

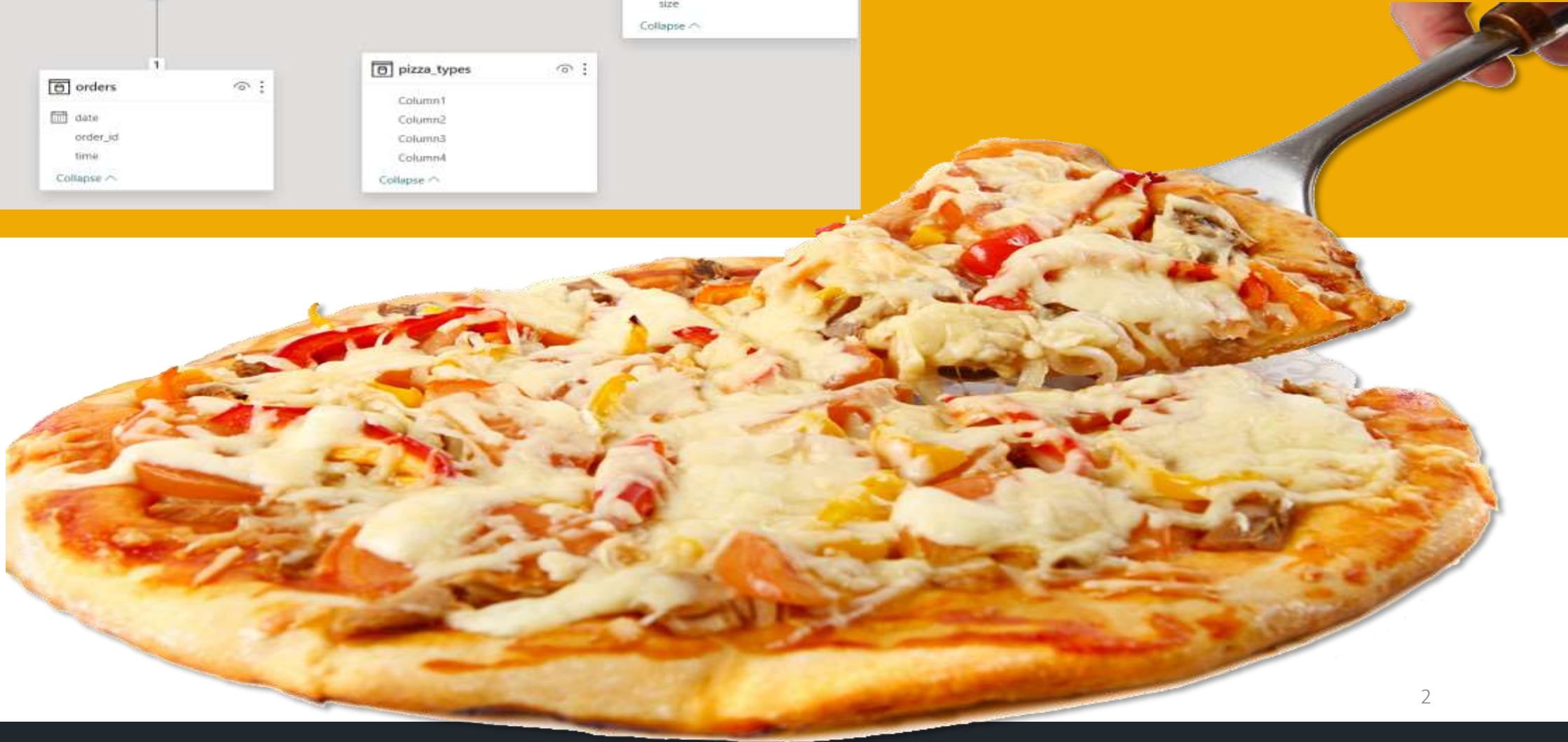
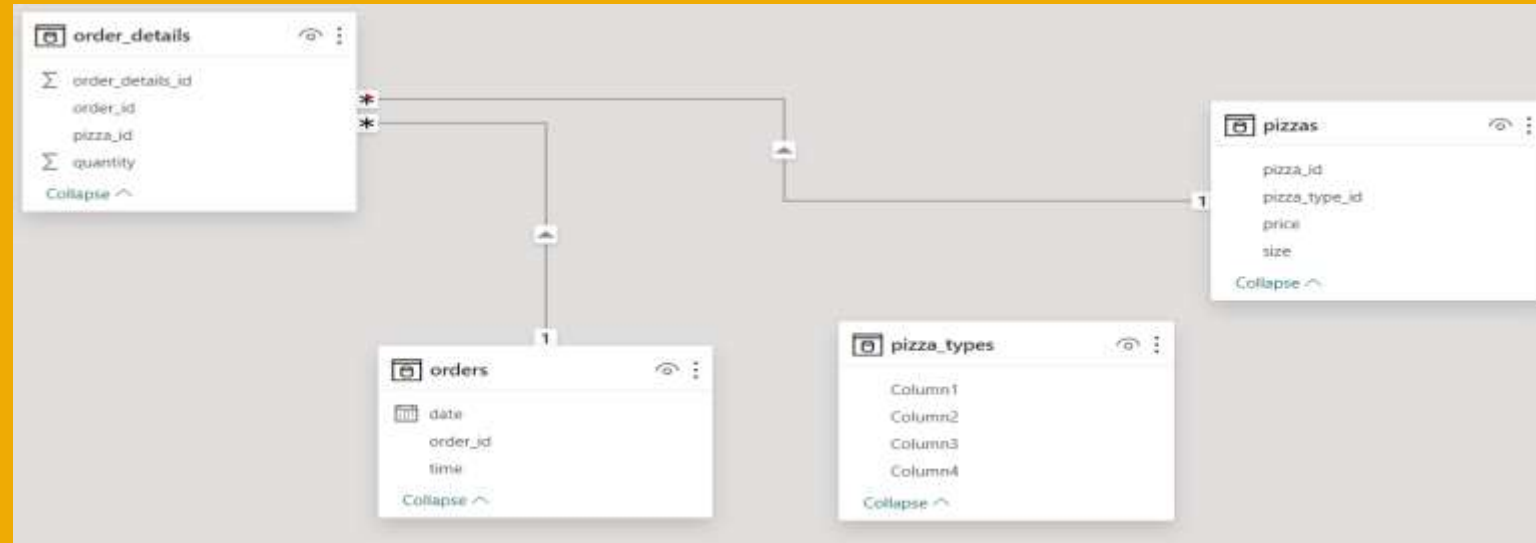
SQL Project on PIZZA Sales

Hello!

My Name is Arbaz Khan, and this project I
have Utilized SQL Queries to Solve
Questions that were Related to in pizza
sales.



Excel Data Model Schema



Retrieve the total number of orders placed.



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

Result Grid	
	total_orders
▶	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 Rows
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

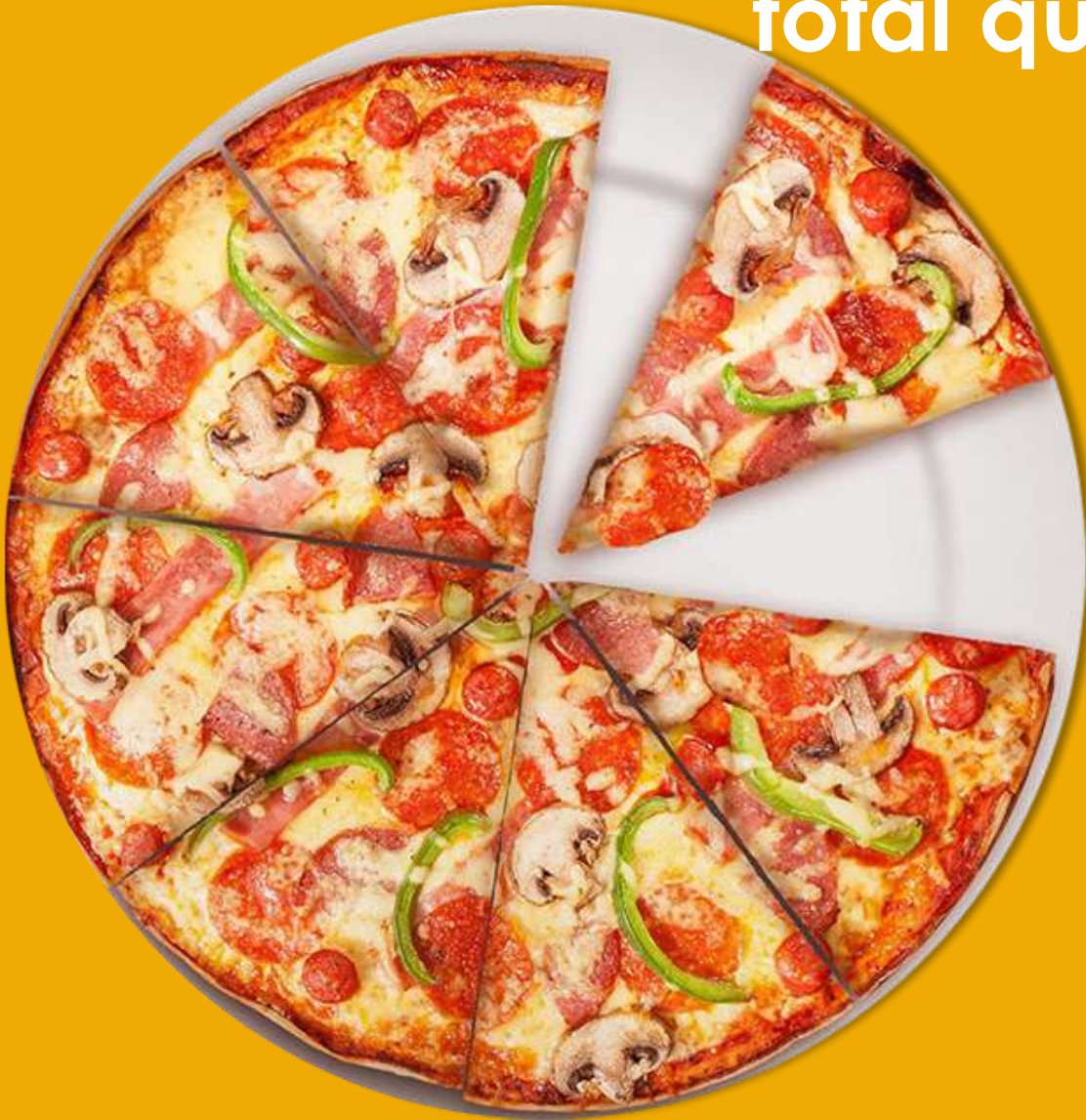
List the top 5 most ordered pizza types along with their quantities.



```
SELECT
    pt.name, SUM(od.quantity) AS total_quantity
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY total_quantity DESC
LIMIT 5;
```

Result Grid			Filter Rows:
	name	total_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
    pt.category, SUM(od.quantity) AS quantity
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY quantity DESC;
```

Result Grid			Filt
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

Determine the distribution of orders by hour of the day.



```
SELECT  
    HOUR(ordr_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(ordr_time);
```

Result Grid			Filter
	hour	order_count	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	

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



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

Result Grid			Filter Rows
	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 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;
```

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
    pt.category,
    ROUND(SUM(od.quantity * p.price) / (SELECT
        SUM(od2.quantity * p2.price)
    FROM
        order_details od2
    JOIN
        pizzas p2 ON p2.pizza_id = od2.pizza_id) * 100,2) AS revenue_percentage
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY revenue_percentage DESC;
```

Result Grid			Filter Rows:
	category	revenue_percentage	
▶	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 order_details.pizza_id = pizzas.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	2713.8500000000004	
	2015-01-02	5445.75	
	2015-01-03	8108.15	
	2015-01-04	9863.6	
	2015-01-05	11929.55	

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 pt.category, pt.name,
           SUM(od.quantity * p.price) AS revenue
    FROM pizza_types pt
    JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN order_details od ON od.pizza_id = p.pizza_id
    GROUP BY pt.category, pt.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	



THANK YOU