

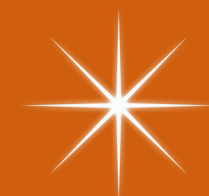


PIZZA SALES

Presented by
Pranav



**DATA
ANALYSIS
USING
SQL**





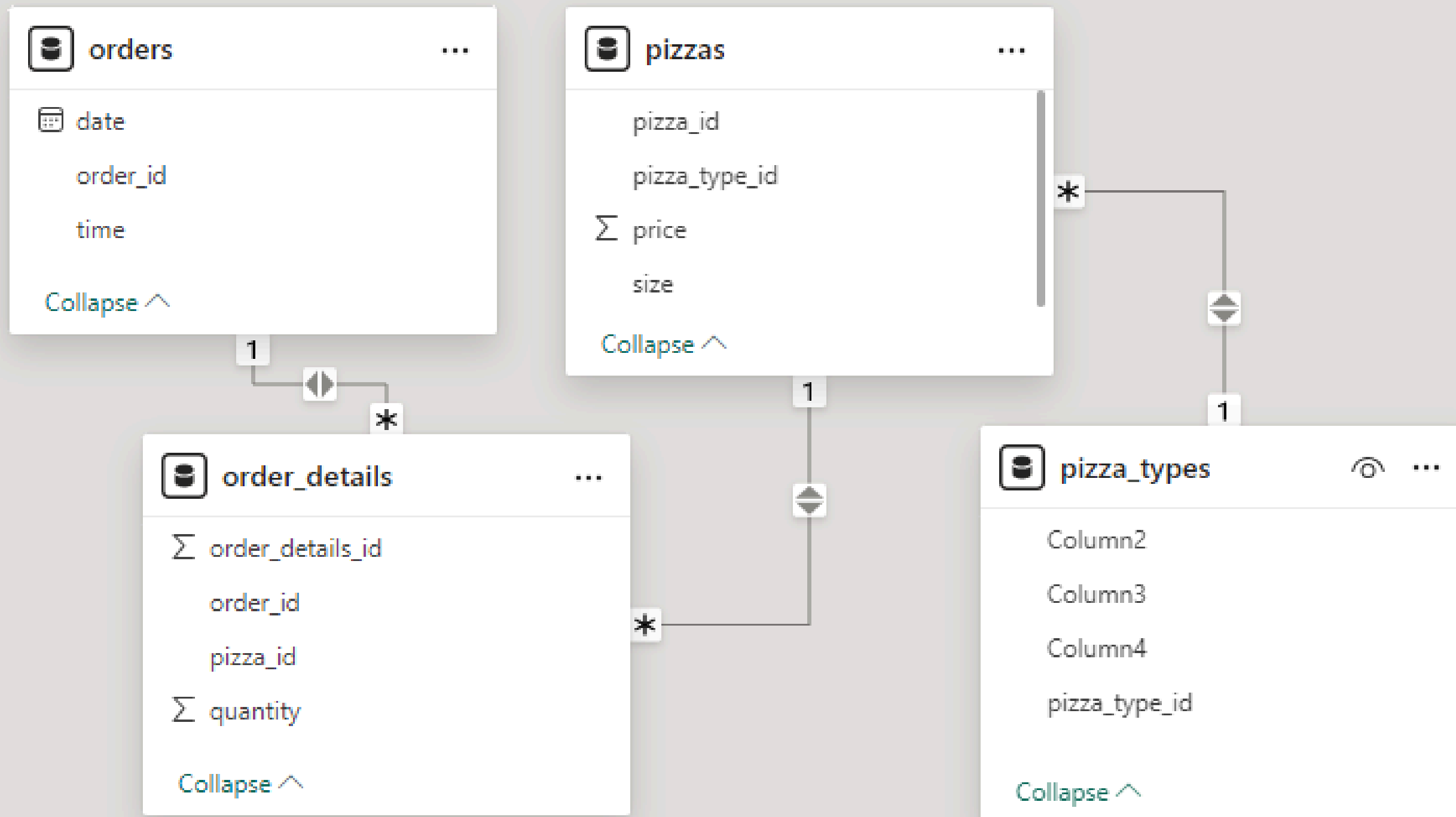
INTRODUCTION

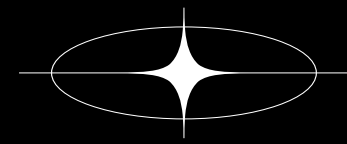
I'm S. Pranav Kumar. I recently completed a data analysis project focused on pizza sales. In this project, I utilized SQL to delve into the dataset, extract meaningful insights, and address specific queries related to the pizza sales data. I solved some questions on the basis of pizza sales. Through this project, I gained valuable experience in SQL query writing, data manipulation, and data analysis. I'm excited to share my findings and insights with you.

SCHEMA



- 1.ORDERS
- 2.ORDER_DETAILS
- 3.PIZZA
- 4.PIZZA_TYPES





Q1.RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

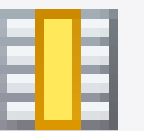
Select

Count(order_id) AS total_orders

From

orders;

Result Grid



	total_orders
▶	21350

Q2.CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

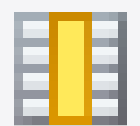
SELECT

`round(sum(order_details.quantity * pizzas.price), 2) AS Total_Revenue`

FROM order_details

JOIN pizzas **ON** pizzas.pizza_id = order_details.pizza_id;

Result Grid



Total_Revenue

817860.05



Q3.IDENTIFY THE HIGHEST-PRICED PIZZA.

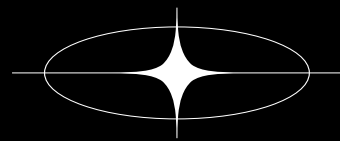
```
select
  pizza_types.name, pizzas.price as Highest_priced_pizza
from
  pizza_types
  join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by
  pizzas.price desc limit 1;
```

Result Grid			Filter Rows:	
	name	Highest_priced_pizza		
▶	The Greek Pizza	35.95		

Q4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
select
  pizzas.size, count(order_details.order_details_id) As Count
from
  pizzas
  join order_details on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size
order by count desc;
```

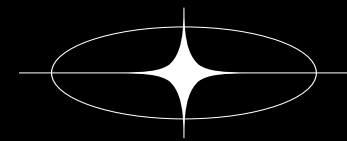
Result Grid				
	size	Count		
▶	L	18526		
	M	15385		
	S	14137		
	XL	544		
	XXL	28		



Q5.LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
select
  pizza_types.name, sum(order_details.quantity) as Total
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 total desc limit 5;
```

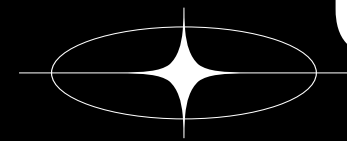
Result Grid			Filter Rows:
	name	Total	
▶	The Classic Deluxe Pizza	2453	
	The Barbecue Chicken Pizza	2432	
	The Hawaiian Pizza	2422	
	The Pepperoni Pizza	2418	
	The Thai Chicken Pizza	2371	



Q6. JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
select
  pizza_types.category, sum(order_details.quantity) as Total_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 total_quantity desc;
```

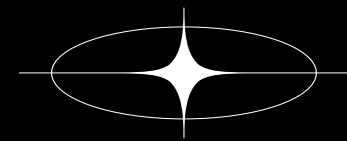
Result Grid			Filter Rows
	category	Total_Quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



Q7.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;
```

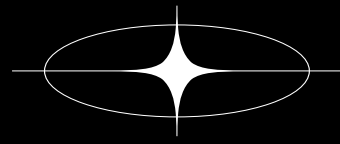
Result Grid			Filter
	Hour	Order_count	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	
	22	663	
	23	28	
	10	8	
	9	1	



Q8.JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
select
    Category, count(name) As Name
from
    pizza_types
group by category;
```

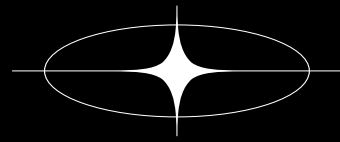
Result Grid				
	Category	Name		
▶	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		



Q9.GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.



```
select
    round(avg(quantity), 0) As Average_pizzas_ordered_perday
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 order_date
    ) As order_quantity;
```

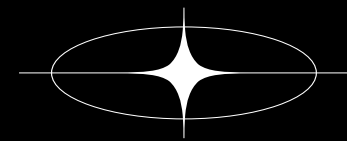
Result Grid		Filter Rows:
	Average_pizzas_ordered_perday	
▶	138	



Q10.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
select
  pizza_types.name, sum(order_details.quantity * pizzas.price) As Total_price
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 total_price desc limit 3;
```

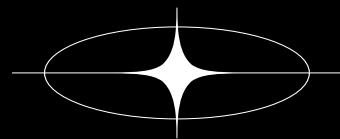
Result Grid   Filter Rows: <input type="text"/>		
	name	Total_price
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



Q11.CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
select
  pizza_types.category,
  (sum(order_details.quantity * pizzas.price) /
   ( 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))* 100 As Total_sales
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 total_sales desc;
```

Result Grid			Filter Rows:
	category	Total_sales	
▶	Classic	26.90596025566967	
	Supreme	25.45631126009862	
	Chicken	23.955137556847287	
	Veggie	23.682590927384577	

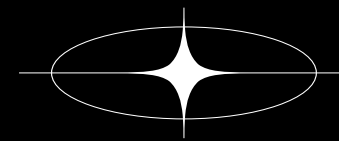


Q12.ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
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_details_id
  group by orders.order_date
  ) As Sales;
```

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01	1171.45	
	2015-01-02	2316.1000000000000004	
	2015-01-03	3433.8	
	2015-01-04	4341.8	
	2015-01-05	5247.25	
	2015-01-06	6299.9	
	2015-01-07	7284.7	
	2015-01-08	8542.35	

AND MORE



Q13.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		
	The Spicy Italian Pizza	34831.25		
	The Italian Supreme Pizza	33476.75		
	The Sicilian Pizza	30940.5		
	The Four Cheese Pizza	32265.700000000065		
	The Mexicana Pizza	26780.75		
	The Five Cheese Pizza	26066.5		



KEY METRICS



By solving the Queries to the questions I came to know that the points are:-

- 1.Pizza Sales are pretty high in Classic Category comparatively.**
- 2.People are mostly choosing to order Single Quantity.**
- 3.Mostly customers are ordering at 12:00PM.**
- 4.”L” sized pizza is making best sales.**

i suggests the company to maintain the application steady in the rush hours and to increase the offers to the “L” sized pizzas and to make the single quantity ordering customers to order more company to give some extra cashbacks,offers.

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THANK YOU!



Thank you for your attention to my sales report presentation.