Feb Jan Papperoni Pizza PIZZA SALES March SQL ANALYSIS **Cheese Pizza** Solutions to Common Business Queries Margherita pizza **PRESENTED BY SNEHA CHOUDHRY** 5 10 15

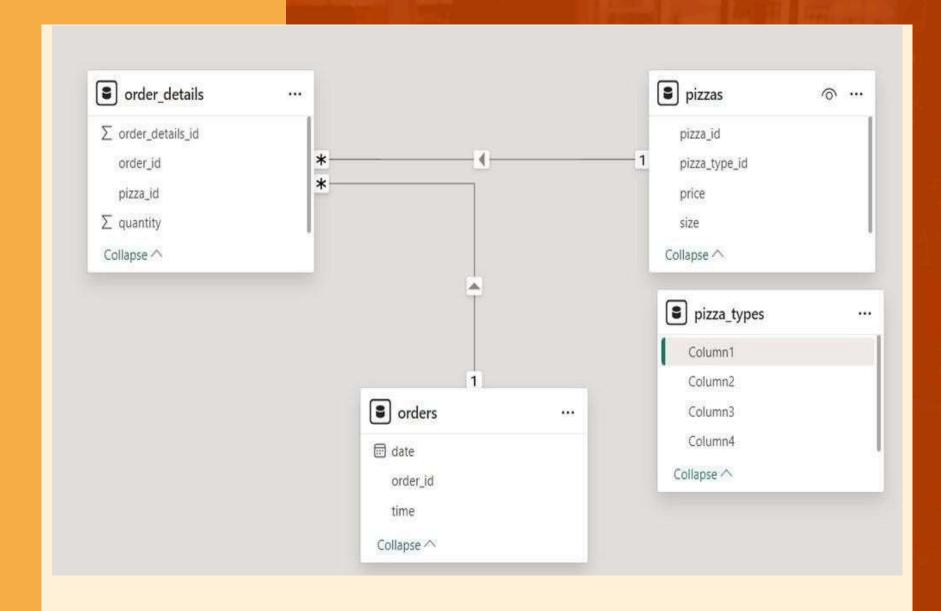
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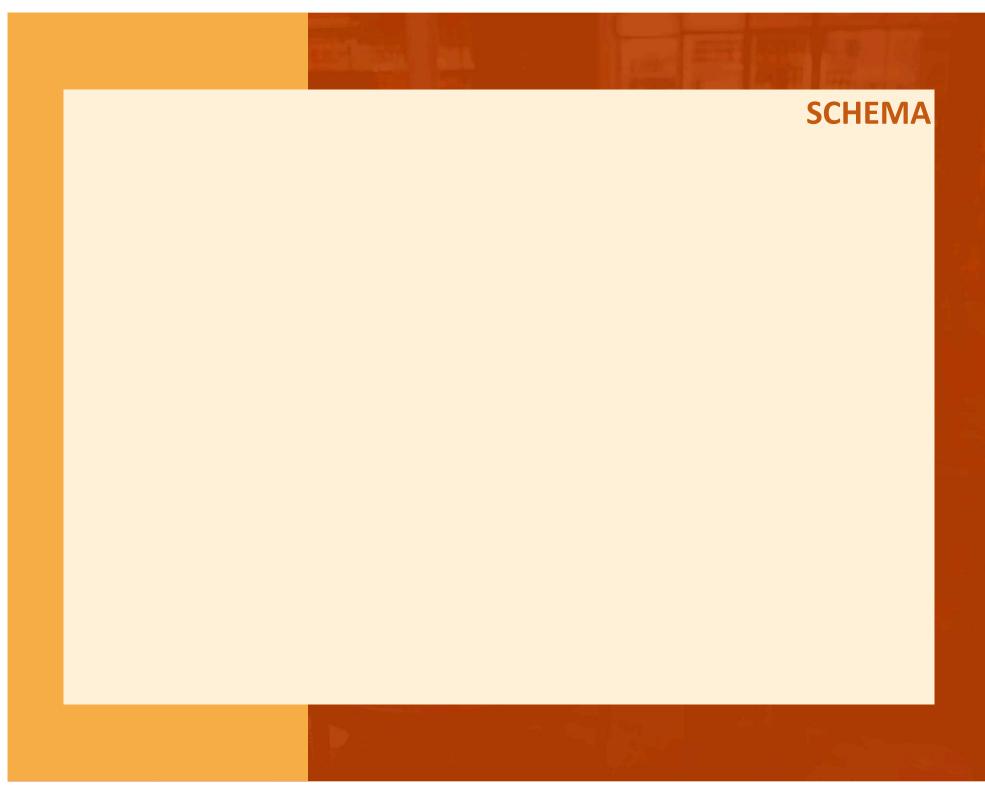
INTRODUCTION

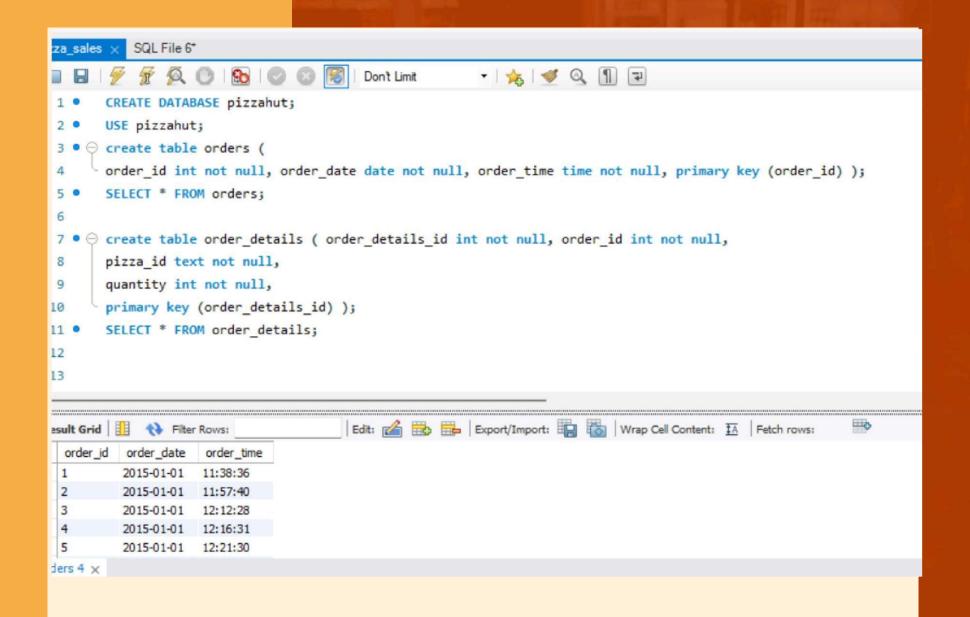
Analysis of pizza sales data using SQL.

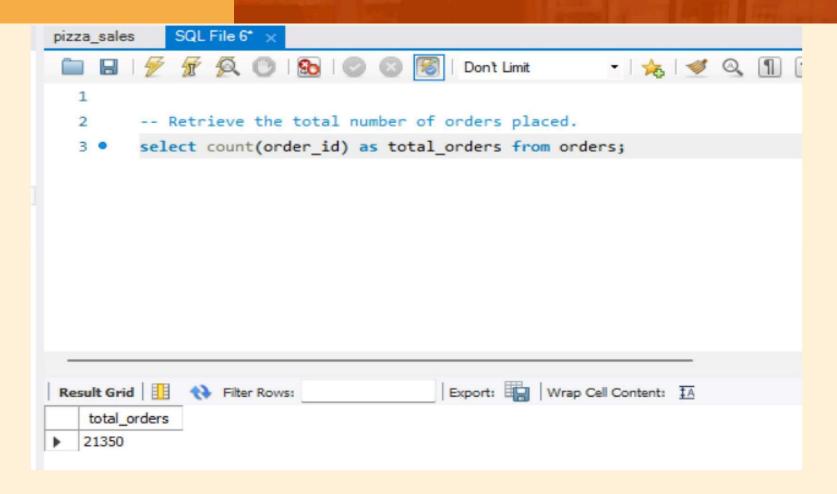
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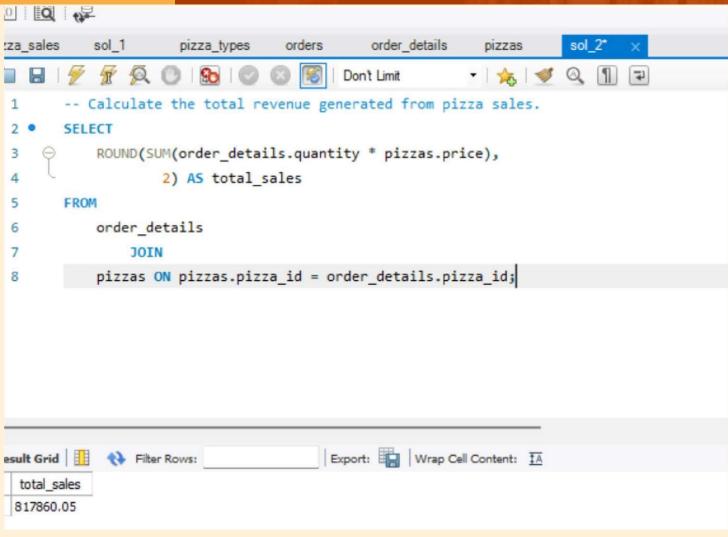
 Addressing various business-related questions to derive meaningful insights.











QUERY 2:

```
-- Identify the highest-priced pizza.
 1
 2 •
       SELECT
           pizza_types.name, pizzas.price
       FROM
  4
           pizza_types
               JOIN
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  7
       ORDER BY pizzas.price DESC
  8
       LIMIT 1;
  9
                                      Export: Wrap Cell Content: IA
name
               price
 The Greek Pizza
              35.95
```

QUERY 3:

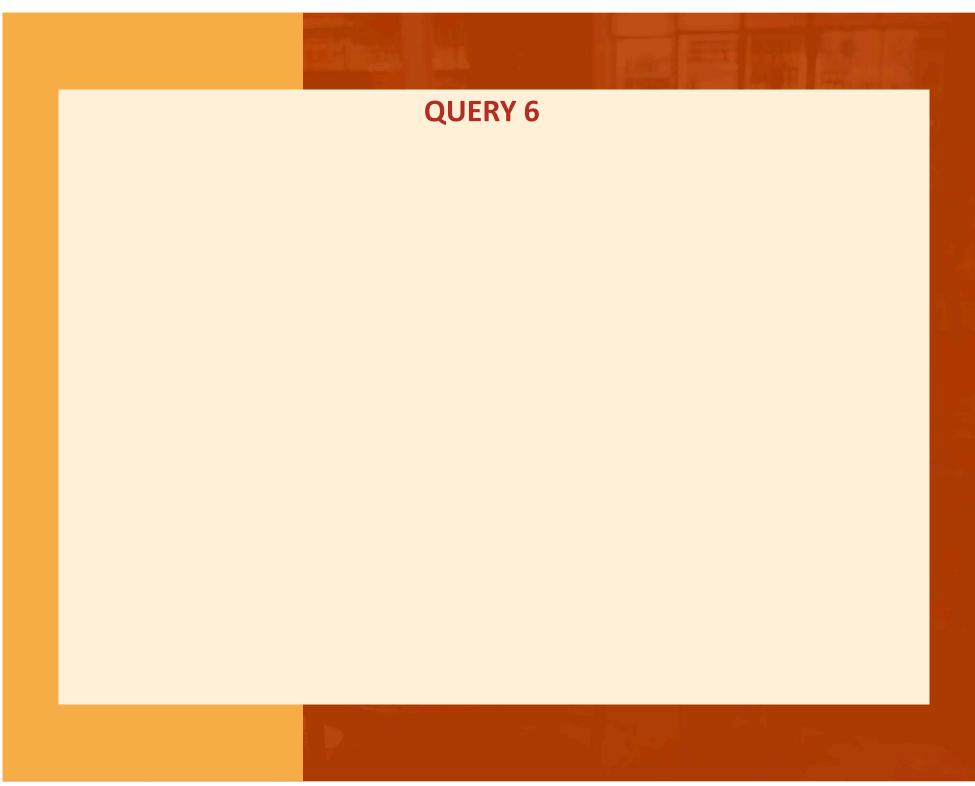
```
-- Identify the most common pizza size ordered.
 2 .
       SELECT
           pizzas.size,
 3
           COUNT(order_details.order_details_id) AS order_count
 5
       FROM
           pizzas
               JOIN
           order_details ON pizzas.pizza_id = order_details.pizza_id
 8
       GROUP BY pizzas.size
 9
        ORDER BY order_count DESC;
10
Export: Wrap Cell Content: IA
          order_count
  size
          18526
          15385
          14137
          544
  XXL
          28
```

QUERY 4:

```
2
         -- List the top 5 most ordered pizza types along with their quantities.
   3
   4 .
         SELECT
              pizza_types.name, SUM(order_details.quantity) AS quantity
  5
         FROM
   6
  7
             pizza_types
  8
                  JOIN
             pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
  9
 10
                  JOIN
             order_details ON order_details.pizza_id = pizzas.pizza_id
 11
         GROUP BY pizza types.name
 12
         ORDER BY quantity DESC
 13
         LIMIT 5;
 14
Result Grid Filter Rows:
                                            Export: Wrap Cell Content: TA
   name
                          quantity
   The Classic Deluxe Pizza
                          2453
   The Barbecue Chicken Pizza
                          2432
                          2422
   The Hawaiian Pizza
   The Pepperoni Pizza
                          2418
   The Thai Chicken Pizza
                          2371
Result 1 ×
```

QUERY 5:

```
-- join the necessary tables to to find the total quantity of each pizza category ordered.
  1
  2
  3 •
        SELECT
             pizza_types.category,
            SUM(order_details.quantity) AS quantity
  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
        GROUP BY pizza_types.category
 12
        ORDER BY quantity DESC;
 13
                                         Export: Wrap Cell Content: IA
Result Grid Filter Rows:
   category quantity
  Classic
           14888
           11987
  Supreme
           11649
  Veggie
           11050
  Chicken
```



```
1
        -- Determine the distribution of orders by hour of the day.
  2
        SELECT
  3 •
            HOUR(order_time), COUNT(order_id)
        FROM
  5
            orders
  6
  7
        GROUP BY HOUR(order_time);
Export: Wrap Cell Content: IA
   hour(order_time) count(order_id)
  11
                1231
   12
                2520
   13
                2455
                1472
  14
  15
                1468
Result 1 ×
```

```
1
        -- Join relevant tables to find the category-wise distribution of pizzas.
       SELECT
           category, COUNT(name)
  4
  5
       FROM
  6
           pizza_types
       GROUP BY category
                                      Export: Wrap Cell Content: IA
category COUNT(name)
 Chicken
  Classic
          8
  Supreme
  Veggie
```

```
-- Group the orders by date and calculate the average
  2
        -- number of pizzas ordered per day.
  3
        SELECT
  4 .
  5
            AVG(quantity)
        FROM
  6
  7
            (SELECT
                orders.order_date, SUM(order_details.quantity) AS quantity
  8
  9
            FROM
                orders
 10
            JOIN order details ON orders.order id = order details.order id
 11
 12
            GROUP BY orders.order_date) AS order_quantity;
Result Grid  Filter Rows:
                                         Export: Wrap Cell Content: TA
   avg(quantity)
  138,4749
```

```
-- Determine the top 3 most ordered pizza types based on revenue.
  2
        SELECT
            pizza types.name,
            SUM(order_details.quantity * pizzas.price) AS revenue
  5
  6
        FROM
  7
            pizza types
                 JOIN
  8
            pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
                 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;
14
                                          Export: Wrap Cell Content: IA
Result Grid  Filter Rows:
   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.
  2
        select pizza_types.category,
      oround(sum(order_details.quantity*pizzas.price) / (SELECT ROUND(SUM(order_details.quantity* pizzas.price),
        AS total sales
  5
  6
        FROM
        order details
  7
  8
        JOIN
  9
        pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) as revenue from pizza_types join pizzas
        on pizza_types.pizza_type_id = pizzas.pizza_type_id
 10
        join order_details
 11
        on order details.pizza id = pizzas.pizza id
 12
        group by pizza_types.category order by revenue desc;
 13
Result Grid Filter Rows:
                                        Export: Wrap Cell Content: TA
   category revenue
  Classic
           26.91
  Supreme 25.46
  Chicken
           23.96
           23.68
  Veggie
```

```
-- analyze the cumulative revenue generated over time.
 1
  2 .
       select order_date,
        sum(revenue) over (order by order_date) as cum_revenue
        from
     (select orders.order_date,
        sum(order_details.quantity* pizzas.price) as revenue from order_details join pizzas
  6
        on order_details.pizza_id = pizzas.pizza_id join orders
 7
        on orders.order_id = order_details.order_id group by orders.order_date) as sales;
  8
                                       Export: Wrap Cell Content: 1A
order_date
            cum_revenue
  2015-01-01 2713.85000000000004
  2015-01-02 5445.75
  2015-01-03 8108.15
  2015-01-04 9863.6
  2015-01-05 11929.55
```

```
-- Determine the top 3 most ordered pizza types
  1
         -- based on revenue for each pizza category.
         select name, revenue from

⊖ (select category, name, revenue,
         rank() over(partition by category order by revenue desc) as rn from
  5
      (select pizza_types.category, pizza_types.name,
  6
         sum((order details.quantity) * pizzas.price) as revenue from pizza types join pizzas
  7
         on pizza types.pizza type id = pizzas.pizza type id join order details
  8
         on order_details.pizza_id = pizzas.pizza_id
  9
         group by pizza types.category, pizza types.name) as a) as b
 10
         where rn <= 3;
 11
Result Grid Filter Rows:
                                            Export: Wrap Cell Content: TA
   name
                          revenue
  The Thai Chicken Pizza
                          43434.25
  The Barbecue Chicken Pizza
                         42768
  The California Chicken Pizza
                         41409.5
  The Classic Deluxe Pizza
                         38180.5
  The Hawaiian Pizza
                         32273.25
  The Pepperoni Pizza
                         30161.75
  The Spicy Italian Pizza
                          34831.25
  The Italian Supreme Pizza
                          33476.75
```

QUERY 13

THANKYOU!!