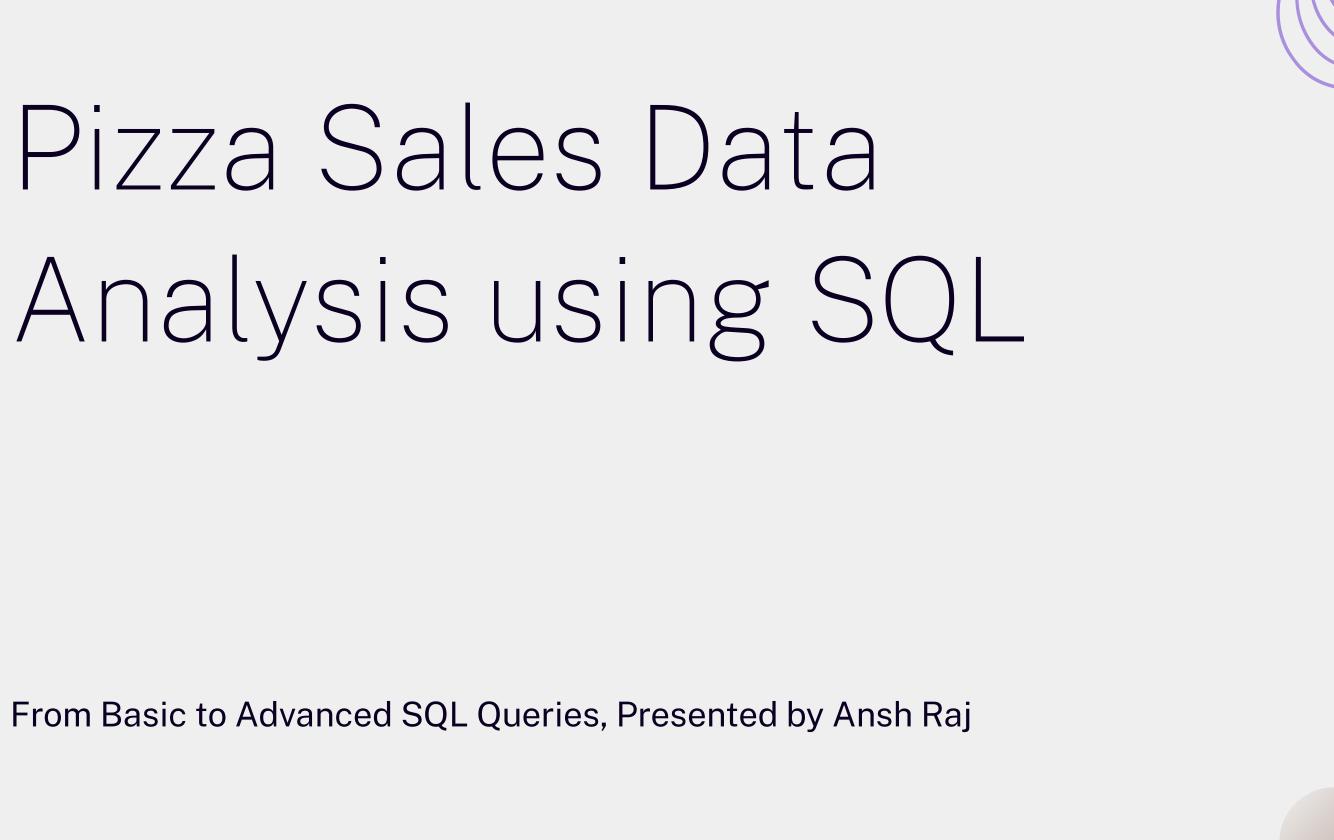
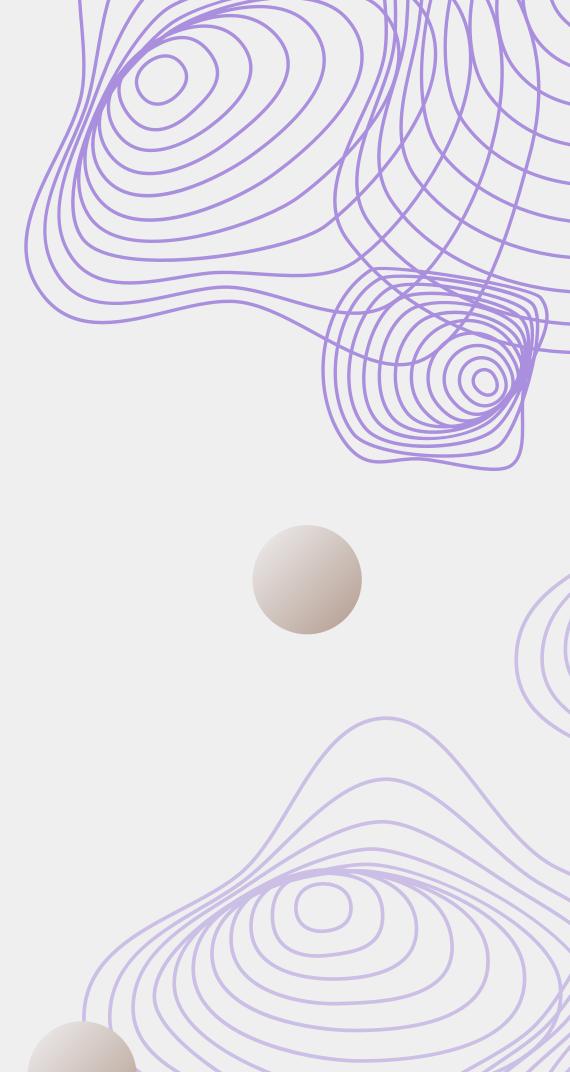
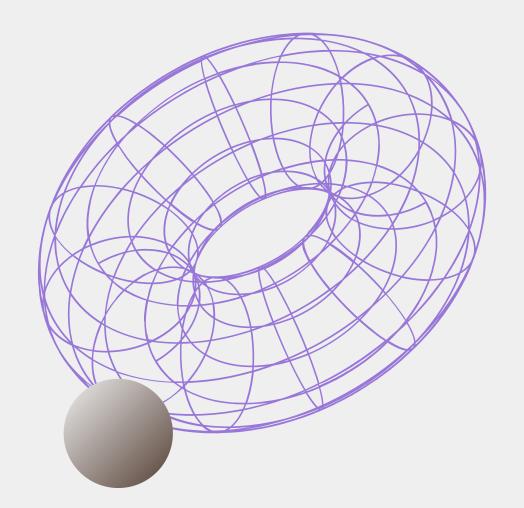
PIZZA SALES ANALYSIS



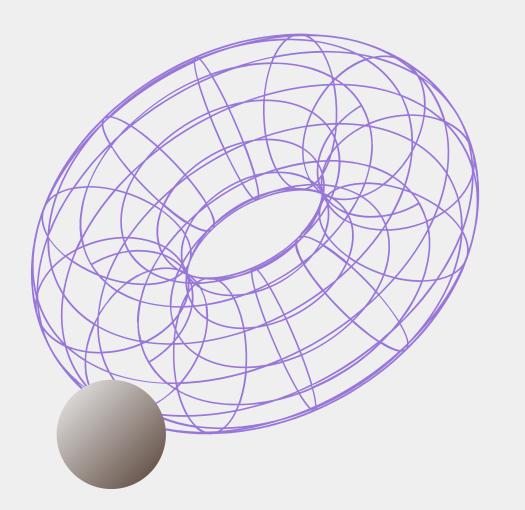


Analyzing Pizza Sales Data with SQL



This project focuses on using SQL to analyze pizza sales data effectively. By leveraging tools like MySQL and CSV files, we can gain valuable insights into sales trends, customer preferences, and revenue generation.

Setting Up the Database Structure



Creating a well-structured database is essential for efficient data analysis. The **pizzahut** database comprises multiple tables: orders, order_details, pizzas, and pizza_types, all imported from CSV files to ensure seamless integration and accessibility of data.

Total number of orders placed.

```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```





Total revenue generated from pizza sales

```
ROUND(SUM(order_details.quantity * pizzas.price),

2) AS total_sales

FROM

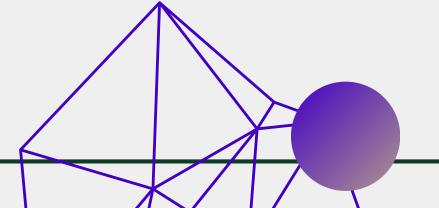
order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id
```

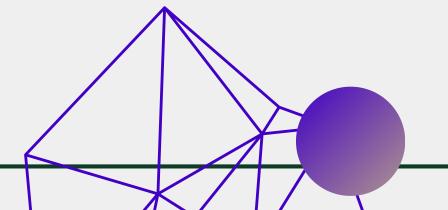
total_sales

▶ 817860.05



Highest-priced pizza

	name	price	
•	The Greek Pizza	35.95	



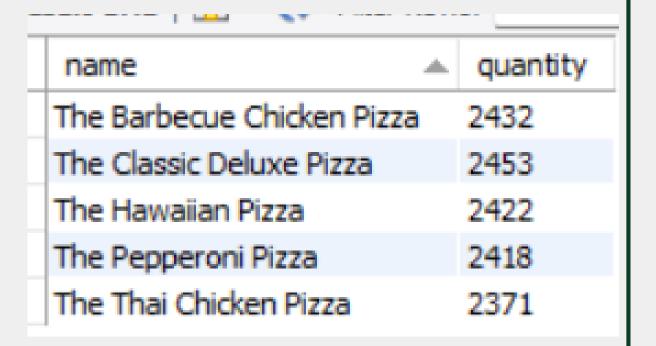
Most common pizza size ordered

```
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;
```

	size	order_count
•	L	18526
	М	15385
	S	14137
	XL	544
	XXL	28

Top 5 most ordered pizza types along with their quantities

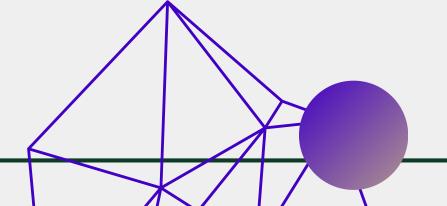
```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```



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



Distribution of orders by hour of the day

```
SELECT

HOUR(order_time) AS hour,

COUNT(order_id) AS order_count

FROM

orders

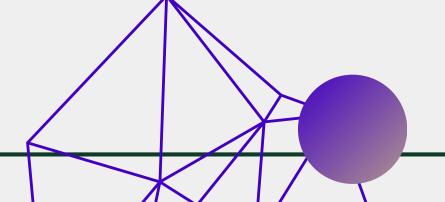
GROUP BY

HOUR(order_time)

ORDER BY

hour;
```

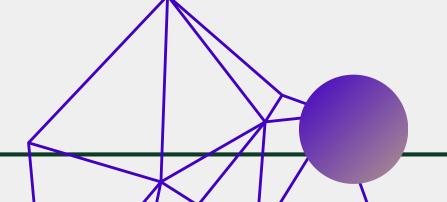
	hour	order_count
•	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663



Category-wise distribution of pizzas

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

	category	count_name
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



Average number of pizzas ordered per day

```
SELECT
   ROUND(AVG(quantity), 0) as avg_pizza_orderd_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;
```

round(avg(quantity),0)

138

Top 3 most ordered pizza types based on revenue

```
SELECT
   pizza_types.name,
   SUM(order_details.quantity * pizzas.price) A5 revenue
FROM
   pizza_types
JOIN
   pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN
   order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY
   pizza types.name
ORDER BY
   revenue DESC
                                                       name
                                                                                             revenue
LIMIT 3;
                                                     The Thai Chicken Pizza
                                                                                            43434.25
                                                      The Barbecue Chicken Pizza
                                                                                            42768
                                                     The California Chicken Pizza
                                                                                            41409.5
```

Percentage contribution of each pizza type to total revenue

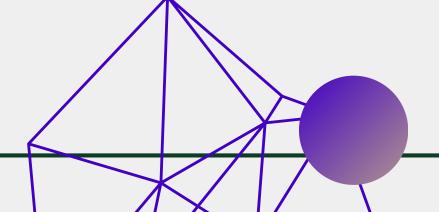
```
SELECT
    pizza_types.category,
   ROUND (
        (SUM(order_details.quantity * pizzas.price) /
        (SELECT ROUND(SUM(order_details.quantity * pizzas.price), 2)
         FROM order details
         JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id)) * 100, 2
    ) AS revenue
FROM
    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;
```

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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 pizzas.pizza_id = order_details.pizza_id
   JOIN
        orders ON orders.order_id = order_details.order_id
   GROUP BY
       orders.order_date
) AS sales;
```

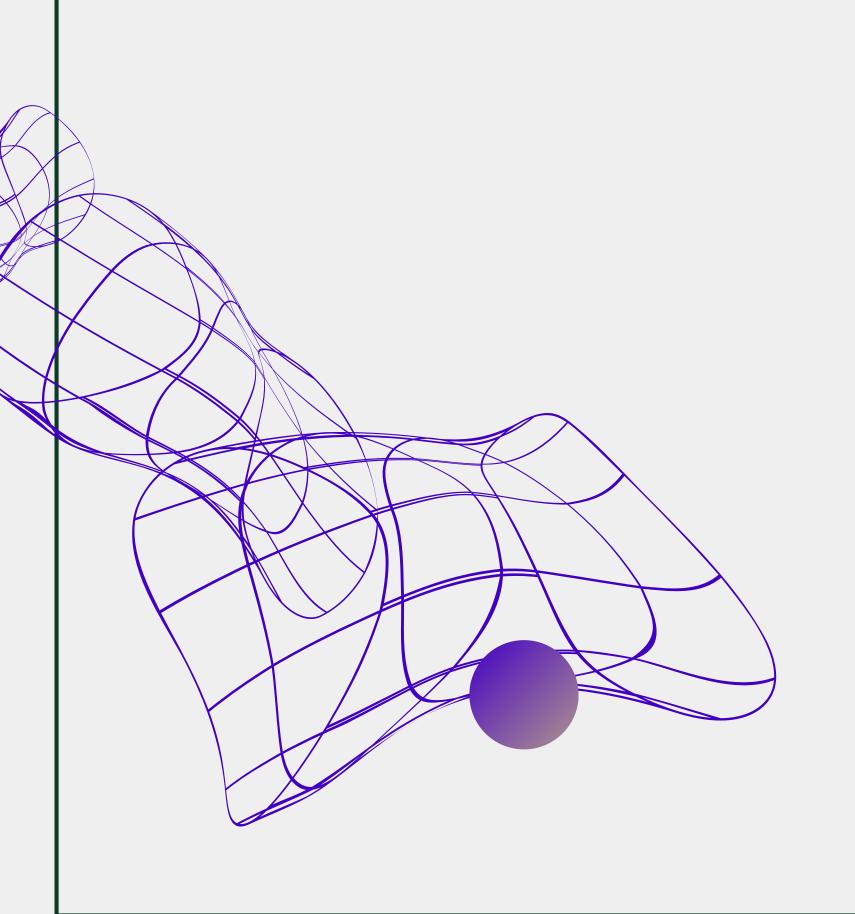
order_date	cum_revenue
2015-12-07	769964.25
2015-12-08	771820.5
2015-12-09	774392.05
2015-12-10	776377.65
2015-12-11	779011.65
2015-12-12	780971.8
2015-12-13	783216.9500000001
2015-12-14	785389.55
2015-12-15	787777
2015-12-16	790011.8
2015-12-17	791892.55
2015-12-18	794778.8500000001
2015-12-19	797083.05
2015-12-20	799187.9500000001
2015-12-21	801288.65
2015-12-22	803171.6
2015-12-23	805415.9
2015-12-24	807553.75
2015-12-26	809196.8
2015-12-27	810615.8
2015-12-28	812253
2015-12-29	813606.25
2015-12-30	814944.05
2015-12-31	817860.05



Top 3 most ordered pizza types based on revenue for each pizza category

```
select name, revenue from
(SELECT
    category,
    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 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	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5



Thank You for Your Attention

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