

# PIZZA SALES SQL PROJECT







# HELLO!

My name is Deepshikha Gupta and I am excited to present my project on Pizza sales.

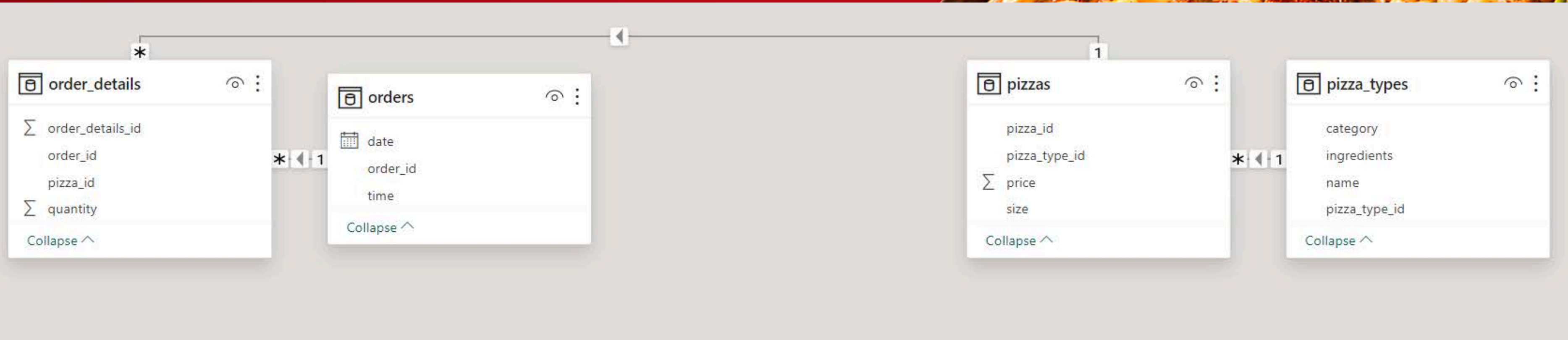
In this project, I analysed sales data for a pizza restaurant. Using SQL, I queried the sales database to extract information on popular pizza varieties, total revenue.

My goal was to identify which pizzas are bestsellers, peak sales periods.





# DATABASE SCHEMA







# RETRIVE THE TOTAL NUMBER OF ORDERS PLACED

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

Result Grid	
	total_order
▶	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 pizzas.pizza_type_id = pizza_types.pizza_type_id  
 order by 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 Row
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	





# LIST THE 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;
```

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





# 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		
	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





# 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 as date , sum(order_details.quantity) as quantity  
from orders join order_details  
on orders.order_id = order_details.order_id  
group by 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


	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



# ANALYSE 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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015-01-10	23990.350000000002
	2015-01-11	25862.65
	2015-01-12	27781.7
	2015-01-13	29831.300000000003
	2015-01-14	32358.700000000004
	2015-01-15	34343.50000000001
	2015-01-16	36937.65000000001
	2015-01-17	39001.75000000001
	2015-01-18	40978.600000000006
	2015-01-19	43365.75000000001
	2015-01-20	45763.65000000001
	2015-01-21	47804.20000000001
	2015-01-22	50300.90000000001



# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY REVENUE GENERATED OVER TIME

```
• 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 pizzas.pizza_id = order_details.pizza_id
   group by pizza_types.category, pizza_types.name) as a) as b
 where rn <=3;
```

Result Grid     Filter Rows: <input type="text"/>		
	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!

