

ABOUT US

PIZZA STORE 

MYSQL PROJECT



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ABOUT US

I am an aspiring data analyst with a strong foundation in SQL, data modeling, and analytical problem-solving. I enjoy uncovering insights from data and presenting them in a meaningful way to drive informed decisions. My skills include data cleaning, aggregation, and visualization using tools like Power BI and Excel. I am currently expanding my technical stack with the MERN stack and MySQL to complement my analytical capabilities with backend and web development skills.

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THIS PROJECT SIMULATES A REAL-WORLD PIZZA ORDERING SYSTEM USING SQL TO ANALYZE SALES AND CUSTOMER ORDERS. IT FEATURES A WELL-STRUCTURED RELATIONAL DATABASE WITH TABLES SUCH AS ORDERS, ORDER_DETAILS, PIZZAS, AND PIZZA_TYPES. USING ADVANCED SQL QUERIES, INCLUDING JOINS, AGGREGATIONS, AND WINDOW FUNCTIONS LIKE RANK() AND SUM() OVER, I EXTRACTED KEY BUSINESS INSIGHTS SUCH AS TOP-SELLING PIZZA TYPES BY CATEGORY AND DAILY CUMULATIVE REVENUE. THE PROJECT DEMONSTRATES STRONG SKILLS IN DATA MODELING, PROBLEM-SOLVING, AND TURNING RAW TRANSACTIONAL DATA INTO ACTIONABLE ANALYTICS.

AJAY SAHNAS

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1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



```
SELECT  
    COUNT(order_id) AS total_order  
FROM  
    orders;
```

OUTPUT >

Result Grid	
	total_order
▶	21350

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2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



- SELECT
ROUND(SUM(order_details.quantity * pizzas.price),
2) as total_revenue
FROM
order_details
JOIN
pizzas ON pizzas.pizza_id = order_details.pizza_id;

OUTPUT >

Result Grid	
	total_revenue
▶	817860.05

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3. IDENTIFY THE HIGHEST-PRICED PIZZA.



```
SELECT
    pizza_types.name,
    order_details.quantity
FROM
    order_details
    JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
    JOIN pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY
    pizzas.price DESC
LIMIT 1;
```

OUTPUT >

Result Grid | Filter Rows:

	name	quantity
▶	The Greek Pizza	1

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4. 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;
```

OUTPUT >

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	size	order_count
▶	L	1127
	M	934
	S	869
	XL	36
	XXL	2

5. 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;
```

OUTPUT >

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	name	quantity
▶	The Hawaiian Pizza	168
	The Thai Chicken Pizza	159
	The California Chicken Pizza	139
	The Classic Deluxe Pizza	137
	The Pepperoni Pizza	136

6. 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;
```

OUTPUT >

	category	quantity
▶	Classic	925
	Veggie	733
	Supreme	715
	Chicken	651

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7. 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);
```

OUTPUT >

	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

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8. JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.



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

OUTPUT >

Result Grid | Filter Rows

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

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9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.



```
SELECT  
    AVG(quantity)  
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;
```

OUTPUT >

Result Grid

	AVG(quantity)
▶	138.4749

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10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



```
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) 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;
```

OUTPUT >

Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
▶	The Barbecue Chicken Pizza	42768
▶	The California Chicken Pizza	41409.5

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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))
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;
```

OUTPUT

Result Grid | Filter Rows

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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12. 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;
```

OUTPUT

	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	19399.050000000003
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	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
	2015-01-19	43365.75

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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;
```

OUTPUT >

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	32265.700000000554
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

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THANK YOU!

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