

Pizza Sales Insights

The tastiest pizza ever!

Markket
Parm ductien

Best Pizza in
Town !





Project Overview: PizzaHut Sales Data Analysis

Hi, I am Yashaswini ,data enthusiast

I undertook this project to extract meaningful insights from pizza sales data. I utilized SQL queries to analyze the data, answering critical sales-related questions and uncovering actionable trends to inform business decisions.

Database Schema

PIZZAS

Contains pizza details including IDs, prices, and size information

ORDER_DETAILS

Links orders to specific pizzas with quantity information

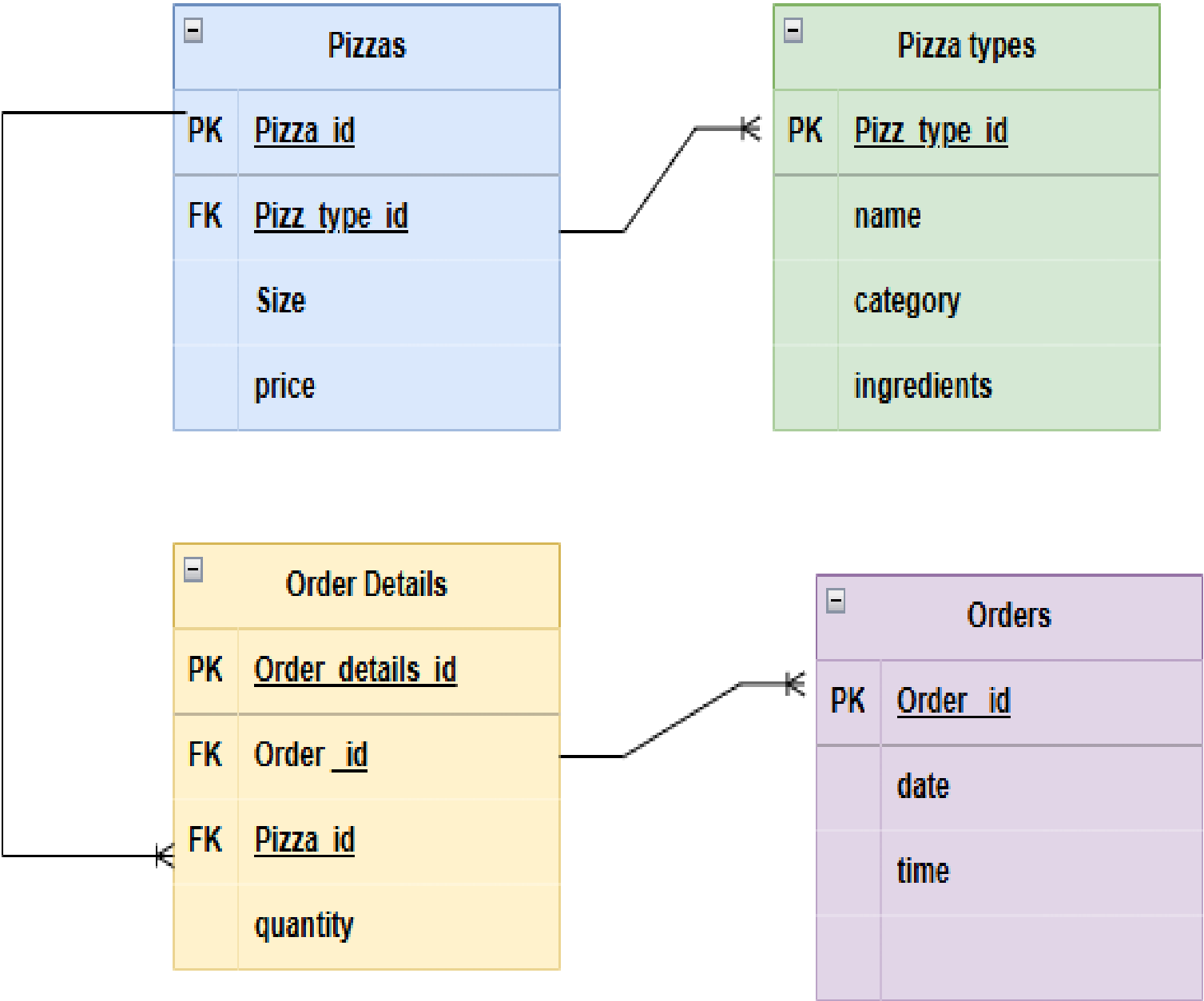
PIZZA_TYPE

Stores categories and names of different pizza varieties

ORDERS

Contains order dates, times, and unique identifiers

ER DIAGRAM FOR PIZZA HUT



Q1. RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SQL Query used:

```
Select count(order_id) Orders_placed  
From Orders;
```

Output:

	Orders_placed
▶	21350

Q2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SQL Query used:

```
SELECT SUM(o.quantity * p.price) AS TotalRevenue  
FROM orders_detail o  
JOIN pizzas p ON o.pizza_id = p.pizza_id;
```

Output:

	TotalRevenue
▶	817860.0500000101

Q3. IDENTIFY THE HIGHEST-PRICED PIZZA

SQL Query used:

```
select p. price, pt.name
from pizzas p
join pizza_type pt on p.pizza_type_id = pt.pizza_type_id
order by price desc
limit 5;
```

Output

	price	name
▶	9.75	The Pepperoni Pizza
	35.95	The Greek Pizza
	25.5	The Greek Pizza
	23.65	The Brie Carre Pizza
	21	The Italian Vegetables Pizza

Q4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

SQL Query used:

```
SELECT p.size,count(od.orders_deatil_id)
FROM orders_detail od
JOIN pizzas p ON od.pizza_id = p.pizza_id
Group by p.size
order by p.size
limit 5;
```

Output

	size	count(od.orders_deatil_id)
►	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

Q5. LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

SQL Query used:

```
SELECT pt.name, COUNT(od.orders_id) AS pizza_count
FROM pizzas p
JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id
JOIN orders_detail od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY pizza_count DESC
LIMIT 5;
```

Output

	name	pizza_count
▶	The Classic Deluxe Pizza	2416
	The Barbecue Chicken Pizza	2372
	The Hawaiian Pizza	2370
	The Pepperoni Pizza	2369
	The Thai Chicken Pizza	2315

Q6.Determine the distribution of orders by hour of the day.

SQL Query used:

```
SELECT hour(order_time) AS hour_of_day, COUNT(orders.order_id) AS number_of_orders
FROM orders
GROUP BY hour_of_day
ORDER BY number_of_orders DESC
limit 5;
```

Output

	hour_of_day	number_of_orders
►	12	2520
	13	2455
	18	2399
	17	2336
	19	2009

Q7. Calculate the average number of pizzas ordered per day.

SQL Query used:

```
select date(o.order_date) , avg(od.quantity)
FROM orders o
join orders_detail od on o.order_id=od.orders_id
group by order date
```

Output:

	date(o.order_date)	avg(od.quantity)
►	2015-01-01	1.0062111801242235
	2015-01-02	1.03125
	2015-01-17	1.0245901639344261
	2015-06-17	1.0161290322580645
	2015-06-18	1.0175438596491229
	2015-06-19	1
	2015-06-20	1.032258064516129
	2015-06-21	1.0087719298245614
	2015-06-22	1.0218978102189782
	2015-01-18	1.0252100840336134
	2015-06-23	1.008130081300813
	2015-06-24	1.0073529411764706
	2015-06-25	1.0277777777777777

Q8. Determine the top 3 most ordered pizza types based on revenue.

SQL Query used:

```
SELECT SUM(o.quantity * p.price) AS TotalRevenue,pt.name as type
FROM orders_detail o
JOIN pizzas p ON o.pizza_id = p.pizza_id
join pizza_type pt on p.pizza_type_id=pt.pizza_type_id
group by o.quantity,p.price,pt.category,pt.name
order by totalRevenue desc
limit 3;
```

Output

	TotalRevenue	type
▶	27410.75	The Thai Chicken Pizza
	24235	The Five Cheese Pizza
	22161	The Spicy Italian Pizza

Q9. Calculate the percentage contribution of each pizza type to total revenue.

SQL Query used:

```
SELECT pt.category AS pizza_type_name, SUM(od.quantity * p.price) AS total_revenue, (SUM(od.quantity * p.price) * 100.0) /  
(SELECT SUM(od.quantity * p.price)  
FROM orders_detail od JOIN pizzas p ON od.pizza_id = p.pizza_id) AS percentage  
FROM orders_detail od JOIN pizzas p ON od.pizza_id = p.pizza_id  
JOIN pizza_type pt ON p.pizza_type_id = pt.pizza_type_id  
GROUP BY pt.category ORDER BY percentage DESC;
```

Output

	pizza_type_name	total_revenue	percentage
►	Classic	220053.100000000033	26.90596025566937
	Supreme	208196.999999999988	25.456311260098513
	Chicken	195919.5	23.955137556846992
	Veggie	193690.449999999777	23.68259092738365

Q10 . Analyze the cumulative revenue generated over time.

SQL Query used:

```
select DATE(o.order_date) AS order_date,  
SUM(od.quantity * p.price) AS daily_revenue,  
SUM(SUM(od.quantity * p.price))  
  OVER (ORDER BY DATE(o.order_date)) AS cumulative_revenue  
FROM orders_detail od  
JOIN orders o ON od.orders_id = o.order_id  
JOIN pizzas p ON od.pizza_id = p.pizza_id  
GROUP BY DATE(o.order_date)  
ORDER BY DATE(o.order_date)  
limit 5;
```

Output

	order_date	daily_revenue	cumulative_revenue
►	2015-01-01	2713.8500000000004	2713.8500000000004
	2015-01-02	2731.9	5445.75
	2015-01-03	2662.3999999999996	8108.15
	2015-01-04	1755.4500000000003	9863.6
	2015-01-05	2065.95	11929.55

Q 11 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

SQL Query used:

```
SELECT SUM(o.quantity * p.price) AS TotalRevenue,pt.category,pt.name
FROM orders_detail o
JOIN pizzas p ON o.pizza_id = p.pizza_id
join pizza_type pt on p.pizza_type_id=pt.pizza_type_id
group by o.quantity,p.price,pt.category,pt.name
order by totalRevenue desc
limit 3;
```

Output

	TotalRevenue	category	name
►	27410.75	Chicken	The Thai Chicken Pizza
	24235	Veggie	The Five Cheese Pizza
	22161	Supreme	The Spicy Italian Pizza

Conclusion: Using Data for Business Growth

This analysis of pizza sales data shows how SQL queries can turn raw information into useful business insights, highlighting key trends and growth opportunities.

Key Insights

We found top-selling pizzas, popular sizes, major revenue drivers, and busiest order times.

Smart Data Use

The project used the database well to combine and group data, showing how structured data helps deep analysis.

Future Business Plans

These insights will help us make better decisions, like managing inventory and improving marketing.