



# Pizza Sales Analysis: Unlocking Insights with SQL

Hello , I am Abhishek Dhokale.  
Welcome to my SQL project focused on analyzing  
pizza sales data. Let's delve into the data-driven  
world of pizza sales.

# Introduction to the SQL Project

## Project Goals

This SQL project aims to analyze pizza sales data from a fictional pizzeria. We'll uncover valuable insights from the pizza sales data using SQL.

## Data Source

The project leverages a comprehensive dataset of pizza sales transactions, including Order Details, Orders, Pizza, Pizza Type.



# Exploring the Pizza Sales Database

## Order Details

Contains details on each sale, including order ID, Pizza ID , Order Detail ID , Quantity.

## Orders Table

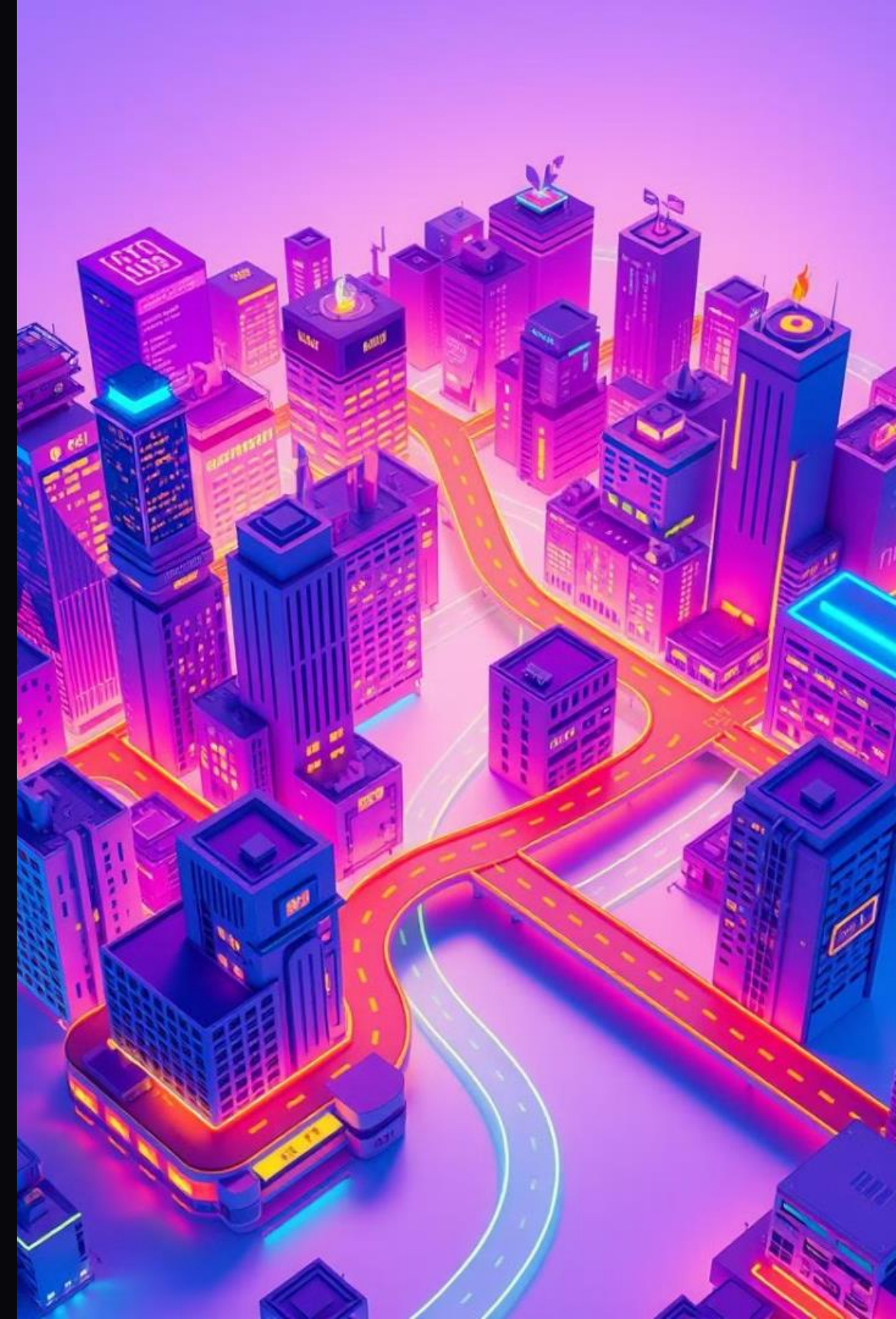
Lists all orders placed, including order ID, Order Date, Order Time.

## Pizzas

Stores Pizza information like Pizza ID , Pizza Type ID, Pizza Size and Price.

## Pizza Details

Lists all pizza including their Names, Pizza Type ID, Category, and Ingredients.





```
create database pizzahut;
```

```
CREATE TABLE orders (  
    order_id INT NOT NULL,  
    order_date DATE NOT NULL,  
    order_time TIME NOT NULL,  
    PRIMARY KEY (order_id)  
);
```

```
CREATE TABLE order_details (  
    order_details_id INT NOT NULL,  
    order_id INT NOT NULL,  
    pizza_id TEXT NOT NULL,  
    quantity INT NOT NULL,  
    PRIMARY KEY (order_details_id)  
);
```



# SQL Queries

Retrieve the total number of orders placed.

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

```
SELECT:
select = from: Jasah:
where:
where:
crdesi: by: latetalle>
    SELECT = tinss:
intciasky'T = SELECT: (PBATIFEslale)>
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ORDE: inlrnessa.y>
    lstaps: Jes.lneslalk>
acytahlt: apps>
```

Result Grid	
	total_orders
▶	21350

# SQL Queries

Calculate the total revenue generated from pizza sales.

**SELECT**

ROUND(SUM(ord.quantity \* pi.price), 2) AS total\_sales

**FROM**

order\_details AS ord

**JOIN**

pizzas AS pi ON ord.pizza\_id = pi.pizza\_id

Result Grid

total\_sales

817860.05

# SQL Queries

Identify the highest-priced pizza.

```
SELECT
```

```
    pt.name, pi.price
```

```
FROM
```

```
    pizza_types AS pt
```

```
    JOIN
```

```
    pizzas AS pi ON pt.pizza_type_id = pi.pizza_type_id
```

```
ORDER BY pi.price DESC
```

```
LIMIT 1;
```

Result Grid		Filter Rows:
	name	price
▶	The Greek Pizza	35.95



# SQL Queries

Identify the most common pizza size ordered

```
SELECT
```

```
    COUNT(od.order_details_id) as order_count, pi.size
```

```
FROM
```

```
    order_details AS od
```

```
    JOIN
```

```
    pizzas AS pi ON od.pizza_id = pi.pizza_id
```

```
GROUP BY pi.size
```

```
ORDER BY order_count DESC
```

```
LIMIT 1;
```

Result Grid			Filter
	order_count	size	
▶	18526	L	



# SQL Queries

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

```
SELECT
```

```
    pt.name, SUM(od.quantity) AS total_quantity
```

```
FROM
```

```
    pizza_types AS pt
```

```
    JOIN
```

```
    pizzas AS pi ON pt.pizza_type_id = pi.pizza_type_id
```

```
    JOIN
```

```
    order_details AS od ON pi.pizza_id = od.pizza_id
```

```
GROUP BY pt.name
```

```
ORDER BY total_quantity DESC
```

```
LIMIT 5;
```

Result Grid			Filter Rows:
	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	

# SQL Queries

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

```
SELECT
    pt.category, SUM(od.quantity) AS total_quantity
FROM
    order_details AS od
    JOIN
    pizzas AS pi ON pi.pizza_id = od.pizza_id
    JOIN
    pizza_types AS pt ON pt.pizza_type_id = pi.pizza_type_id
GROUP BY pt.category
ORDER BY total_quantity DESC;
```

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

# SQL Queries

Determine the distribution of orders by hour of the day.

```
SELECT
```

```
    HOUR(order_time) AS hours, COUNT(order_id) AS order_count
```

```
FROM
```

```
    orders
```

```
GROUP BY HOUR(order_time);
```

Result Grid			Filter Rows:
	hours	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	



# SQL Queries

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

# SQL Queries

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

```
SELECT:
select = from: Jasah:
where:
where:
crdesi: by: latetalle>
SELECT = tinss:
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ROM (carrs)
ttelänk: tapt:
instrily: famns)
FROM: fwhefrestful> cassh
ORDE: inlrnessa.y>
lstaps: Jes.lneslalk>
acytahlt: apps>
```

```
SELECT
    ROUND(AVG(quantity), 0) as average_pizza_order_per_day
FROM
    (SELECT
        ord.order_date, SUM(od.quantity) AS quantity
    FROM
        orders AS ord
    JOIN order_details AS od ON ord.order_id = od.order_id
    GROUP BY ord.order_date) AS order_quantity;
```

Result Grid		Filter Rows:
	average_pizza_order_per_day	
▶	138	

# SQL Queries

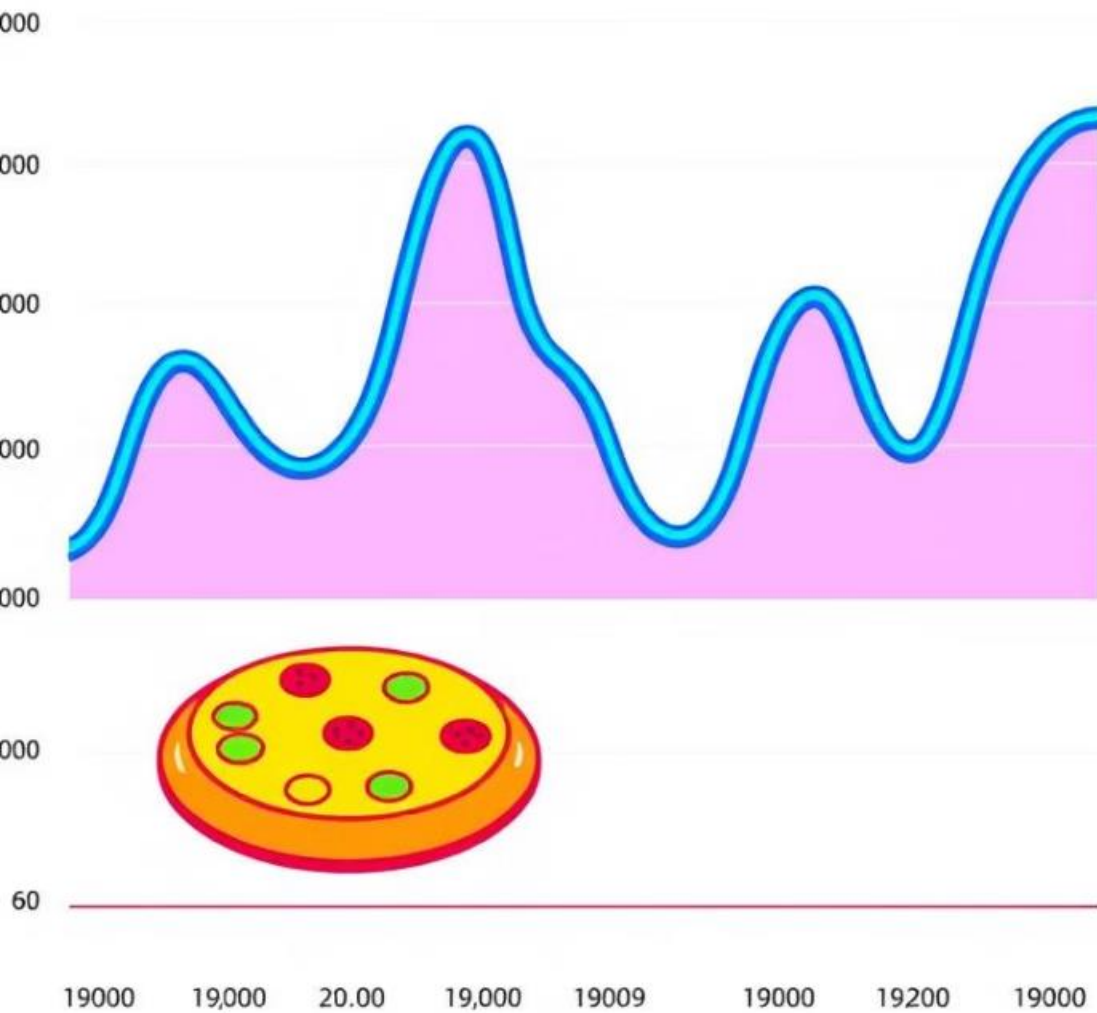
Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
    pt.name, SUM(od.quantity * pi.price) AS revenue
FROM
    pizzas AS pi
    JOIN
    pizza_types AS pt ON pi.pizza_type_id = pt.pizza_type_id
    JOIN
    order_details AS od ON pi.pizza_id = od.pizza_id
GROUP BY pt.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	



# PIZZA SALES



## Analyzing Sales Trends

1

Hourly Trends

Identifying peak Hour for pizza sales in a day.

2

Day to DAY Sales

Analyzing the overall growth of sales over Time.

3

Most Revenue generated Pizza

Determining which Pizza has the highest volume of sales.

# Identifying Top-Selling Items

1

Classic

The classic favorite reigns supreme!

2

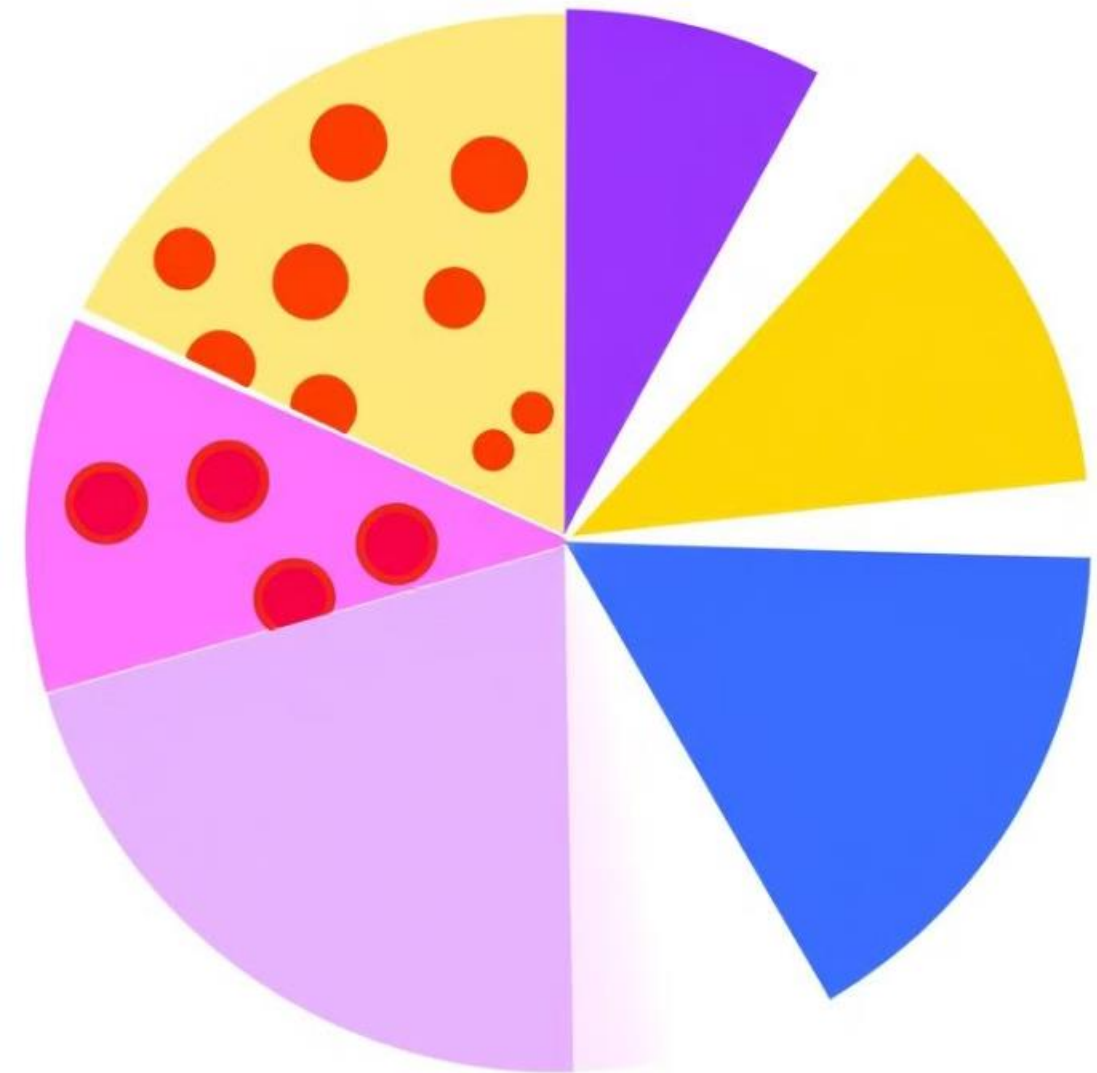
Supreme

A combination of toppings appeals to many.

3

Veggie

Vegetarian options are gaining popularity.





## Conclusion :

The SQL project yielded valuable insights into pizza sales trends, customer behavior, and top-selling items. These findings can be used to optimize marketing strategies, inventory management, and overall business operations, leading to increased sales and customer satisfaction.