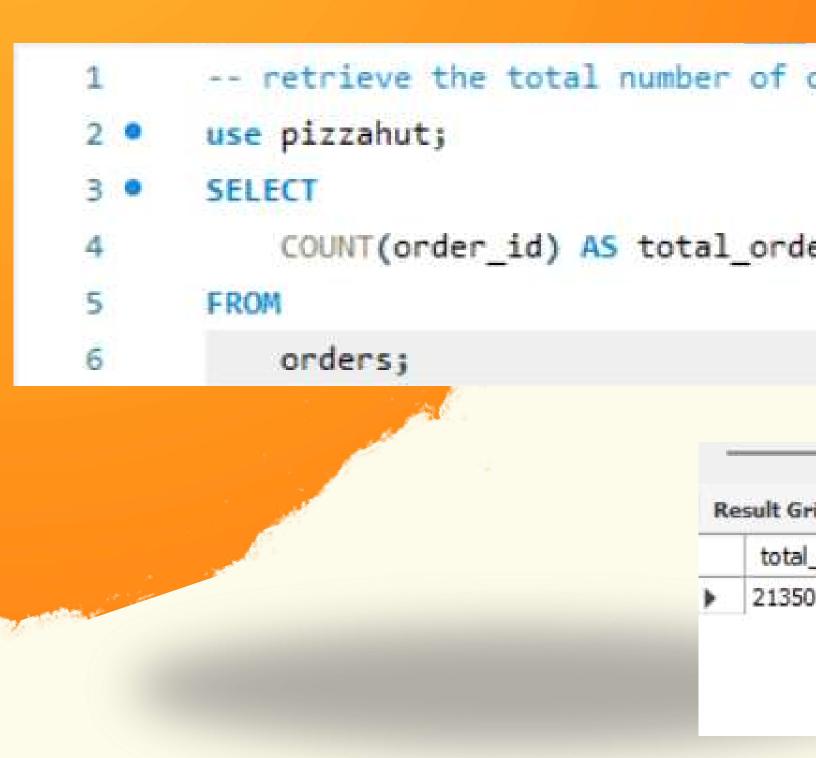
PIZZA_SALES_ANALYSIS

Objective: The objective of this project is to a data from a pizza_hut restaurant chain to gain customer preferences, sales trends, popular me hours, and other relevant metrics.

DATA SOURCES:

- <u>1.Orders Table:</u> The ordes table contains orders_id, Double time of order placed
- **2.Orders_details Table:** The table contain details of four column having order_details_id,order_id, Pizza_id
- 3.Pizza_types Table: the table contains varieties in page specifies the type and categories of pizza. The coloum
- pizza_type_id,name, categories and pizza_id.
- **4.pizzas Table:** The table contains the coloumn pizza and size.

1.Retrieve the total number of ord



2. Calculate the total regenerated from pizza

```
-- Calculate the total revenue generated from p

SELECT

SUM(p.price * o.quantity) AS total_revenue

FROM

pizzas p

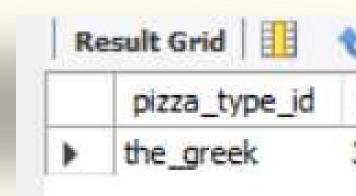
INNER JOIN

order_details o ON p.pizza_id = o.pizza_id;
```



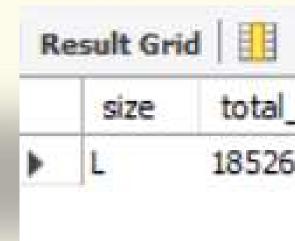
3. Identify the highest-price

```
-- Identify the highest-priced pizza.
 1
 2
       SELECT
 4
            pizza_type_id,price
 5
       FROM
            pizzas
 7
       WHERE
 8
            price = (SELECT
 9
                    MAX(price)
10
                FROM
                     pizzas)
11
```



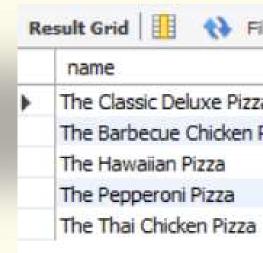
4.Identify the most commo size ordered.

```
-- Identify the most common pizza size ordered.
 1
      Save the script to a file.
 2
3
       SELECT
            p.size, COUNT(o.quantity) AS total orders
 5
       FROM
 6
            pizzas p
                INNER JOIN
 8
            order_details o ON p.pizza_id = o.pizza_id
9
       GROUP BY p.size
10
       ORDER BY total orders DESC
11
12
        LIMIT 1
```



5.List the top 5 most order types along with their qua

```
-- List the top 5 most ordered pizza types along with their quant
       select * from order details;
       select * from pizza types;
       select * from pizzas;
       SELECT
6
           pizza types.name,
           SUM(order_details.quantity) AS total_quantity
8
       FROM
9
           pizza_types
10
               JOIN
           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 total quantity DESC
15
16
       LIMIT 5
```



6.Join the necessary tables to find quantity of each pizza category o

```
pl.category, COUNT(o.quantity) AS total

from

pizzas p

INNER JOIN

order_details o ON o.pizza_id = p.pizza_id

JOIN

pizza_types p1 ON p.pizza_type_id = p1.pizza_type_id

GROUP BY p1.category
```

	R	esult Grid	TE .
		category	tot
	*	Classic	145
Contraction of the Contraction o		Veggie	114
		Supreme	117
		Chicken	108

7.Determine the distribution by hour of the day.

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

SELECT

HOUR(o2.time) AS time, COUNT(o2.order_id) AS total_

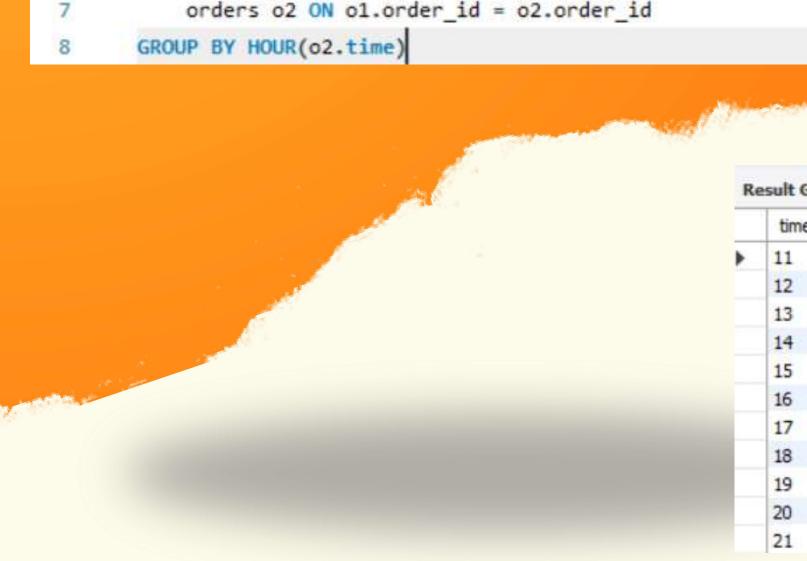
FROM

order_details o1

INNER JOIN

orders o2 ON o1.order_id = o2.order_id

GROUP BY HOUR(o2.time)
```



8.Join relevant tables to find the wise distribution of pizza

```
-- Join relevant tables to find the category-wise district
SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category
```



9.Group the orders by date and calcaverage number of pizzas ordered

```
-- Group the orders by date and calculate the average number of p

SELECT

ROUND(AVG(quantity))

FROM

(SELECT

ol.date, COUNT(o2.quantity) AS quantity

FROM

orders o1

INNER JOIN order_details o2 ON o1.order_id = o2.order_id

GROUP BY o1.date) AS order_quantity
```



10.Determine the top 3 mos pizza types based on rev

```
-- Determine the top 3 most ordered pizza types based on revenue.
1
      select pl.name, round(sum((p.price * o.quantity))) as revenue from pizzas p inner j
      on o.pizza_id=p.pizza_id join pizza_types p1
      on p.pizza type id=p1.pizza type id
      group by pl.name
      order by revenue desc
      limit 3
                                          Result Grid
                                                                               reven
                                              name
                                             The Thai Chicken Pizza
                                                                              43434
                                              The Barbecue Chicken Pizza
                                                                              42768
                                              The California Chicken Pizza
                                                                              41410
```

11.Calculate the percentage contri each pizza type to total rever

```
-- Calculate the percentage contribution of each pizza type to total r
       SELECT
 3
           pl.category,
           ROUND(SUM(p.price * o.quantity * 100) / (SELECT
 5
                            SUM(p.price * o.quantity) AS total revenue
 6
                        FROM
 7
                            pizzas p
                                INNER JOIN
8
                            order_details o ON p.pizza_id = o.pizza_id)) AS pe
 9
10
       FROM
           pizzas p
11
12
                INNER JOIN
           order_details o ON o.pizza_id = p.pizza_id
13
                JOIN
14
           pizza_types p1 ON p.pizza_type_id = p1.pizza_type_id
15
       GROUP BY pl.category
16
17
```

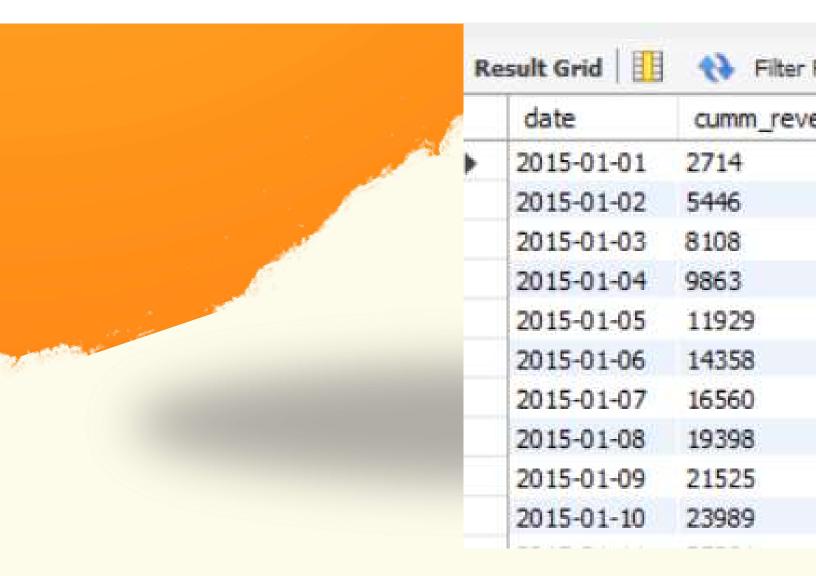


12.Analyze the cumulative generated over time

```
select date, sum(revenue) over(order by date) as cumm_revenue from

(select o2.date,round(sum((o1.quantity*p.price))) as revenue from order_details of o1.order_id=o2.order_id join pizzas p on
o1.pizza_id=p.pizza_id

group by o2.date) as sales
```



13.Determine the top 3 most orde types based on revenue for each pizz

```
-- Determine the top 3 most ordered pizza types based on revenue f
1
       select name, revenue from
    ⊖ (select name, category, revenue, rank()
       over(partition by category order by revenue desc) as rn from
    (select pl.name, pl.category,
       round(sum((p.price * o.quantity))) as revenue
        from pizzas p inner join order details o
       on o.pizza_id=p.pizza_id join pizza_types p1
8
       on p.pizza type id=p1.pizza type id
9
       group by pl.name, pl.category) as total) as ranking
10
11
       where rn<4;
12
```

