

PIZZAHUT

R E P O R T

2015



A close-up photograph of a hand holding a wooden spoon, stirring a pan of pasta. The pasta is coated in a creamy sauce and topped with cherry tomatoes and pine nuts. The pan sits on a stovetop, and the background shows a kitchen counter with various items like a grater and a bottle.

PIZZAHUT

2 0 1 5

HELLO,

My name is harish kore and i have in this project utilize SQL queries to solve questions related to the pizzahut sales.

SOLVED QUESTIONS

Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

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

Intermediate:

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

Determine the distribution of orders by hour of the day.

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

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

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

Advanced:

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

Analyze the cumulative revenue generated over time.

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

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
4 •   SELECT
5     *
6   FROM
7     orders;
8 •   SELECT
9     concat(round(COUNT(order_ID)/1000,2),"K")AS Ttl_Orders
10  FROM
11    pizzahut.orders;
```

	Ttl_Orders
▶	21.35K

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
7 •   SELECT
8   = concat(ROUND(SUM(order_details.quantity * pizzas.price)/1000,
9                   2),"K") AS Ttl_Revenue
10  FROM
11    order_details
12    INNER JOIN
13      pizzas ON order_details.pizza_id = pizzas.pizza_id;
14
```

	Ttl_Revenue
▶	817.86K

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
6 •   SELECT
7       pizza_types.name, pizzas.price
8   FROM
9       pizza_types
10      JOIN
11       pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
12      ORDER BY price DESC
13      LIMIT 1;
```

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

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
5 •   SELECT
6     pizzas.size,
7     COUNT(order_details.order_details_id) AS Ttl_Count
8   FROM
9     pizzas
10    JOIN
11      order_details ON pizzas.pizza_id = order_details.pizza_id
12    GROUP BY pizzas.size
13    ORDER BY Ttl_Count DESC;
```

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

size	Ttl_Count
L	18526
M	15385
S	14137
XL	544
XXL	28

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

```
14 •   SELECT
15       pizza_types.name, SUM(order_details.Quantity) AS Ttl_orders
16   FROM
17       pizza_types
18       JOIN
19           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_Id
20       JOIN
21           order_Details ON order_Details.pizza_id = pizzas.pizza_id
22   GROUP BY pizza_types.name
23   ORDER BY Ttl_orders DESC
24   LIMIT 5;
```

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

	name	Ttl_orders
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

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

```
3 •   SELECT
4       pizza_types.category,
5       count(order_details.quantity) AS Ttl_Quantity
6   FROM
7       pizza_types
8           JOIN
9       pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
10          JOIN
11      order_details ON pizzas.pizza_id = order_details.pizza_id
12  GROUP BY pizza_types.category;
```

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

	category	Ttl_Quantity
▶	Classic	14579
	Veggie	11449
	Supreme	11777
	Chicken	10815

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
5 •   SELECT
6       HOUR(order_time) AS hours, COUNT(order_id) Count_orders
7   FROM
8       orders
9   GROUP BY hours
10  ORDER BY Count_orders DESC;
```

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

	hours	Count_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.

```
3 •   SELECT
4       category, COUNT(name) AS Ttl_pizzas
5   FROM
6       pizza_types
7 GROUP BY category
8 ORDER BY ttl_Pizzas DESC;
```

Result Grid | Filter Rows: Export:

	category	Ttl_pizzas
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
3 •   SELECT
4           ROUND(AVG(Quantity), 0) AS avg_Qua_per_day
5   FROM
6   (
7       SELECT
8           orders.order_date, SUM(order_details.quantity) AS Quantity
9       FROM
10      orders
11     JOIN order_details ON orders.order_id = order_details.order_id
12     GROUP BY orders.order_date) AS inner_Query;
```

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

	avg_Qua_per_day
▶	138

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

```
3 •   SELECT
4       pizza_types.name,
5   ⌂     ROUND(SUM(order_details.quantity * pizzas.price),
6           2) AS Revenue
7   FROM
8       pizza_types
9       JOIN
10      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
11      JOIN
12      order_details ON order_details.pizza_id = pizzas.pizza_id
13      GROUP BY pizza_types.name
14      ORDER BY Revenue DESC
15      LIMIT 3;
```

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

	name	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.

```
3 •   SELECT
4      pizza_types.category,
5      concat(round(SUM(order_details.quantity * pizzas.price) / (SELECT
6                      SUM(order_details.quantity * pizzas.price) AS Ttl_Sales
7
8                      FROM
9                          order_details
10                         JOIN
11                            pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100,2), "%") AS revenue
12
13     FROM
14         pizza_types
15             JOIN
16               pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
17             JOIN
18               order_details ON pizzas.pizza_id = order_details.pizza_id
19
20     GROUP BY pizza_types.category;
```

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

	category	revenue
▶	Classic	26.91%
	Veggie	23.68%
	Supreme	25.46%
	Chicken	23.96%

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
17 •   select order_date,  
18       sum(total_revenue) over(order by order_date) as Cum_revenue  
19   from  
20   (select orders.order_date,  
21       sum(order_details.quantity * pizzas.price) as Total_revenue  
22   from orders join order_details  
23   on orders.order_id = order_details.order_id  
24   join pizzas  
25   on order_details.pizza_id = pizzas.pizza_id  
26   group by orders.order_date) as Day_Revenue;
```

Result Grid		
	order_date	Cum_revenue
▶	2015-01-01	2713.8500000000004
	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

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
33 •  select Category, name, Revenue
34    from
35  (select category, name, Revenue,
36   rank() over(partition by category order by revenue desc) as RN
37   from
38  (SELECT
39    pizza_types.category,
40    pizza_types.name,
41    SUM(order_details.quantity * pizzas.price) AS Revenue
42  FROM
43    pizza_types
44    JOIN
45    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
46    JOIN
47    order_details ON pizzas.pizza_id = order_details.pizza_id
48  GROUP BY pizza_types.category , pizza_types.name) as CTE) as Cte2
49  where RN <= 3;
```

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

KEY POINTS

- The total number of orders placed in 2015 is 21.35K.
- The total revenue generated from pizza sales in year 2015 is 817.86K
- The greek pizza is the highest priced pizza(35.95).
- The top 3 most common pizza size ordered by Customers is L,M,S.
- The average number of pizzas ordered per day is 138.



PIZZAHUT

THANK YOU!

