# PIZZA SALES ANALYSIS



CREATED BY DILIP KUMAR

Q1. Retrieve the total number of orders placed.

```
-- SQL Basic Question --
      -- 1) Retrieve the total number of orders placed.
  4
  5 * select count(order_id) as total_orders from orders;
Export: Wrap Cell Content: IA
 total orders
 21350
```

#### Q2. Calculate the total revenue generated from pizza sales.

```
SELECT
           ROUND(SUM(pizza_world.order_details.quantity * pizza_world.pizzas.price),2) AS total_sales
       FROM
           order details
  8
               JOIN
           pizzas ON pizzas.pizza_id = order_details.pizza_id;
 10
Export: Wrap Cell Content: IA
  total sales
 817860.05
```

#### Q3. Identify the highest-priced pizza.

```
3
       SELECT
           pizza_types.name, pizzas.price
       FROM
  6
           pizza types
               JOIN
  8
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  9
       ORDER BY pizzas.price DESC
 10
 11
       LIMIT 1;
Export: Wrap Cell Content: IA Fetch rows:
                  price
  name
  The Greek Pizza 35.95
```

#### Q4. Identify the most common pizza size ordered.

```
SELECT
           pizzas.size,
           COUNT(order details.order details id) AS order count
  6
       FROM
  8
           pizzas
               JOIN
  9
           order details ON pizzas.pizza id = order details.pizza id
 10
       GROUP BY pizzas.size
 11
       ORDER BY order count DESC;
 12
Export: Wrap Cell Content: TA
  size order count
       18526
      15385
  M
      14137
 XL
      544
  XXL
      28
```

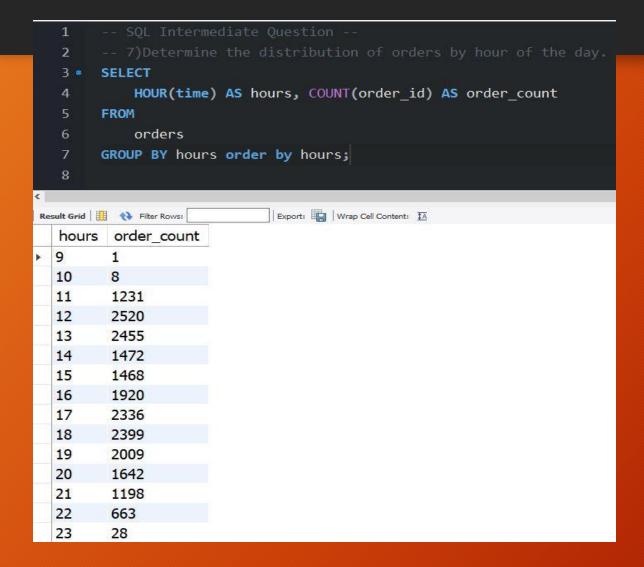
#### Q5. List the top 5 most ordered pizza types along with their quantities.

```
3 .
       SELECT
           pizza types.name, SUM(order details.quantity) AS quantity
       FROM
           pizza types
  6
                JOIN
           pizzas ON pizza types.pizza type id = pizzas.pizza type id
  8
                JOIN
           order details ON order details.pizza id = pizzas.pizza id
 10
       GROUP BY pizza types.name
 11
       ORDER BY quantity DESC
 12
 13
       LIMIT 5;
                                                           -
Export: Wrap Cell Content: 🖽 Fetch rows:
                            quantity
  name
  The Classic Deluxe Pizza
                            2453
  The Barbecue Chicken Pizza
                           2432
  The Hawaiian Pizza
                            2422
  The Pepperoni Pizza
                            2418
  The Thai Chicken Pizza
                            2371
```

Q6. Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
           pizza types.category,
           SUM(order details.quantity) AS quantity
  6
       FROM
           pizza types
               JOIN
  8
           pizzas ON pizza types.pizza type id = pizzas.pizza type id
               JOIN
 10
           order details ON order details.pizza id = pizzas.pizza id
 11
 12
       GROUP BY pizza types.category
       ORDER BY quantity DESC;
 13
Export: Wrap Cell Content: IA
  category
           quantity
 Classic
           14888
 Supreme
           11987
           11649
  Veggie
  Chicken
           11050
```

#### Q7. Determine the distribution of orders by hour of the day.



Q8. Join relevant tables to find the category-wise distribution of pizzas.

```
SELECT
             category, COUNT(name) AS pizza category count
   5
        FROM
   6
             pizza types
        GROUP BY category;
Result Grid | Filter Rows:
                                  Export: Wrap Cell Content: $\overline{A}$
  category
              pizza_category_count
  Chicken
  Classic
  Supreme
  Veggie
```

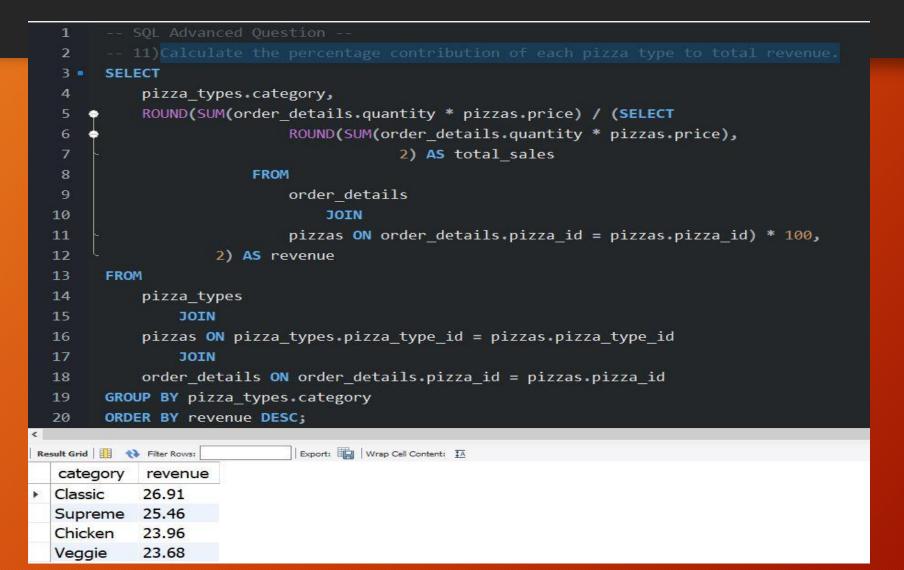
Q9. Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
            ROUND(AVG(quantity), 0) AS avg_order_pizza_per_day
   5
        FROM
            (SELECT
  6
                orders.date AS date, SUM(order details.quantity) AS quantity
            FROM
  8
                orders
  9
            JOIN order_details ON orders.order_id = order_details.order id
 10
 11
            GROUP BY date) AS order qt;
Result Grid  Filter Rows:
                               Export: Wrap Cell Content: IA
  avg_order_pizza_per_day
 138
```

#### Q10. Determine the top 3 most ordered pizza types based on revenue.

```
SELECT
           pizza types.name,
           ROUND(SUM(order details.quantity * pizzas.price),2) AS revenue
  6
       FROM
           pizza types
  7
                JOIN
  8
           pizzas ON pizza types.pizza type id = pizzas.pizza type id
                JOIN
 10
           order details ON order details.pizza id = pizzas.pizza id
 11
 12
       GROUP BY pizza types.name
       ORDER BY revenue DESC
 13
 14
       LIMIT 3;
                             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
```

#### Q11. Calculate the percentage contribution of each pizza type to total revenue.



#### Q12. Analyze the cumulative revenue generated over the time.

```
select dates , round(sum(revenue) over(order by dates),2) as cum revenue from
     • (select orders.date as dates, sum(order details.quantity * pizzas.price) as revenue from order details join orders
      on order details.order id = orders.order id join pizzas on pizzas.pizza id = order details.pizza id
       group by orders.date ) as sales;
                            Export: Wrap Cell Content: IA
dates
             cum 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
```

## Q13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

The Sicilian Pizza

The Four Cheese Pizza

The Five Cheese Pizza

The Mexicana Pizza

Supreme

Veggie

Veggie

Veggie

30940.5

26066.5

32265.7 1

26780.75 2

```
select pizza category, pizza name, revenue, ra nk
       from
    • (select pizza category, pizza name, revenue, rank()
        over(partition by pizza category order by revenue desc) as ra nk
        from
    ♦ (select pizza types.category as pizza category, pizza types.name as pizza name, round(sum(order details.quantity * pizzas.price),2) as revenue from
      pizza types join pizzas on pizza types.pizza type id = pizzas.pizza type id join order details on order details.pizza id = pizzas.pizza id
      group by pizza types.category, pizza types.name order by pizza types.category ) as sales) as another sales where ra nk <= 3;
Export: Wrap Cell Content: IA
                                                   ra_nk
 pizza category pizza name
                                         revenue
 Chicken
               The Thai Chicken Pizza
                                         43434.25 1
 Chicken
               The Barbecue Chicken Pizza 42768
 Chicken
               The California Chicken Pizza 41409.5
 Classic
               The Classic Deluxe Pizza
                                         38180.5
                                         32273.25 2
 Classic
               The Hawaiian Pizza
 Classic
               The Pepperoni Pizza
                                         30161.75 3
               The Spicy Italian Pizza
                                         34831.25 1
 Supreme
               The Italian Supreme Pizza
                                         33476.75 2
 Supreme
```

### THANK YOU FOR WATCHING

