



PIZZA BAY

SQL PROJECT **PIZZA SALES**

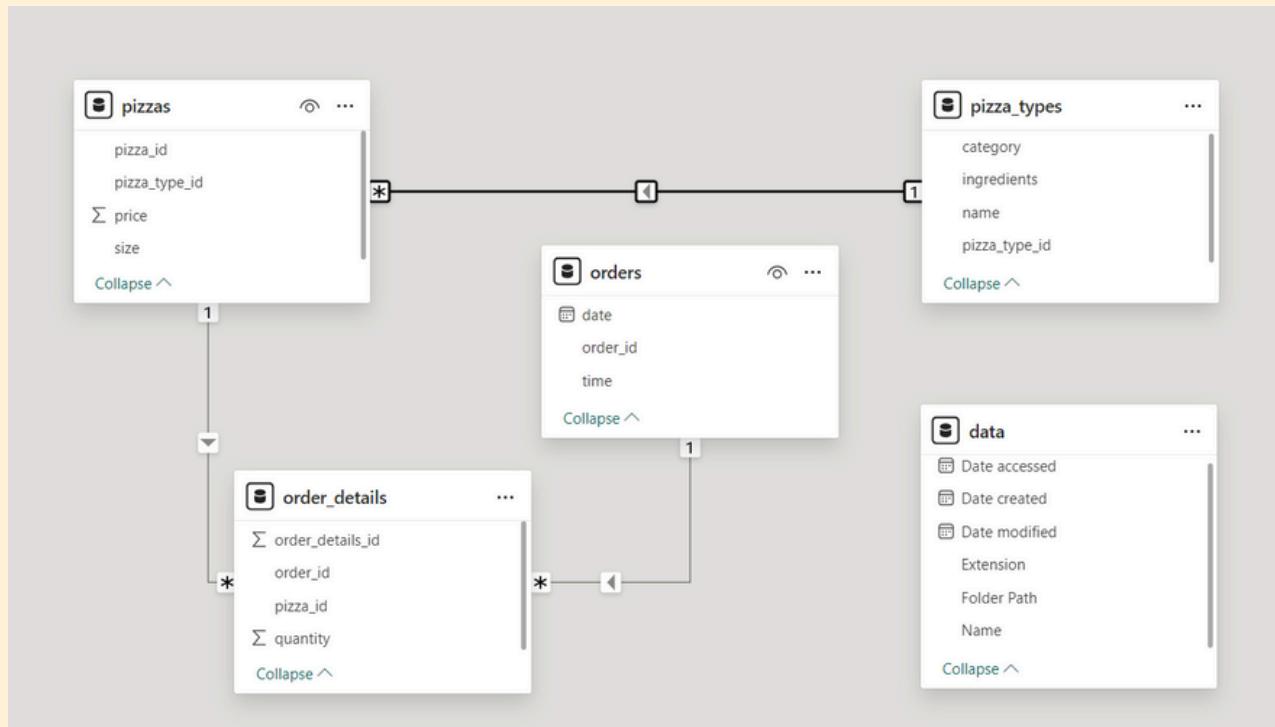
PRESENTED BY
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PIZZA BAY

DATABASE





-- 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 order_details.pizza_id = pizzas.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 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  
GROUP BY pizza_types.name  
ORDER BY quantity DESC  
LIMIT 5;
```

	name	quantity
▶	The Greek Pizza	247870
	The Vegetables + Vegetables Pizza	148722
	The Spinach and Feta Pizza	148722
	The Spinach Pesto Pizza	148722
	The Mexicana Pizza	148722





-- 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 DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050





-- 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





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

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

Result Grid		
	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	
	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;
```

	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 order_details.pizza_id = pizzas.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;
```

	category	revenue
▶	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;
```

	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 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;
```

name	revenue
The Southwest Chicken Pizza	34705.75
The Chicken Alfredo Pizza	16900.25
The Chicken Pesto Pizza	16701.75
The Greek Pizza	28454.100000000013
The Italian Capocollo Pizza	25094





PIZZA BAY

THANK
YOU!!

NOW YOU CAN HAVE A SLICE!



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