



Domino's

PIZZA DATA ANALYSIS

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CONTENT



Basic:

- 01 Retrieve the total number of orders placed.
- 02 Calculate the total revenue generated from pizza sales.
- 03 Identify the highest-priced pizza.
- 04 Identify the most common pizza size ordered.
- 05 List the top 5 most ordered pizza types along with their quantities.



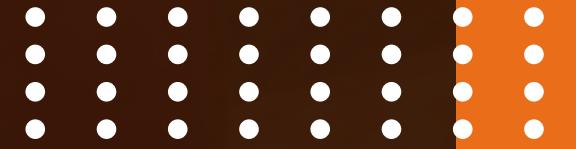
Intermediate:

- 01 Join the necessary tables to find the total quantity of each pizza category ordered.
- 02 Determine the distribution of orders by hour of the day.
- 03 Join relevant tables to find the category-wise distribution of pizzas.
- 04 Group the orders by date and calculate the average number of pizzas ordered per day.
- 05 Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- 01 Calculate the percentage contribution of each pizza type to total revenue.
- 02 Analyze the cumulative revenue generated over time.
- 03 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

BASIC



Retrieve the total number of orders placed.

code

```
select count(*) from orders;
```

Output

| | |
|---|----------|
| | count(*) |
| ▶ | 21350 |





Calculate the total revenue generated from pizza sales.

code

```
SELECT
    ROUND(SUM(pizzas.price * order_details.quantity),
          2)
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id;
```

Output

| |
|--|
| ROUND(SUM(pizzas.price * order_details.quantity), 2) |
| ► 817860.05 |



Identify the highest-priced pizza.

code

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Output

| | name | price |
|---|-----------------|-------|
| ▶ | The Greek Pizza | 35.95 |





Identify the most common pizza size ordered.

code

```
SELECT
    pizzas.size,
    COUNT(order_details.pizza_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;
```

Output

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





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

code

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

Output

| name | quantities |
|----------------------------|------------|
| The Classic Deluxe Pizza | 2453 |
| The Barbecue Chicken Pizza | 2432 |
| The Hawaiian Pizza | 2422 |
| The Pepperoni Pizza | 2418 |
| The Thai Chicken Pizza | 2371 |

INTERMEDIATE



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

code

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

Output

| category | quantity |
|----------|----------|
| Classic | 14888 |
| Supreme | 11987 |
| Veggie | 11649 |
| Chicken | 11050 |



Determine the distribution of orders by hour of the day.

code

```
SELECT  
    EXTRACT(HOUR FROM order_time) AS HOURS,  
    COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY EXTRACT(HOUR FROM order_time);
```

Output

| HOURS | order_count |
|-------|-------------|
| 14 | 1472 |
| 15 | 1468 |
| 16 | 1920 |
| 17 | 2336 |
| 18 | 2399 |
| 19 | 2009 |
| 20 | 1642 |
| 21 | 1198 |



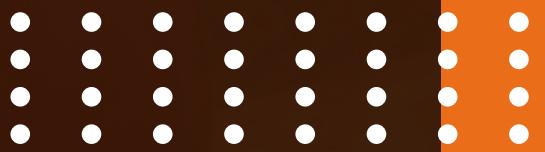
Join relevant tables to find the category-wise distribution of pizzas.

code

```
SELECT  
    category, count(name)  
FROM  
    pizza_types  
GROUP BY category;
```

Output

| category | count(name) |
|----------|-------------|
| Chicken | 6 |
| Classic | 8 |
| Supreme | 9 |
| Veggie | 9 |



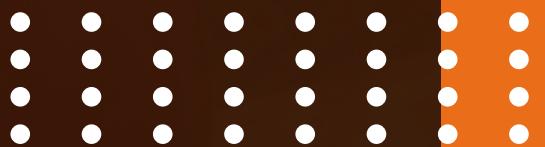
Group the orders by date and calculate the average number of pizzas ordered per day.

code

```
CREATE VIEW view_order AS
    SELECT
        orders.order_date,
        SUM(order_details.quantity) AS sum_quantity
    FROM
        orders
    JOIN
        order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date;
• select round(avg(sum quantity),0) as Average from view order;
```

Output

| | Average |
|---|---------|
| ▶ | 138 |



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

code

```
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) AS revenue
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Output

| name | revenue |
|------------------------------|----------|
| The Thai Chicken Pizza | 43434.25 |
| The Barbecue Chicken Pizza | 42768 |
| The California Chicken Pizza | 41409.5 |

ADVANCED



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

code

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
        2)
    )
    FROM
        pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) AS revenue
FROM
    pizzas
JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Output

| category | revenue |
|----------|---------|
| Classic | 26.91 |
| Supreme | 25.46 |
| Chicken | 23.96 |
| Veggie | 23.68 |



Analyze the cumulative revenue generated over time.

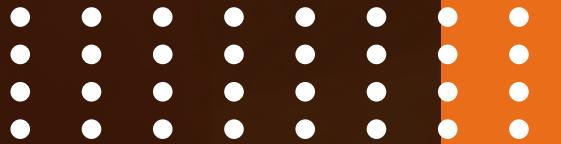
code

```
select sales.order_date, round(sum(revenue)over(order by sales.order_date),2) as cummulative_revenue
from (SELECT
    orders.order_date,
    SUM(pizzas.price *| order_details.quantity) AS revenue
FROM
    order_details
    JOIN
    orders ON order_details.order_id = orders.order_id
    JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
    GROUP BY orders.order_date) as sales;
```

Output

| order_date | cummulative_revenue |
|------------|---------------------|
| 2015-01-01 | 2713.85 |
| 2015-01-02 | 5445.75 |
| 2015-01-03 | 8108.15 |
| 2015-01-04 | 9863.6 |
| 2015-01-05 | 11929.55 |
| 2015-01-06 | 14358.5 |
| 2015-01-07 | 16560.7 |
| 2015-01-08 | 19399.05 |
| 2015-01-09 | 21526.4 |
| 2015-01-10 | 23990.35 |
| 2015-01-11 | 25862.65 |
| 2015-01-12 | 27781.7 |
| 2015-01-13 | 29831.3 |
| 2015-01-14 | 32358.7 |
| 2015-01-15 | 34343.5 |





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

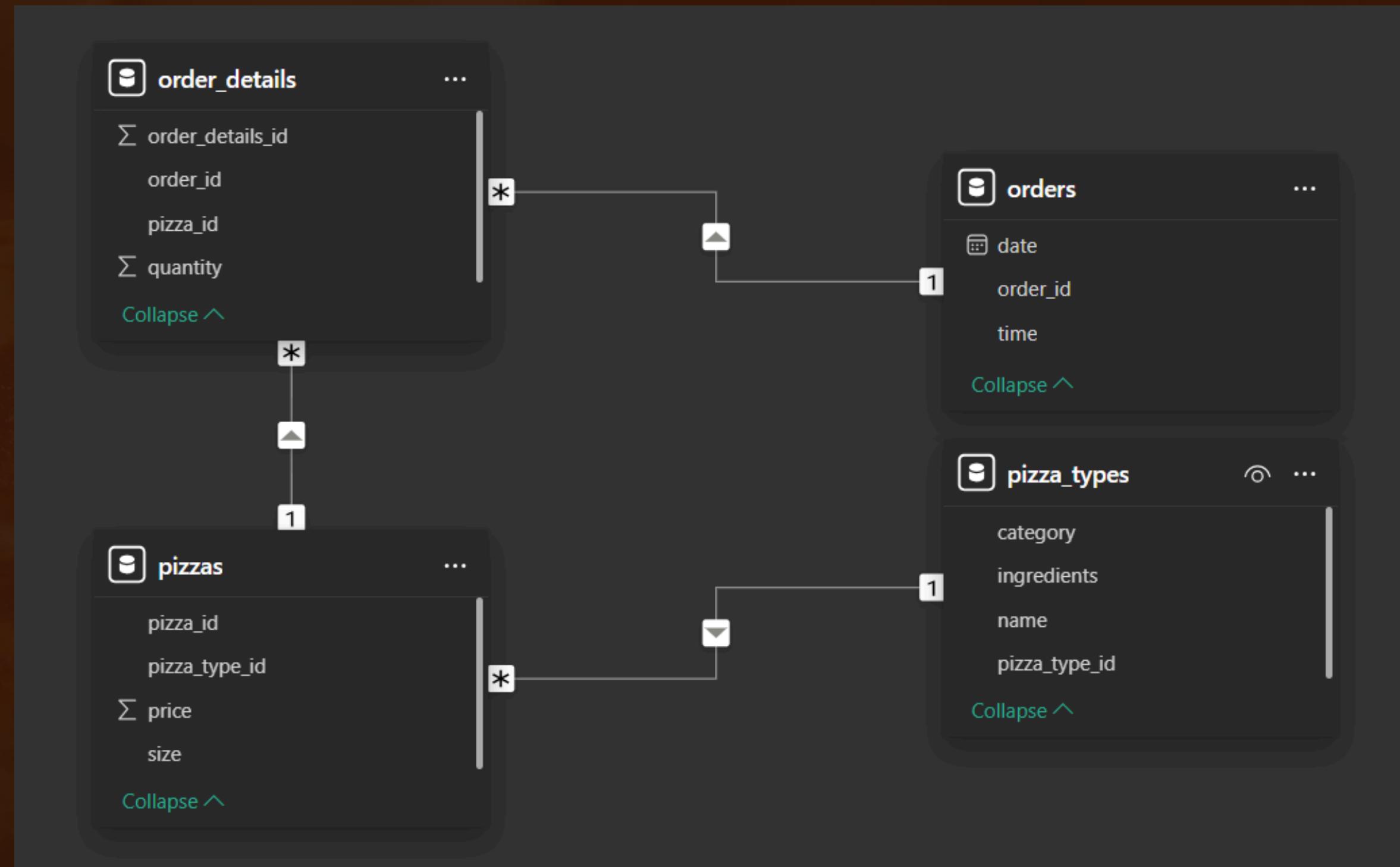
code

```
select name, category, revenue from(select category,name,revenue,rank() over(partition by category order by
pizza_types.category,
pizza_types.name,
SUM(pizzas.price * (order_details.quantity)) AS revenue
FROM
pizzas
JOIN
pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN
order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category , pizza_types.name) as a)as b
where rnk <= 3;
```

Output

| | name | category | revenue |
|---|------------------------------|----------|-------------------|
| ▶ | The Thai Chicken Pizza | Chicken | 43434.25 |
| | The Barbecue Chicken Pizza | Chicken | 42768 |
| | The California Chicken Pizza | Chicken | 41409.5 |
| | The Classic Deluxe Pizza | Classic | 38180.5 |
| | The Hawaiian Pizza | Classic | 32273.25 |
| | The Pepperoni Pizza | Classic | 30161.75 |
| | The Spicy Italian Pizza | Supreme | 34831.25 |
| | The Italian Supreme Pizza | Supreme | 33476.75 |
| | The Sicilian Pizza | Supreme | 30940.5 |
| | The Four Cheese Pizza | Veggie | 32265.70000000065 |
| | The Mexicana Pizza | Veggie | 26780.75 |
| | The Five Cheese Pizza | Veggie | 26066.5 |

ER DIAGRAM



Domino's Pizza Data Analysis

**THANK YOU
FOR ATTENTION**