



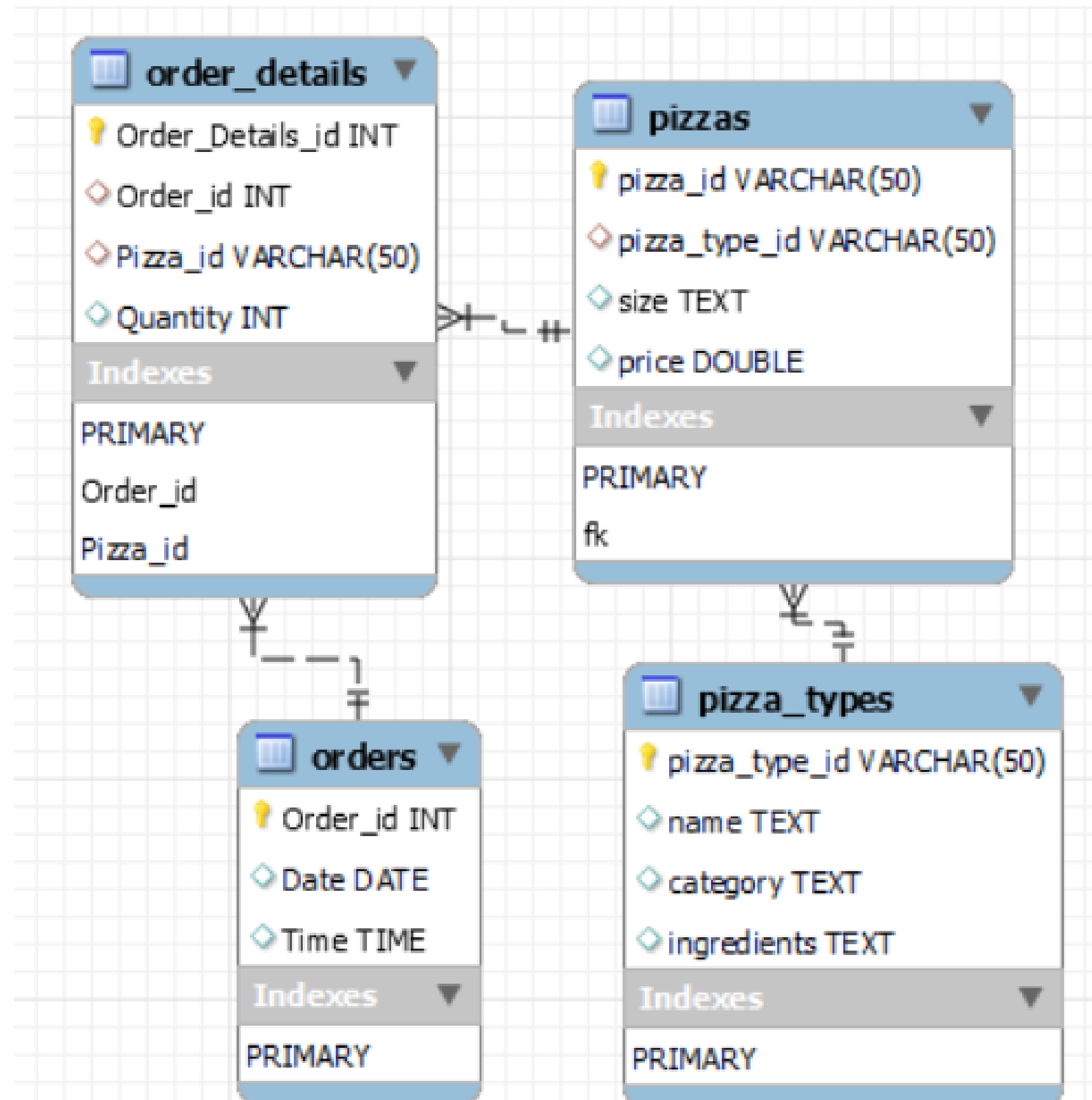
SQL Project on Pizza Sales



About Project

The project aims to analyze a pizza sales dataset using SQL queries to derive insights such as total orders, revenue, popular pizza types, order distribution by hour, category-wise pizza distribution, average daily orders, revenue contribution by category, cumulative revenue analysis, and top pizza types based on revenue for each category, facilitating data-driven decision-making for a pizza business.

ERR Diagram



Retrieve the total number of orders placed

Query

```
select count(*) as Total_order_Placed from orders;
```

Output

	Total_order_Placed
▶	21350



Calculate the total revenue generated from pizza sales.

Query

```
select round(sum(price),2) as Total_Revenue from order_details o
join pizzas p
on o.Pizza_id=p.pizza_id;
```

Output

	Total_Revenue
▶	801944.7



Identify the highest-priced pizza.

Query

```
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;
```

Output

	name	price
▶	The Greek Pizza	35.95



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

Query

```
select size,count(size) as count_of_Order from pizzas
join order_details
on Pizzas.Pizza_id=order_Details.Pizza_id
group by Size
order by Count(size) desc;
```

Output

	size	count_of_Order
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

Query

```
select name,sum(Quantity) as Total_Quantity from pizza_types
join pizzas
on Pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details
on pizzas.Pizza_id=order_details.Pizza_id
group by name
order by Total_Quantity desc
limit 5;
```

Output

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



find the total quantity of each pizza category ordered

Query

```
select category,sum(quantity) as Total_Quantity from pizza_types
join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details
on pizzas.Pizza_id=order_details.Pizza_id
group by category
order by Total_Quantity desc;
```

Output

	category	Total_Quantity
►	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



distribution of orders by hour of the day

Query

```
select hour(time) as Hour_of_the_day,count(order_id) as Total_orders from orders
group by hour(time)
order by hour(time);
```

Output

	Hour_of_the_day	Total_orders
▶	9	1
	10	8
	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

Order by Count of orders

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



find the category-wise distribution of pizzas

Query

```
select Category,count(pizza_type_id) as Count_of_Types_of_Pizza from pizza_types
group by Category
order by Count_of_Types_of_Pizza desc;
```

Output

	Category	Count_of_Types_of_Pizza
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6



calculate the average number of pizzas ordered per day

Query

```
select round(avg(Quantity),0) as Avg_pizza_ordered from
(select date,sum(quantity) as Quantity from orders
join order_details
on orders.Order_id=order_details.Order_id
group by Date) as temp;
```

Output

	Avg_pizza_ordered
1	138



top 3 most ordered pizza types based on revenue

Query

```
select Name,  
sum(Quantity*price) as Total_Revenue from pizza_types  
join Pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id  
join order_details  
on pizzas.pizza_id=order_details.Pizza_id  
group by Name  
order by Total_Revenue desc  
limit 3;
```

Output

	Name	Total_Revenue
►	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



Calculate the percentage contribution of each Category to total revenue

Query

```
select category,round(sum(quantity*price),2) as Total_Revenue ,round(sum(quantity*price)/(  
select sum(order_details.Quantity*pizzas.price) as Revuene from order_details  
join pizzas on order_details.Pizza_id=pizzas.pizza_id) * 100 ,2) AS Percentage  
from pizza_types join Pizzas  
on pizza_types.pizza_type_id=pizzas.pizza_type_id join order_details  
on Pizzas.Pizza_id = Order_details.pizza_id  
group by category  
order by Percentage desc;
```

Output

	category	Total_Revenue	Percentage
►	Classic	220053.1	26.91
	Supreme	208197	25.46
	Chicken	195919.5	23.96
	Veggie	193690.45	23.68



Analyze the cumulative revenue generated over time

Query

```
select Date,sum(revenue) over (order by date) as Cumulative_revenue from
(select date,
sum(quantity*price) as Revenue from pizzas
join order_details
on pizzas.pizza_id=order_details.Pizza_id
join orders
on order_details.Order_id=orders.Order_id
group by date
order by date) as Temp;
```

Output

Date	Cumulative_revenue
2015-01-01	2714
2015-01-02	5446
2015-01-03	8108
2015-01-04	9864
2015-01-05	11930
2015-01-06	14358
2015-01-07	16561
2015-01-08	19399
2015-01-09	21526
2015-01-10	23990
2015-01-11	25863
2015-01-12	27782
2015-01-13	29831
2015-01-14	32359
2015-01-15	34344
2015-01-16	36938
2015-01-17	39002
2015-01-18	40979
2015-01-19	43366
2015-01-20	45764
2015-01-21	47804
2015-01-22	50301
2015-01-23	52725
2015-01-24	55014



Determine the top 3 most ordered pizza types based on revenue for each pizza category

Query

```
select Name,category,Rank_ from
(select name,category,Revenue,rank() over(partition by category order by Revenue desc) as Rank_ from
(select Category,name ,sum(quantity*price) as Revenue from pizza_types
join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join order_details
on pizzas.pizza_id=order_details.Pizza_id
group by Category,name) as temp) as temp2
where rank_<=3;
```

Output

Name	category	Rank_
The Thai Chicken Pizza	Chicken	1
The Barbecue Chicken Pizza	Chicken	2
The California Chicken Pizza	Chicken	3
The Classic Deluxe Pizza	Classic	1
The Hawaiian Pizza	Classic	2
The Pepperoni Pizza	Classic	3
The Spicy Italian Pizza	Supreme	1
The Italian Supreme Pizza	Supreme	2
The Sicilian Pizza	Supreme	3
The Four Cheese Pizza	Veggie	1
The Mexicana Pizza	Veggie	2
The Five Cheese Pizza	Veggie	3

