

# **PIZZA SALES**

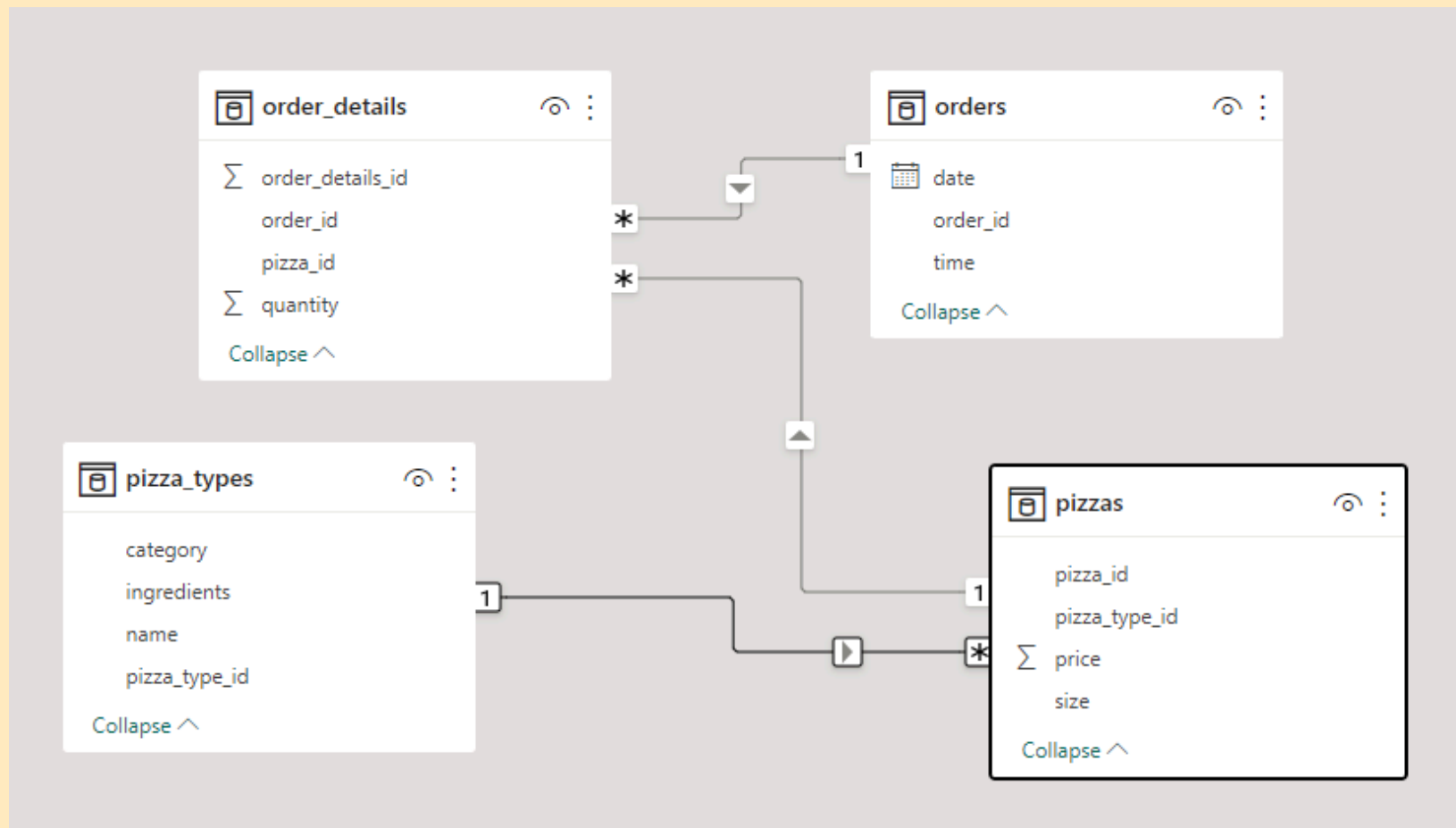
## **SQL PROJECT**

# **HELLO**

**My name is Nikita Jangam .**

**In this project I have utilized the SQL  
queries to solve the questions that  
are related to the pizza sales.**

# Data



# Question 1

**Retrieve the total number of orders placed.**

```
select count(order_id) as total_orders from orders;
```

	total_orders
▶	21350

# Question 2

**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;
```

	total_sales
▶	817860.05

# Question 3

**Identify the highest-priced pizza.**

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

	price	name
▶	35.95	The Greek Pizza

# Question 4

**Identify the most common pizza size ordered.**

```
select
pizzas.size,count(order_details.order_details_id) as
order_count
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
group by pizzas.size
order by order_count desc limit 1;
```

	size	order_count
▶	L	18526

# Question 5

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

```
select
pizza_types.name,sum(order_details.quantity) as
quantities
from pizzas join pizza_types
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 quantities desc limit 5;
```

	name	quantities
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371



# Question 6

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

```
select
pizza_types.category,sum(order_details.quantity) as
quantities
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category
order by quantities asc ;
```

	category	quantities
▶	Chicken	11050
	Veggie	11649
	Supreme	11987
	Classic	14888

# Question 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);
```

	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

# Question 8

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

```
select category,count(pizza_type_id) from pizza_types  
group by category;
```

	category	count(pizza_type_id)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

# Question 9

**Group the orders by date and calculate the average number of pizzas ordered per day.**

```
select round(avg(order_quantity),0) as pizzas_ordered
      from
(select orders.order_date,sum(order_details.quantity)
      as order_quantity
  from orders join order_details
 on orders.order_id = order_details.order_id
 group by orders.order_date) as quantities;
```

	pizzas_ordered
▶	138

# Question 10

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

```
select
sum(pizzas.price * order_details.quantity) as
revenue, pizza_types.name
from pizzas join pizza_types
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;
```

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

# Question 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) as
total_sales
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id)*100,2)
as revenue
from pizzas join pizza_types
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.category
order by revenue desc;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

# Question 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 order_date) as sales;
```



	order_date	cum_revenue
►	2015-01-01	2713.85000000000004
	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	23990.3500000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.3000000000003
	2015-01-14	32358.7000000000004
	2015-01-15	34343.500000000001
	2015-01-16	36937.650000000001
	2015-01-17	39001.750000000001
	2015-01-18	40978.6000000000006
	2015-01-19	43365.750000000001
	2015-01-20	45763.650000000001

# Question 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 order_details join pizzas
            on order_details.pizza_id = pizzas.pizza_id
          join pizza_types
            on pizza_types.pizza_type_id = pizzas.pizza_type_id
        group by pizza_types.category,pizza_types.name) as a)
      as b
where rn <=3;
```

	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

*Thank  
you!*