



01

#### **BASIC ANALYSIS**

- TOTAL NUMBER OF ORDERS
- TOTAL GENERATED REVENUE
- HIGHEST-PRICED PIZZA
- MOST COMMON PIZZA ORDERED SIZE
- TOP 5 MOST ORDERED PIZZA TYPES

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#### **INTERMEDIATE ANALYSIS**

- · Total Quantity of Each Pizza Category Ordered
- · Distribution of Orders by Hour of the Day
- Category-Wise Distribution of Pizzas
- Average Number of Pizzas Ordered Per Day
- Top 3 Most Ordered Pizza Types Based on Revenue

03

#### **ADVANCE ANALYSIS**

- Percentage Contribution of Each Pizza Type to Total Revenue
- · Cumulative Revenue Generated Over Time
- Top 3 Most Ordered Pizza Types Based on Revenue for Each Category





# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

use sql\_pizza\_sales;

-- Retrieve the total number of orders placed.

select count(order\_id) from orders;

count(order\_id)

21350



#### CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
-- Calculate the total revenue generated from pizza sales.

use sql_pizza_sales;

SELECT

ROUND(SUM(t1.quantity * t2.price), 2) AS 'price'

FROM

order_details t1

JOIN

pizzas t2 ON t1.pizza_id = t2.pizza_id
```

price

817860.05



# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
-- Identify the highest-priced pizza.

use sql_pizza_sales;

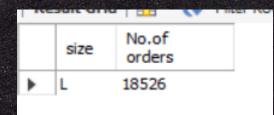
SELECT
    pizza_type_id AS name, MAX(price) AS price
FROM
    pizzas
GROUP BY pizza_type_id
ORDER BY price DESC
LIMIT 1
```

	name	price
-	the_greek	35.95



### IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
use sql_pizza_sales;
SELECT
    t2.size, COUNT(t2.size) AS 'No.of orders'
FROM
    order_details t1
        JOIN
    pizzas t2 ON t1.pizza_id = t2.pizza_id
GROUP BY t2.size
ORDER BY COUNT(t2.size) DESC
LIMIT 1
```





# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

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

```
use sql_pizza_sales;
SELECT
    t2.pizza_type_id, SUM(t1.quantity) AS 'quantity'
FROM
    order_details t1
        JOIN
    pizzas t2 ON t1.pizza_id = t2.pizza_id
GROUP BY t2.pizza_type_id
ORDER BY quantity DESC
LIMIT 5
```

	pizza_type_id	quantity
•	dassic_dlx	2453
	bbq_ckn	2432
	hawaiian	2422
	pepperoni	2418
	thai_ckn	2371



# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

use sql_pizza_sales;

SELECT
    t1.category, SUM(t3.quantity) AS 'no_of_orders'

FROM
    pizza_types t1
        JOIN
    pizzas t2 ON t1.pizza_type_id = t2.pizza_type_id
        JOIN
    order_details t3 ON t3.pizza_id = t2.pizza_id

GROUP BY category

ORDER BY 'no_of_orders' DESC
```

category	no_of_orders
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050
	Classic Veggie Supreme



# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
-- Determine the distribution of orders by hour of the day.
```

```
use sql_pizza_sales;
```

#### **SELECT**

HOUR(order\_time) AS 'hour', COUNT(\*) AS 'no\_of\_orders'

#### FROM

orders

GROUP BY HOUR(order\_time)

ORDER BY no of orders DESC

	hour	no_of_orders
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1



# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

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

use sql\_pizza\_sales;

select category,count(name) from pizza\_types
group by category

	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.

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

use sql_pizza_sales;

SELECT

ROUND(AVG(t.quantity), 0) AS 'avg_pizza_orders'

FROM

(SELECT

t1.order_date, SUM(t2.quantity) AS quantity

FROM

orders t1

JOIN order_details t2 ON t1.order_id = t2.order_id

GROUP BY t1.order_date) t
```

avg\_pizza\_orders

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# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
-- Determine the top 3 most ordered pizza types
-- based on revenue.
use sql pizza sales;
SELECT
   t1.name, SUM(t3.quantity * t2.price) AS 'total revenue'
FROM
    pizza_types t1
        JOIN
    pizzas AS t2 ON t1.pizza_type_id = t2.pizza_type_id
        JOIN
   order_details t3 ON t3.pizza_id = t2.pizza_id
GROUP BY t1.name
ORDER BY total revenue DESC
LIMIT 3
```

1		
	name	total_revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



## CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
-- Calculate the percentage contribution of each pizza category
       -- to total revenue.
       use sql_pizza_sales;
       SELECT
          t3.category,
           (SUM(t1.quantity * t2.price) / (SELECT
                   SUM(ttt.quantity * tt.price)
               FROM
                   order details ttt
                       JOIN
                   pizzas tt ON tt.pizza_id = ttt.pizza_id) * 100) AS 'percentage_revenue'
       FROM
           order_details t1
               JOIN
           pizzas t2 ON t1.pizza_id = t2.pizza_id
           pizza types t3 ON t3.pizza type id = t2.pizza type id
       GROUP BY t3.category
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       ORDER BY percentage_revenue DESC
```

	category	percentage_revenue
•	Classic	26.905960255669903
	Supreme	25.45631126009884
	Chicken	23.955137556847493
	Veggie	23.682590927384783



### ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
-- Analyze the comulative revenue generate over time

use sql_pizza_sales;

select t3.order_date,round(sum(quantity*t1.price),2) as 'total revenue',

round(sum(sum(t.quantity*t1.price)) over(rows between unbounded preceding and current row
),2) as 'comulative revenue'

from order_details t

join pizzas t1

on t.pizza_id=t1.pizza_id

join orders t3

on t3.order_id = t.order_id

group by t3.order_date
```

	order_date	total revenue	comulative	
•	2015-01-01	2713.85	2713.85	
	2015-01-02	2731.9	5445.75	
	2015-01-03	2662.4	8108.15	
	2015-01-04	1755.45	9863.6	
	2015-01-05	2065.95	11929.55	
	2015-01-06	2428.95	14358.5	
	2015-01-07	2202.2	16560.7	
	2015-01-08	2838.35	19399.05	
	2015-01-09	2127.35	21526.4	
	2015-01-10	2463.95	23990.35	
	2015-01-11	1872.3	25862.65	
	2015-01-12	1919.05	27781.7	
	2015-01-13	2049.6	29831.3	
	2015-01-14	2527.4	32358.7	
	2015-01-15	1984.8	34343.5	
	2015-01-16	2594.15	36937.65	
	2015-01-17	2064.1	39001.75	
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