



PIZZA SALES ANALYSIS USING MYSQL



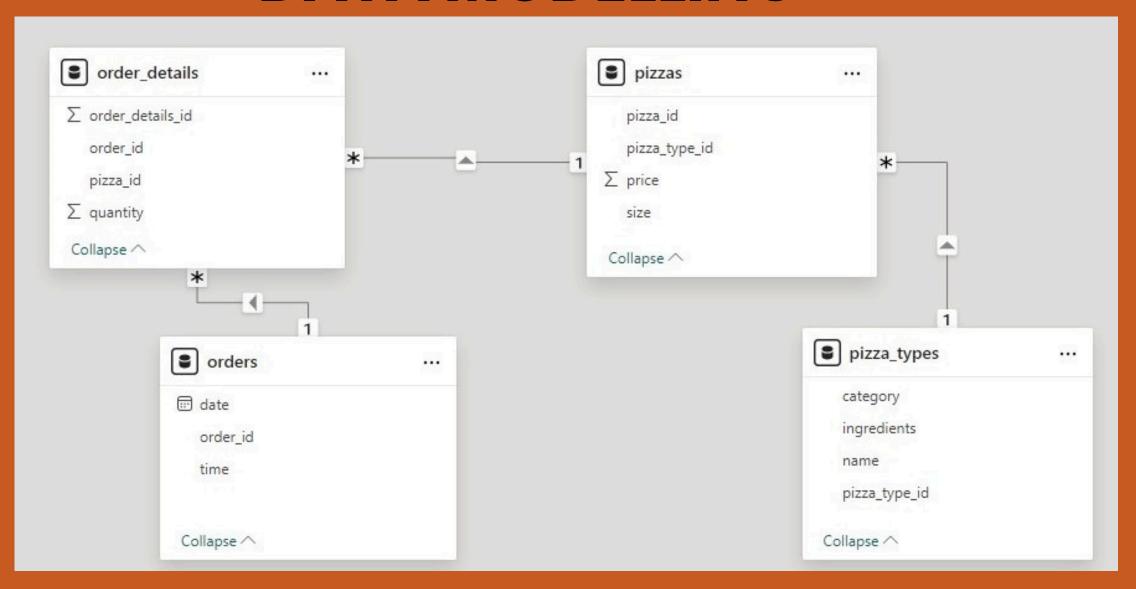




HELLO, EVERYONE!

MY NAME IS SHUBHAM KUMAR, AND I'M EXCITED TO SHARE WITH YOU MY DATA ANALYSIS PROJECT ON PIZZA SALES, USING SQL QUERIES. AND SOLVE DIFFERENT QUESTIONS RELATED TO PIZZA SALES. THIS PROJECT MARKS A SIGNIFICANT MILESTONE IN MY JOURNEY AS A DATA SCIENTIST, AND I'M THRILLED TO PRESENT MY FINDINGS AND INSIGHTS.

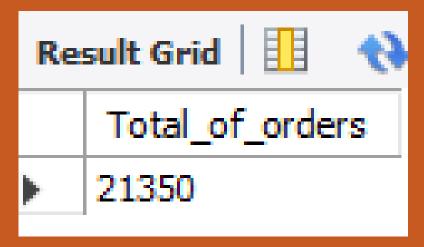
DATA MODELLING



Retrieve the total number of orders placed.

```
SELECT
     COUNT(order_id) AS Total_of_orders
FROM
    pizzahut.orders;
```





Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(pizzas.price * orders_details.quantity),

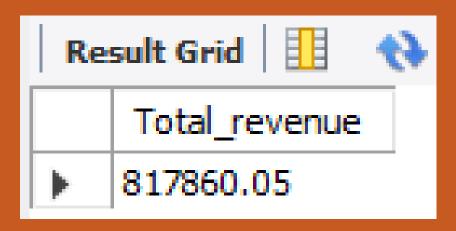
2) AS Total_revenue

FROM

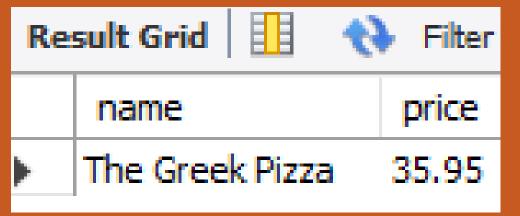
pizzas

JOIN

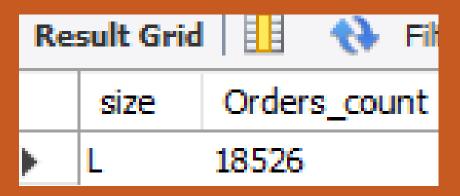
orders_details ON pizzas.pizza_id = orders_details.pizza_id;
```



Identify the highest-priced pizza.



Identify the most common pizza size ordered.



List the top 5 most ordered pizza 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			
	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	

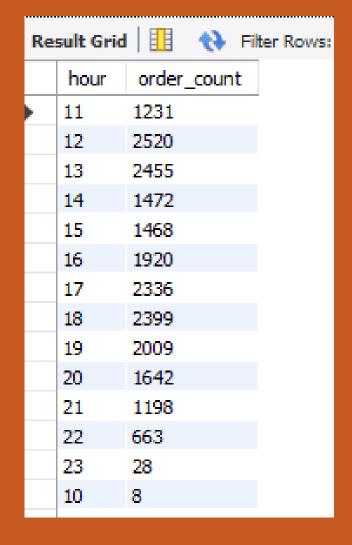
Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    pizza types.category,
    SUM(orders details quantity) AS Total 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 Total_quantity DESC;
```

Result Grid 🔢 🚷 Filter Rows		
	category	Total_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);
```





Join relevant tables to find the categorywise distribution of pizzas.

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

Result Grid 🔡 🙌 Filter F		
	category	No_of_Pizza
•	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 Avg_Pizza_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;
```



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

```
SELECT
    pizza_types.name,
    ROUND(SUM(orders_details.quantity * pizzas.price),
            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.name
ORDER BY revenue DESC
LIMIT 3;
```

The Thai Chicken Pizza 43434	Result Grid			
	Revenue	name		
The Best of this live Diese 40700	43434	The Thai Chicken Piz		
The Barbecue Chicken Pizza 42/68	Pizza 42768	The Barbecue Chicke		
The California Chicken Pizza 41410	Pizza 41410	The California Chicke		

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(pizzas.price * orders_details.quantity),
                                2) AS Total revenue
                FROM
                    pizzas
                    orders details ON pizzas.pizza id = orders details.pizza id) * 100,
            2) AS Percentage_contribution
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 Percentage contribution DESC;
```

Result Grid		
	category	Percentage_contribution
•	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(orders_details.quantity*pizzas.price) as revenue
from orders join orders_details
on orders.order_id = orders_details.order_id join
pizzas on pizzas.pizza_id = orders_details.pizza_id
group by orders.order_date) as sales;
```

Re	sult Grid	Name of the Filter Rows:
	order_date	cum_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
	2015-01-11	25862.65
	2015-01-12	27781.7

Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select category, name, revenue from

(select category,name, revenue, rank() over(partition by category order by revenue desc) as R_n
from
(select pizza_types.category, pizza_types.name, sum(orders_details.quantity*pizzas.price) 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, pizza_types.name) as a) as b
where R_n <=3;</pre>
```

	Result Grid			
Ke	Result Grid Export:			
	category	name	revenue	
•	Chicken	The Thai Chicken Pizza	43434.25	
	Chicken	The Barbecue Chicken Pizza	42768	
	Chicken	The California Chicken Pizza	41409.5	
	Classic	The Classic Deluxe Pizza	38180.5	
	Classic	The Hawaiian Pizza	32273.25	
	Classic	The Pepperoni Pizza	30161.75	
	Supreme	The Spicy Italian Pizza	34831.25	
	Supreme	The Italian Supreme Pizza	33476.75	
	Supreme	The Sicilian Pizza	30940.5	
	Veggie	The Four Cheese Pizza	32265.70000000065	
	Veggie	The Mexicana Pizza	26780.75	
	Veggie	The Five Cheese Pizza	26066.5	

THANK YOU FOR REVIEWING MY PIZZA SALES ANALYSIS PROJECT.



KEY INSIGHTS INCLUDE:

 TOTAL 	ORDERS AND REVENUE GENERATED
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- HIGHEST-PRICED PIZZA AND MOST COMMON PIZZA SIZE
- TOP 5 MOST ORDERED PIZZAS
- QUANTITY OF EACH PIZZA CATEGORY ORDERED
- ORDERS DISTRIBUTION BY HOUR
- AVERAGE PIZZAS ORDERED PER DAY
- TOP 3 PIZZAS BASED ON REVENUE
- REVENUE CONTRIBUTIONS OF EACH PIZZA TYPE
- CUMULATIVE REVENUE OVER TIME
- TOP 3 PIZZA CATEGORY WISE

THIS PROJECT HAS ENHANCED MY DATA ANALYSIS SKILLS AND PROVIDED VALUABLE INSIGHTS INTO PIZZA SALES TRENDS. I APPRECIATE YOUR FEEDBACK AND LOOK FORWARD TO APPLYING THESE SKILLS IN FUTURE PROJECTS.



THANK YOU!