



MYSQL PROJECT ON PIZZA SALES

INTRODUCTION

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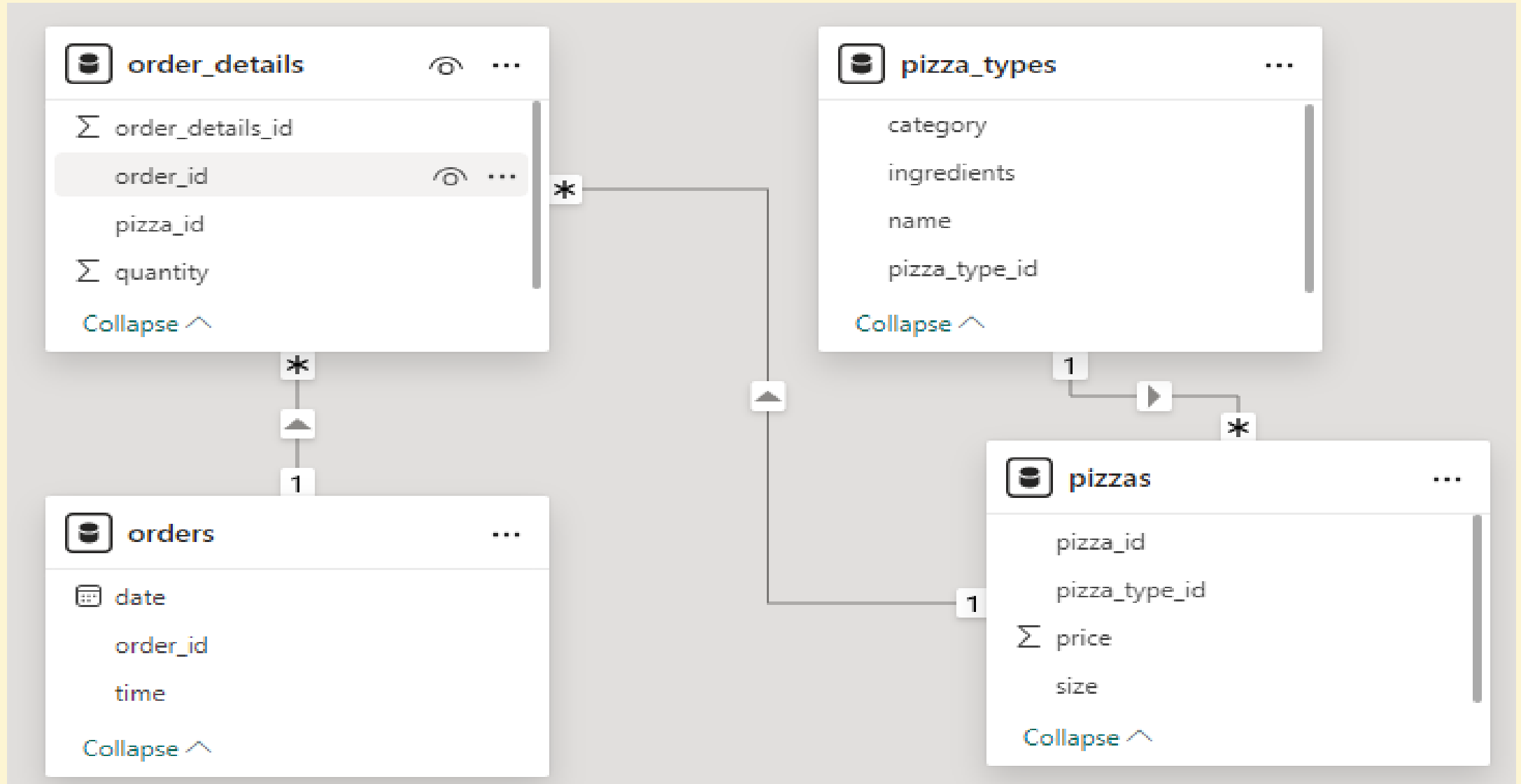
Hello!

My name is Mansi Chawla and in this project I have utilized MySql Queries to solve questions related to pizza sales.

Leveraging the power and versatility of MySQL, one of the most popular relational database management systems, we seek to revolutionize the way pizza sales are tracked, analyzed, and managed.

Through this project, we endeavor to set a new standard for excellence in pizza sales management.

SCHEMA



BASIC:

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- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

INTERMEDIATE:



- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

ADVANCE:

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

Result Grid				F
	COUNT(order_id)			
▶	21350			

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

Result Grid			Filter Rows:
	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 Rc
	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
GROUP BY HOUR(order_time);
```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1555

	hour	order_count
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	1155

JOIN THE RELEVANT TABLES TO FIND THE CATEGORY WISE DISTRIBUTION OF PIZZAS

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

	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 avg_pizza_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:
	avg_pizza_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 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 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,
    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;
```

Result Grid			Filter F
	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 pizzas.pizza_id = order_details.pizza_id  
    join orders  
    on orders.order_id = order_details.order_id  
group by orders.order_date) as sales ;
```

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01	2713.85000000000004	
	2015-01-02	5445.75	
	2015-01-03	8108.15	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 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;
```

Result Grid			Filter Rows:	Export: 	Wrap Cell Cont
	category	name	revenue	rn	
▶	Chicken	The Thai Chicken Pizza	43434.25	1	
	Chicken	The Barbecue Chicken Pizza	42768	2	
	Chicken	The California Chicken Pizza	41409.5	3	
	Chicken	The Southwest Chicken Pizza	34705.75	4	
	Chicken	The Chicken Alfredo Pizza	16900.25	5	
	Chicken	The Chicken Pesto Pizza	16701.75	6	

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**THANK
YOU**

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