 2 - 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 order_details.pizza_id = pizzas.pizza_id
```



#### 3 - Identify highest price pizzas

#### 4 - Identify the most common pizza size ordered

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

	sult Grid	III 🙌 Fil		Export:	Wrap Cell C	
	size	order_count				
•	L	18526				
	M	15385				
	S	14137				
	XL	544				
	XXL	28				

#### 5 - List the top 5 most ordered pizza types, along with their quantities

R	Result Grid				
	name	quantity			
٠	The Classic Deluxe Pizza	2453			
	The Barbecue Chicken Pizza	2432			
	The Hawaiian Pizza	2422			
	The Pepperoni Pizza	2418			
	The Thai Chicken Pizza	2371			

## 6 - Join the necessary tables to find the total quantity of each pizza category ordered

Result Grid				Export:	Wrap Cell Content:	<u>‡A</u>
	category	quantity				
•	Classic	14888				
	Supreme	11987				
	Veggie	11649				
	Chicken	11050				

#### 7 - determine the distribution of orders by hour of the day

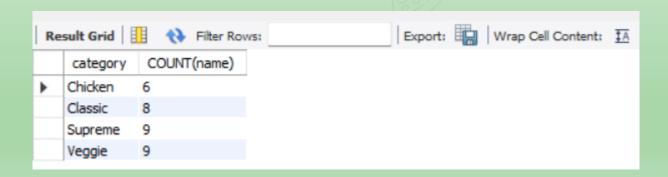
```
HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
orders
GROUP BY HOUR(order_time)
ORDER BY order_count DESC
```

	sult Grid	ı i i i i i i i i i i i i i i i i i i i	ter Rows:			Wrap Cell	
	hour	order_count					
▶	12	2520					
	13	2455					
	18	2399					
	17	2336					
	19	2009					
	16	1920					
	20	1642					
	14	1472					
	15	1468					
	11	1231					
	21	1198					
	22	663					
	23	28					
	10	8					
	9	1					

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

```
SELECT
category, COUNT(name)

FROM
pizza_types
GROUP BY category
```



## 9 - Group the orders by date and calculate the average number of pizzas ordered per day

```
SELECT

ROUND(AVG(quantity), 0)

FROM

(SELECT

orders.order_date AS order_date,

SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY order_date

ORDER BY quantity DESC) AS order_quantity
```

Re	sult Grid   🔢 🙌 Filter Ro	vs: Export: Wrap Cell Content:	ĪA
	ROUND(AVG(quantity), 0)		
<b>&gt;</b>	138		

#### 10 - 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;
```

Re	sult Grid 🔠 🙌 Filter Row	/s:	Export: Wrap Cell Content: TA Fetch rows:	
	name	revenue		
•	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		

## 11 - 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 order details.pizza_id = pizzas.pizza_id)) * 100,
            2) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC
```

				1_			
	category	revenue					
•	Classic	26.91					
	Supreme	25.46					
	Chicken	23.96					
	Veggie	23.68					

#### 12 - Determine the cumulative revenue generated over time

Re	sult Grid	Name of the Filter Rows:	
7	order_date	cum_revenue	
<b>•</b>	2015-01-01	2713.85000000000004	
	2015-01- 2015-01-02		
	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	
	(		

## 13 - 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;</pre>
```

Re	sult Grid 🔠 🙌 Filter Row	Export:	Wrap	Cell Conte	ent:	ĪA	
	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	32265.70000000065					
	The Mexicana Pizza	26780.75					
	The Five Cheese Pizza	26066.5					

