

# PIZZA SALES ANALYSIS

In this presentation i have used SQL Quary to solve  
the questio as instructed

**Let's start our adventure in the world of pizza!**

**Predented by Dhruba Banerjee**

# The total number of order place

```
USE salesanalysis;  
  
SELECT * FROM `orders.csv_orders.csv`;  
  
SELECT COUNT(*) AS total_orders  
FROM `orders.csv_orders.csv`;
```



Result Grid	
	total_orders
▶	21350

# The total revenue generated from pizza sales?

```
select * from `pizzas.csv_pizzas.csv`  
  
SELECT SUM(quantity * price) AS total_revenue  
FROM `pizzas.csv_pizzas.csv`, `order_details.csv_order_details.csv`
```



Result Grid	
	total_revenue
▶	78242644.20013672

# The highest priced pizza?

```
21   SELECT *
22   FROM `pizzas.csv_pizzas.csv`
23   ORDER BY price DESC
24   LIMIT 1;
```

```
25
26
```

< [REDACTED]

Result Grid | Filter Rows: [REDACTED] | Export

	pizza_id	pizza_type_id	size	price
▶	the_greek_xxL	the_greek	XXL	35.95

# The most common pizza size ordered?

```
33 •   SELECT size  
34     FROM `pizzas.csv_pizzas.csv`  
35   GROUP BY size  
36 ORDER BY COUNT(*) DESC  
37 LIMIT 1;
```



Result Grid	
	size
▶	S

# The top 5 most ordered pizza types along their quantities.

```
SELECT pizza_type_id, COUNT(*) AS quantity  
FROM `pizzas.csv_pizzas.csv`  
GROUP BY pizza_type_id  
ORDER BY quantity DESC  
LIMIT 5;
```



	pizza_type_id	quantity
▶	the_greek	5
	bbq_ckn	3
	cali_ckn	3
	ckn_alfredo	3
	ckn_pesto	3

# The quantity of each pizza categories ordered.

```
SELECT category, COUNT(*) AS quantity  
FROM `pizza_types.csv_pizza_types.csv`  
GROUP BY category;
```



	category	quantity
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

# The distribution of orders by hours of the day.

```
SELECT  
    HOUR(CONCAT(date, ' ', time)) AS order_hour,  
    COUNT(*) AS order_count  
FROM  
    `orders.csv_orders.csv`  
GROUP BY  
    order_hour  
ORDER BY  
    order_hour;
```



	order_hour	order_count
▶	9	1
	10	8
	11	1231
	12	2520
	13	2455

Result 13 ×

# The category-wise distribution of pizzas.

```
SELECT  
    category,  
    COUNT(*) AS total_orders  
FROM  
    `pizza_types.csv_pizza_types.csv`  
GROUP BY  
    category  
ORDER BY  
    total_orders DESC;
```



	category	total_orders
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

Result 14 ×

# The average number of pizzas ordered per day.

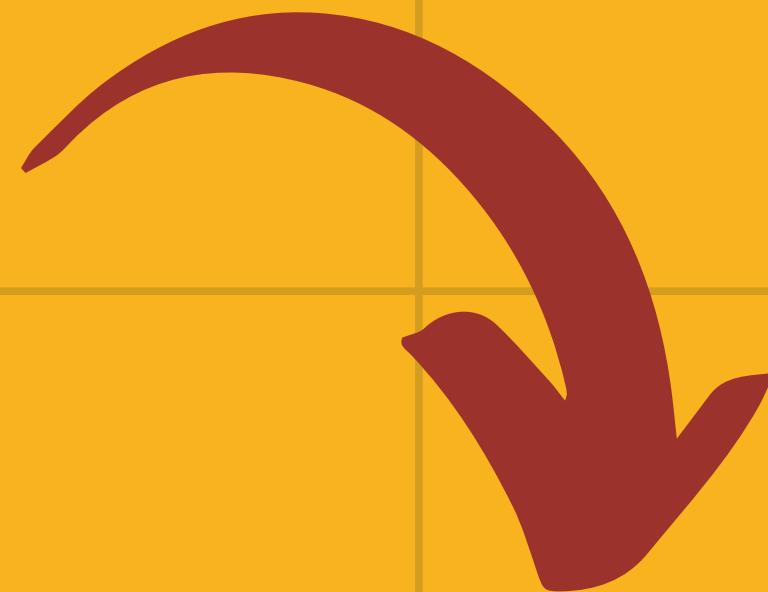
```
81  SELECT
82      COUNT(*) / COUNT( DISTINCT 'date') AS avg_pizzas_per_day
83  FROM
84      `pizza_types.csv_pizza_types.csv`;
85
86
```

Result Grid | Filter Rows:  Export: Wrap Cell Content:

avg_pizzas_per_day
32.0000

# Top 3 most ordered pizza type base on revenue.

```
SELECT
    pt.name AS pizza_type_name,
    SUM(od.quantity * p.price) AS total_revenue
FROM
    salesanalysis.`order_details.csv_order_details.csv` od
JOIN
    salesanalysis.`pizzas.csv_pizzas.csv` p ON od.pizza_id = p.pizza_id
JOIN
    salesanalysis.`pizza_types.csv_pizza_types.csv` pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY
    pt.name
ORDER BY
    total_revenue DESC
LIMIT 3;
```



	pizza_type_name	total_revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

# The percentage contribution of each pizza type to revenue.

```
WITH RevenueData AS (
    SELECT
        pt.name AS pizza_type_name,
        SUM(od.quantity * p.price) AS total_revenue
    FROM
        salesanalysis.`order_details.csv_order_details.csv` od
    JOIN
        salesanalysis.`pizzas.csv_pizzas.csv` p ON od.pizza_id = p.pizza_id
    JOIN
        salesanalysis.`pizza_types.csv_pizza_types.csv` pt ON p.pizza_type_id = pt.pizza_type_id
    GROUP BY
        pt.name
), TotalRevenue AS (
    SELECT
        SUM(total_revenue) AS overall_revenue
    FROM
        RevenueData
)
SELECT
    rd.pizza_type_name,
    rd.total_revenue,
    (rd.total_revenue / tr.overall_revenue) * 100 AS percentage_contribution
FROM
    RevenueData rd
CROSS JOIN
    TotalRevenue tr;
```



	pizza_type_name	total_revenue	percentage_contribution
▶	The Hawaiian Pizza	32273.25	3.9460602092008252
	The Classic Deluxe Pizza	38180.5	4.668341484585287
	The Five Cheese Pizza	26066.5	3.1871589766488753
	The Italian Supreme Pizza	33476.75	4.093212524563337
	The Mexicana Pizza	26780.75	3.27449054395064
	The Thai Chicken Pizza	43434.25	5.310719113863058
	The Prosciutto and Arugula Pizza	24193.25	2.9581161226789328
	The Barbecue Chicken Pizza	42768	5.229256521332711
	The Greek Pizza	28454.100000000013	3.479091563403787
	The Oriental Supreme Pizza	15777.75	1.9200151040470507

# The cumulative revenue generated over time

```
• WITH DailyRevenue AS (
    SELECT
        o.date,
        SUM(od.quantity * p.price) AS daily_revenue
    FROM
        salesanalysis.`order_details.csv_order_details.csv` od
    JOIN
        salesanalysis.`pizzas.csv_pizzas.csv` p ON od.pizza_id = p.pizza_id
    JOIN
        salesanalysis.`orders.csv_orders.csv` o ON od.order_id = o.order_id
    GROUP BY
        o.date
),
CumulativeRevenue AS (
    SELECT
        date,
        daily_revenue,
        SUM(daily_revenue) OVER (ORDER BY date) AS cumulative_revenue
    FROM
        DailyRevenue
)
SELECT
    date,
    daily_revenue,
    cumulative_revenue
FROM
    CumulativeRevenue
ORDER BY
    date;
```

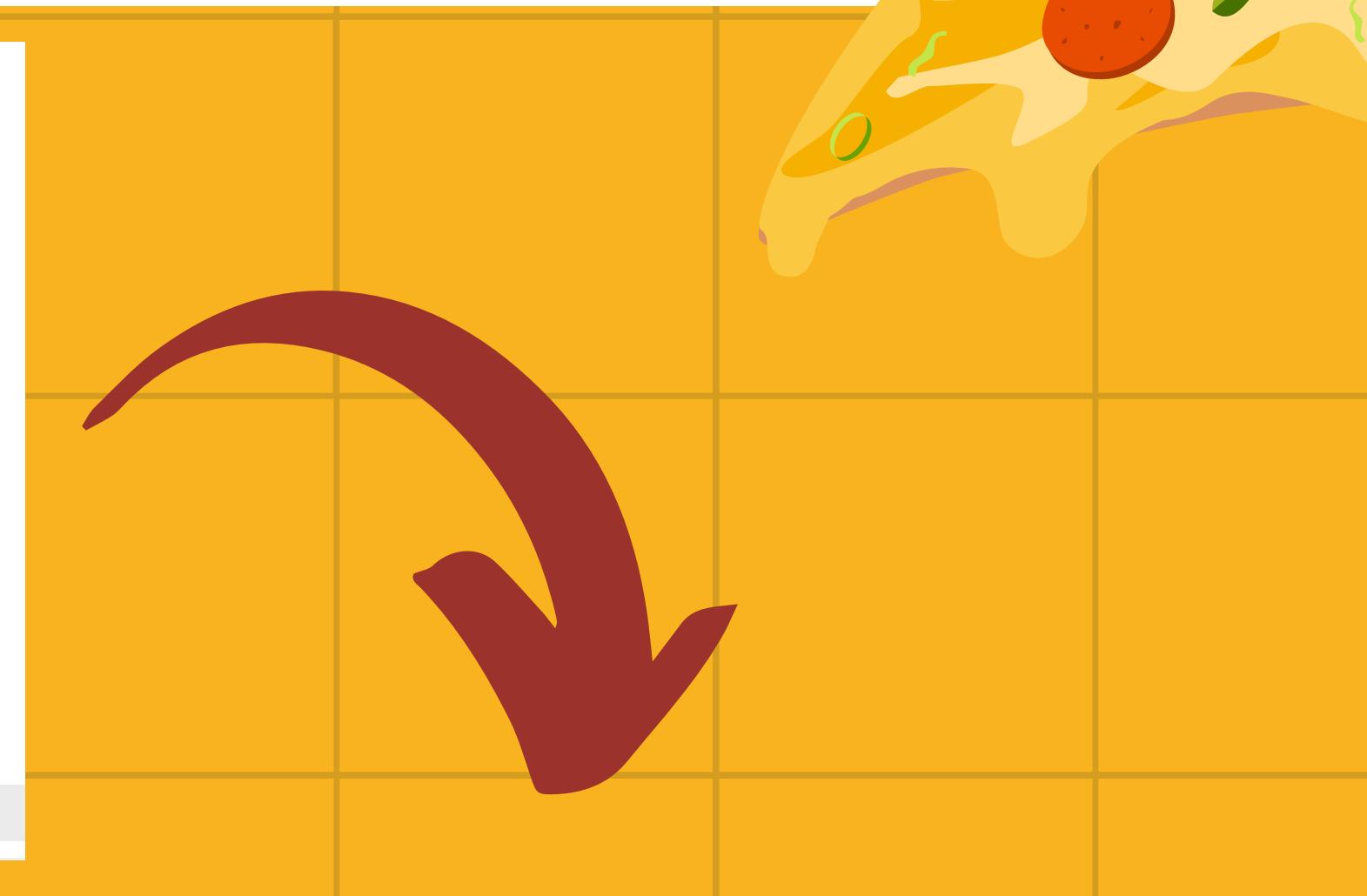


A large red curved arrow points from the SQL code on the left towards the result grid on the right, indicating the flow of data from the query to the final output.

date	daily_revenue	cumulative_revenue
2015-01-01	2713.8500000000004	2713.8500000000004
2015-01-02	2731.8999999999996	5445.75
2015-01-03	2662.4	8108.15
2015-01-04	1755.4500000000003	9863.6
2015-01-05	2065.95	11929.55
2015-01-06	2428.95	14358.5
2015-01-07	2202.2000000000003	16560.7
2015-01-08	2838.349999999995	19399.05
2015-01-09	2127.3500000000004	21526.4
2015-01-10	2463.95	23990.350000000002

## The top 3 most ordered pizza type based on revenue for each pizza category

```
• SELECT
  pt.category,
  pt.name AS pizza_type_name,
  SUM(od.quantity * p.price) AS total_revenue
FROM
  salesanalysis.`order_details.csv_order_details.csv` od
JOIN
  salesanalysis.`pizzas.csv_pizzas.csv` p ON od.pizza_id = p.pizza_id
JOIN
  salesanalysis.`pizza_types.csv_pizza_types.csv` pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY
  pt.category, pt.name
ORDER BY
  pt.category, total_revenue DESC;
```



Result Grid |  Filter Rows:  Export: 

	category	pizza_type_name	total_revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Chicken	The Southwest Chicken Pizza	34705.75
	Chicken	The Chicken Alfredo Pizza	16900.25

*Thank  
You*