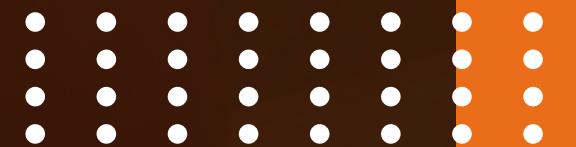


PIZZA HUT SALES SQL ANALYSIS

BUSINESS INSIGHTS USING SQL QUERIES



TOTAL ORDERS PLACED



THIS QUERY COUNTS THE TOTAL NUMBER OF UNIQUE ORDERS IN THE DATASET.

```
1  -- Retrieve the total number of orders placed.  
2 • use pizzahut;  
3 • SELECT  
4      COUNT(order_id) AS total_orders  
5 FROM  
6     orders;
```

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar buttons: Result Grid (selected), Filter Rows, Export, Wrap Cell Content.
- Result Grid table:

	total_orders
▶	66207

TOTAL REVENUE

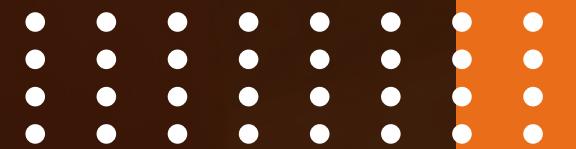


CALCULATES THE TOTAL REVENUE GENERATED FROM ALL PIZZA SALES.

```
1      -- Calculate the total revenue generated from pizza sales.  
2 •  SELECT  
3     ROUND(SUM(order_details.quantity * pizzas.price),  
4           2) AS total_revenue  
5   FROM  
6     order_details  
7     JOIN  
8       pizzas ON pizzas.pizza_id = order_details.pizza_id  
9
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
total_revenue		817860.05		

HIGHEST-PRICED PIZZA



IDENTIFIES THE MOST EXPENSIVE PIZZA ON THE MENU.

```
1  -- Identify the highest-priced pizza.  
2 • SELECT  
3      pizza_types.name, pizzas.price  
4  FROM  
5      pizza_types  
6          JOIN  
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
8  ORDER BY pizzas.price DESC  
9  LIMIT 1;
```

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

	name	price
▶	The Greek Pizza	35.95



MOST COMMON PIZZA SIZE



Finds the most frequently ordered pizza size.

```
1      -- Identify the most common pizza size ordered.  
2 •  SELECT  
3      pizzas.size,  
4      COUNT(order_details.order_details_id) AS order_count  
5  FROM  
6      pizzas  
7      JOIN  
8      order_details ON pizzas.pizza_id = order_details.pizza_id  
9  GROUP BY pizzas.size  
10 ORDER BY order_count DESC;
```

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

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

TOP 5 PIZZA TYPES BY QUANTITY

LISTS THE FIVE MOST ORDERED PIZZA TYPES BASED ON TOTAL QUANTITY SOLD.

```
1  -- List the top 5 most ordered pizza types along with their quantities.  
2 • SELECT  
3      pizza_types.name, SUM(order_details.quantity) AS quantity  
4  FROM  
5      pizza_types  
6          JOIN  
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
8          JOIN  
9      order_details ON order_details.pizza_id = pizzas.pizza_id  
10     GROUP BY pizza_types.name  
11     ORDER BY quantity DESC  
12     LIMIT 5;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	quantity			
▶	The Classic Deluxe Pizza	2453			
	The Barbecue Chicken Pizza	2432			
	The Hawaiian Pizza	2422			
	The Pepperoni Pizza	2418			
	The Thai Chicken Pizza	2371			

TOTAL QUANTITY BY CATEGORY



SUMMARIZES THE TOTAL QUANTITY SOLD FOR EACH PIZZA CATEGORY.

```
1      -- Join the necessary tables to find the total quantity of each pizza category ordered
2 •  SELECT
3      pizza_types.category,
4      SUM(order_details.quantity) AS total_qty
5  FROM
6      pizza_types
7          JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9          JOIN
10     order_details ON order_details.pizza_id = pizzas.pizza_id
11    GROUP BY pizza_types.category
12    ORDER BY total_qty
13
```

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

	category	total_qty
▶	Chicken	11050
	Veggie	11649
	Supreme	11987
	Classic	14888

CATEGORY-WISE PIZZA DISTRIBUTION

SHOWS HOW PIZZA ORDERS ARE DISTRIBUTED ACROSS DIFFERENT CATEGORIES.

```
1  -- Join relevant tables to find the category-wise distribution of pizzas.  
2  • SELECT  
3      pizza_types.category, COUNT(order_details.order_id)  
4  FROM  
5      pizza_types  
6          JOIN  
7      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
8          JOIN  
9      order_details ON pizzas.pizza_id = order_details.pizza_id  
10     GROUP BY category;
```

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

	category	COUNT(order_details.order_id)
▶	Classic	14579
	Veggie	11449
	Supreme	11777
	Chicken	10815

AVERAGE PIZZAS ORDERED PER DAY

CALCULATES THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
1      -- Group the orders by date and calculate the average number of pizzas ordered per day.  
2 •  SELECT  
3      ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day  
4  FROM  
5      (SELECT  
6          orders.date, SUM(order_details.quantity) AS quantity  
7      FROM  
8          orders  
9      JOIN order_details ON orders.order_id = order_details.order_id  
10     GROUP BY orders.date) AS order_quantity;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:		
<table border="1"><thead><tr><th>avg_pizza_ordered_per_day</th></tr></thead><tbody><tr><td>429</td></tr></tbody></table>				avg_pizza_ordered_per_day	429	
avg_pizza_ordered_per_day						
429						

TOP 3 PIZZAS BY REVENUE

DISPLAYS THE THREE PIZZA TYPES THAT GENERATED THE HIGHEST REVENUE.

```
1      -- Determine the top 3 most ordered pizza types based on revenue.
2 •  SELECT
3      pizza_types.name,
4      SUM(order_details.quantity * pizzas.price) AS Revenue
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
9      JOIN
10     order_details ON order_details.pizza_id = pizzas.pizza_id
11    GROUP BY pizza_types.name
12    ORDER BY revenue DESC
13    LIMIT 3;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	name	Revenue			
▶	The Thai Chicken Pizza	43434.25			
	The Barbecue Chicken Pizza	42768			
	The California Chicken Pizza	41409.5			

REVENUE CONTRIBUTION BY CATEGORY

SHOWS WHAT PERCENTAGE OF TOTAL REVENUE EACH CATEGORY CONTRIBUTES.

```
1      -- Calculate the percentage contribution of each pizza type to total revenue.
2 •  SELECT
3      pizza_types.category,
4      ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
5          ROUND(SUM(order_details.quantity * pizzas.price),
6          2) AS total_revenue
7
8      FROM
9          order_details
10         JOIN
11             pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
12         2) AS revenue
13
14     FROM
15         pizza_types
16         JOIN
17             pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
18         JOIN
19             order_details ON order_details.pizza_id = pizzas.pizza_id
20
21     GROUP BY pizza_types.category
22
23     ORDER BY revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

CUMULATIVE REVENUE OVER TIME

ANALYZES HOW REVENUE HAS ACCUMULATED OVER TIME.

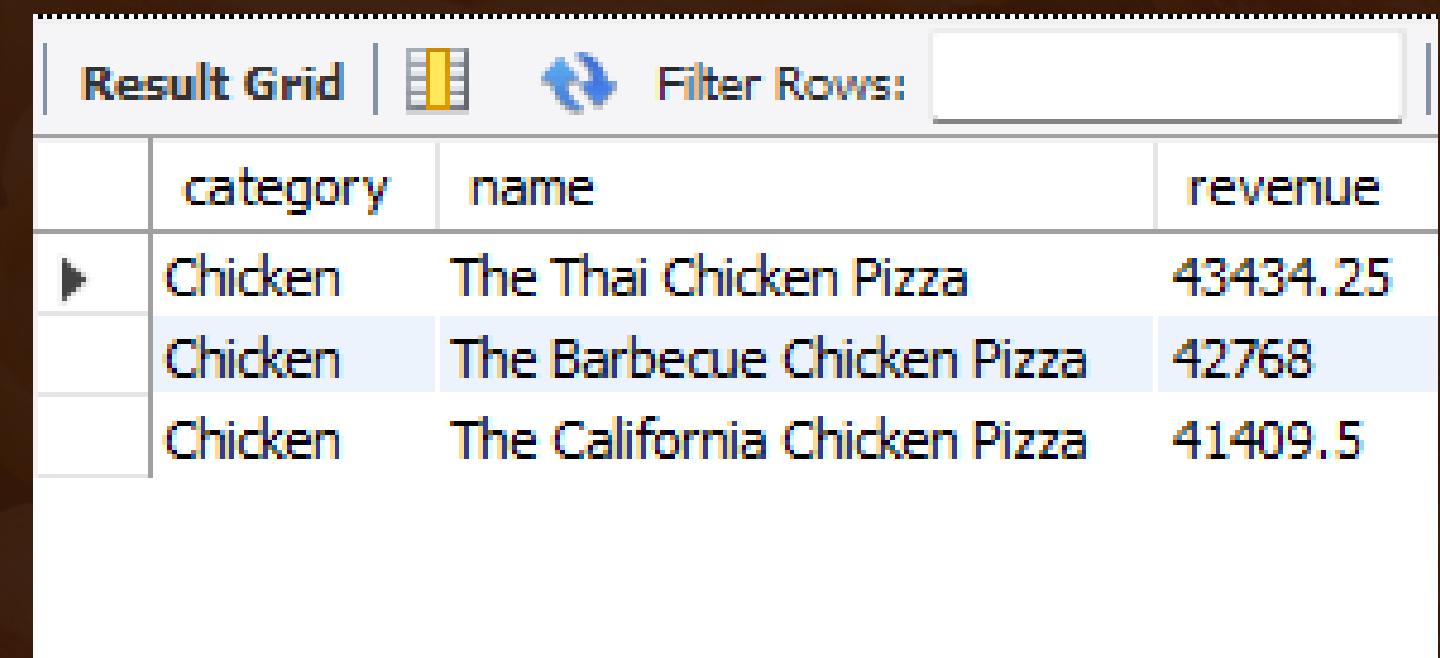
```
1  -- Analyze the cumulative revenue generated over time.  
2 • SELECT  
3      orders.date,  
4      SUM(order_details.quantity * pizzas.price) AS daily_revenue,  
5      SUM(SUM(order_details.quantity * pizzas.price)) OVER (ORDER BY orders.date)  
6      AS cumulative_revenue  
7  FROM  
8      order_details  
9  JOIN  
10     pizzas ON order_details.pizza_id = pizzas.pizza_id  
11  JOIN  
12     orders ON orders.order_id = order_details.order_id  
13  GROUP BY  
14      orders.date  
15  ORDER BY  
16      orders.date;
```

	date	daily_revenue	cumulative_revenue
▶	2015-01-01	8376.55	8376.55
	2015-01-02	8655.199999999999	17031.75
	2015-01-03	1999999999997	25083.699999999997
	2015-01-04	5516.849999999985	30600.549999999996
	2015-01-05	6418.349999999985	37018.899999999994
	2015-01-06	7637.749999999999	44656.649999999994
	2015-01-07	7126.249999999997	51782.899999999994
	2015-01-08	8790.05	60572.95
	2015-01-09	6634.299999999997	67207.25
	2015-01-10	7503.099999999985	74710.35

TOP 3 PIZZAS BY CATEGORY REVENUE

RANKS THE TOP 3 PIZZA TYPES BY REVENUE WITHIN EACH CATEGORY USING WINDOW FUNCTIONS.

```
-- Determine the top 3 most ordered pizza types based on revenue for each pizza category.  
• SELECT  
    category,  
    name,  
    revenue  
  FROM (  
    SELECT  
        pt.category,  
        pt.name,  
        SUM(od.quantity * p.price) AS revenue,  
        RANK() OVER (PARTITION BY pt.category ORDER BY SUM(od.quantity * p.price) DESC) AS rank_within_category  
    FROM  
        pizza_types pt  
    JOIN  
        pizzas p ON pt.pizza_type_id = p.pizza_type_id  
    JOIN  
        order_details od ON od.pizza_id = p.pizza_id  
    GROUP BY  
        pt.category, pt.name  
  ) AS ranked  
  WHERE  
    rank_within_category <= 3  
  ORDER BY  
    category, revenue DESC limit 3;
```



The screenshot shows a database result grid with the following data:

	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5