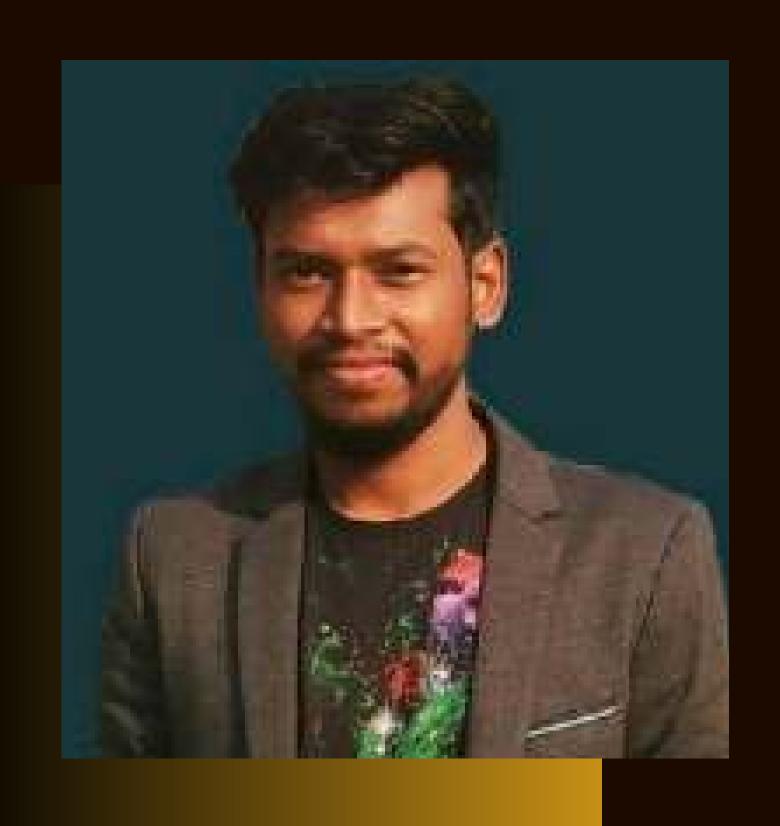
#### PIZZAHUB s a l e s a n a l y s i s

KAMIL TIRKEY





#### ABOUTME

#### I'm Kamil Tirkey,

Empowering clients with financial security and growth through insurance, investments, and strategic planning.

Tableau, SQL, and Alteryx Certified professional specializing in creating insightful Business Intelligence dashboards and reports. Passionate about continuous learning and adopting new technologies to enhance performance and deliver organizational value.



#### SQL PROJECT OVERVIEW: PIZZAHUB SALES ANALYSIS

#### **OBJECTIVE**:

ANALYZE SALES DATA FOR PIZZAHUB TO UNDERSTAND PIZZA SALES PERFORMANCE, TOP-SELLING PIZZAS, REVENUE, CATEGORIES, AND AVERAGE ORDER METRICS.

#### **TABLES:**

ORDERS: CONTAINS ORDER DETAILS (ID, CUSTOMER INFO, DATE/TIME).

ORDER\_DETAILS: INCLUDES DETAILED ITEM INFO (QUANTITY, PIZZA ID) FOR EACH ORDER.

PIZZAS: HOLDS DATA ON AVAILABLE PIZZAS (ID, NAME, PRICE, CATEGORY ID, TYPE ID).

PIZZA\_TYPES: PROVIDES PIZZA STYLE INFO, LINKING TO PIZZAS VIA TYPE ID.

#### **KEY ANALYSIS POINTS:**

PIZZA SALES AND REVENUE: IDENTIFY TOP-SELLING PIZZAS AND CALCULATE TOTAL REVENUE.

PIZZA CATEGORIES: ANALYZE SALES PERFORMANCE BY CATEGORY (E.G., VEGETARIAN, MEAT LOVERS).

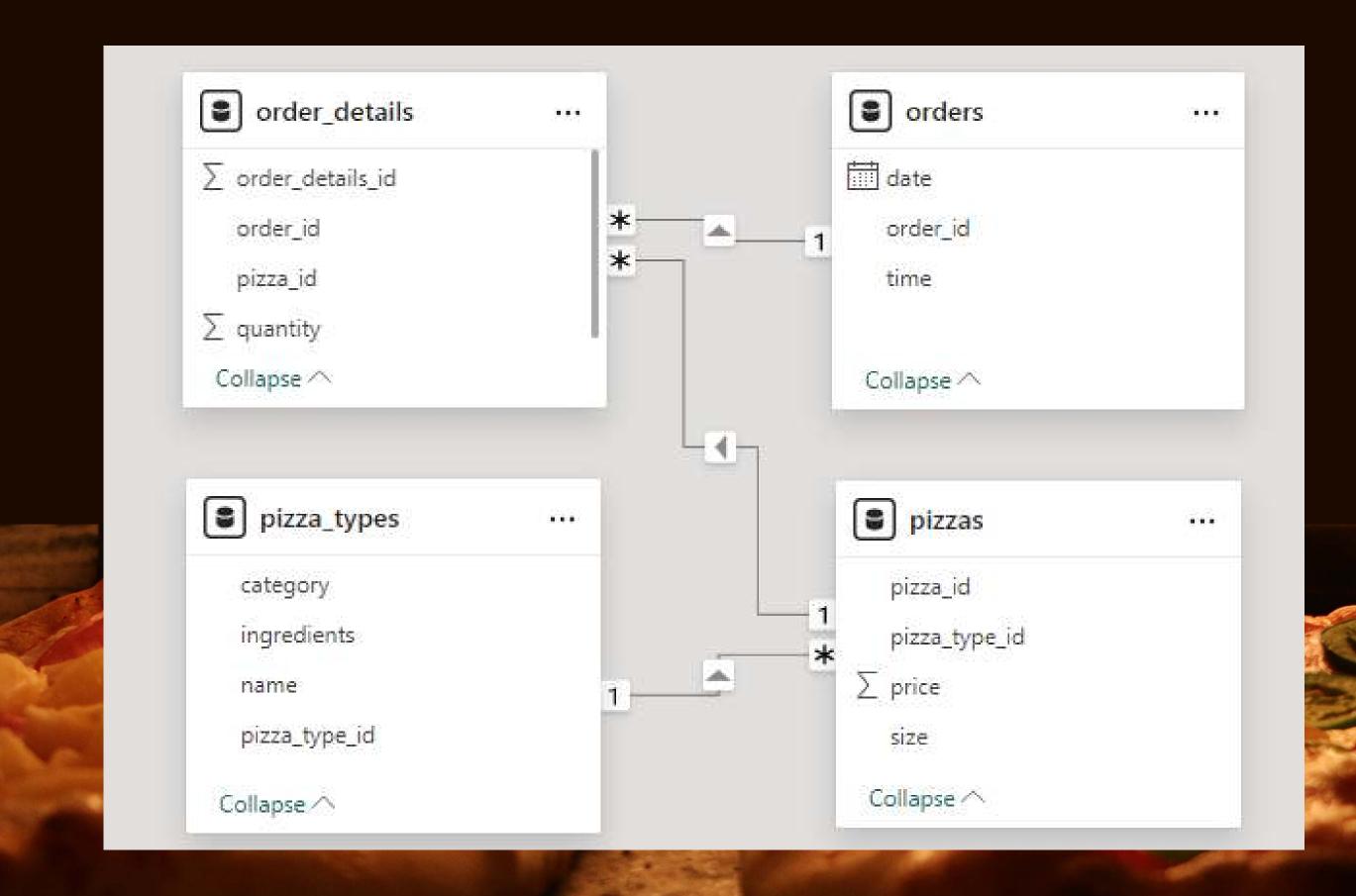
AVERAGE ORDER METRICS: DETERMINE AVERAGE PIZZAS ORDERED PER DAY FOR CUSTOMER BEHAVIOR INSIGHTS.



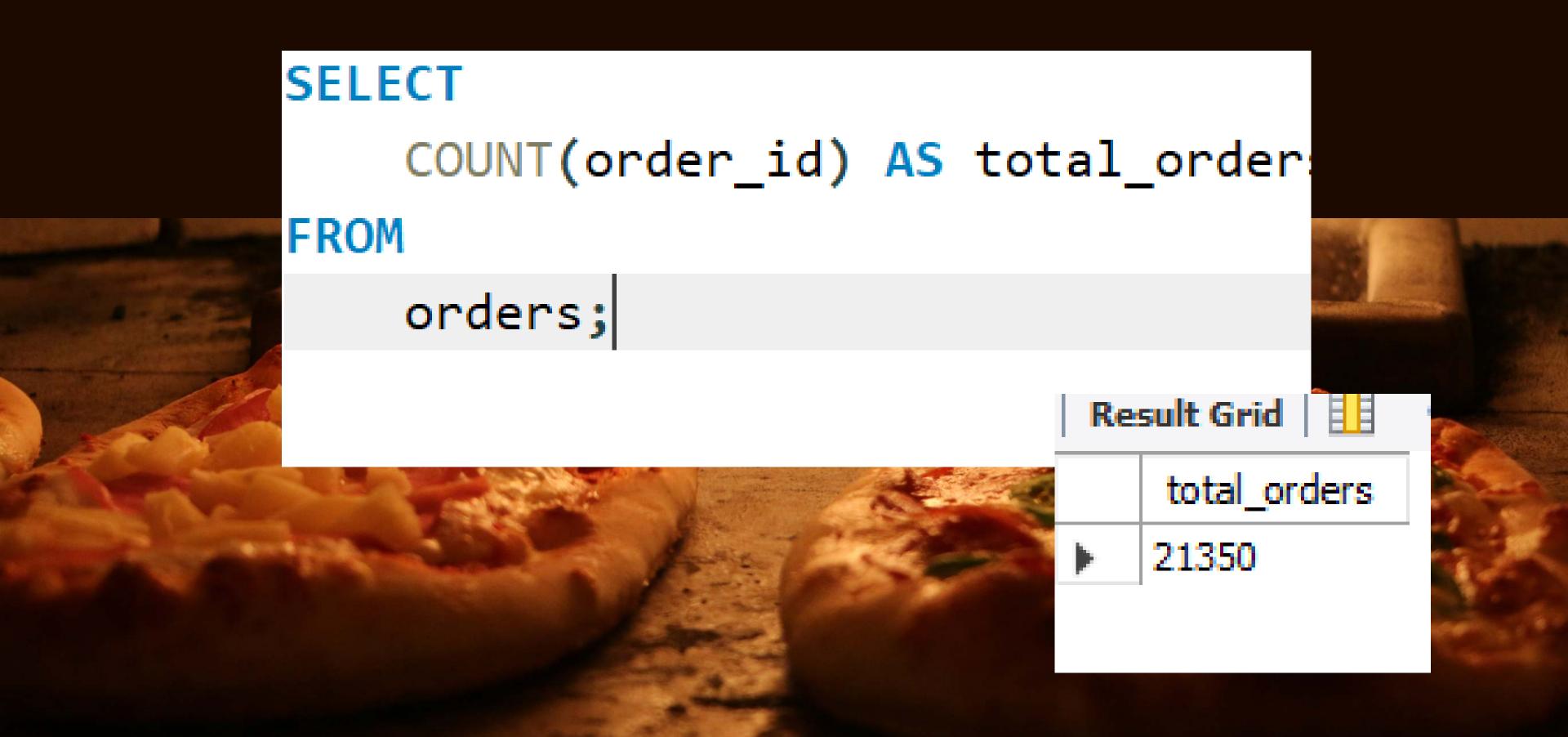
#### QUESTIONS/ QUERIES

- RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.
- CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.
- DENTIFY THE HIGHEST-PRICED PIZZA.
- DENTIFY THE MOST COMMON PIZZA SIZE ORDERED.
- LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.
- 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.
- 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.

#### TABLES AND SCHEMAS



## RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



## CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

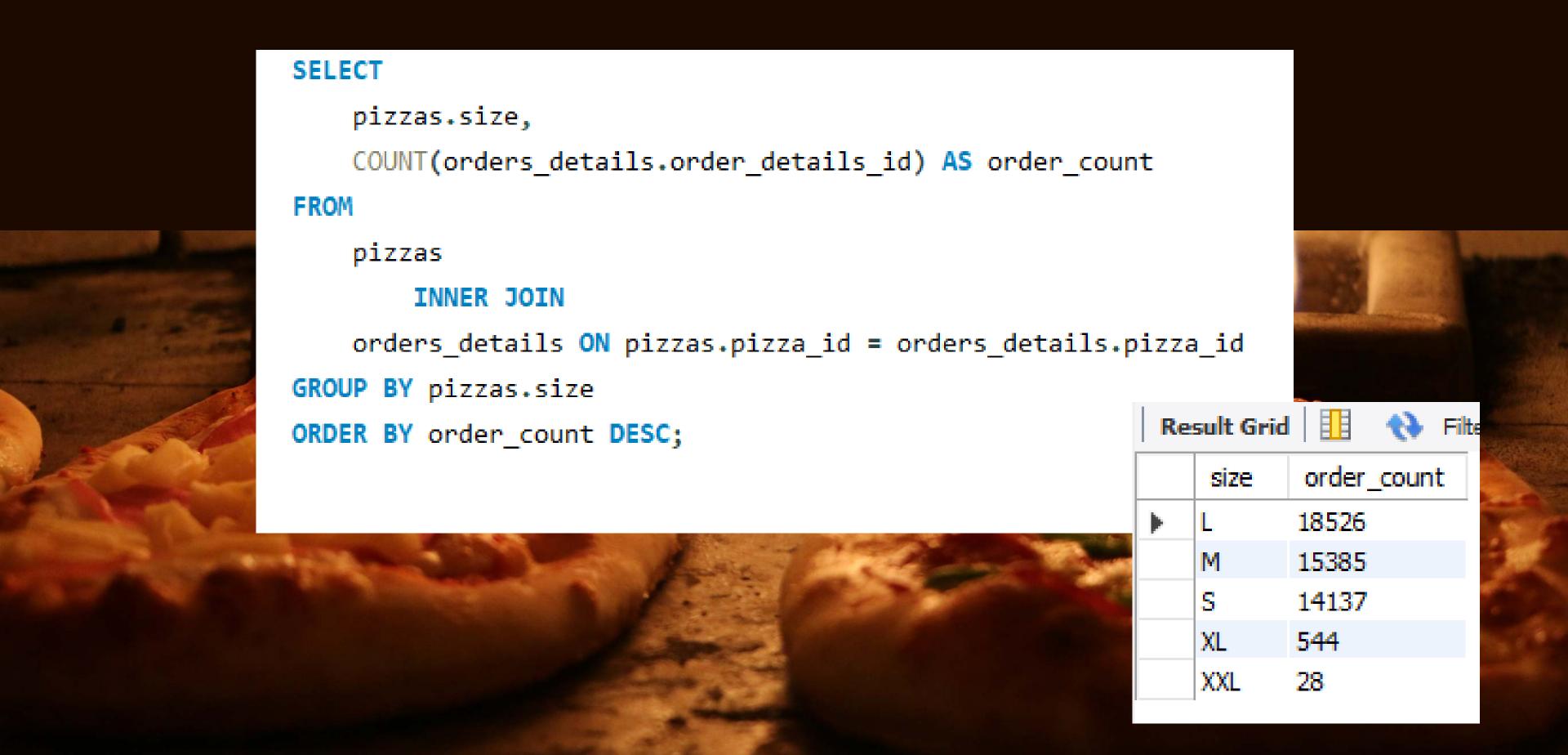
```
SELECT
        ROUND(SUM(p.price * od.quantity), 2) AS total revenue
    FROM
        pizzas p
            INNER JOIN
       orders_details od ON p.pizza_id = od.pizza_id;
Result Grid
   total_revenue
  817860.05
```

#### IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizzas
        INNER JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Result Grid				
	name	price		
•	The Greek Pizza	35.95		

#### IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



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

```
SELECT
    pizza types.name, SUM(orders details.quantity) AS quantity
FROM
    pizza types
        INNER JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        INNER JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizza types.name
                                                    ORDER BY quantity DESC
                                                                           quantity
                                                       name
                                                      The Classic Deluxe Pizza
                                                                           2453
LIMIT 5;
                                                      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.

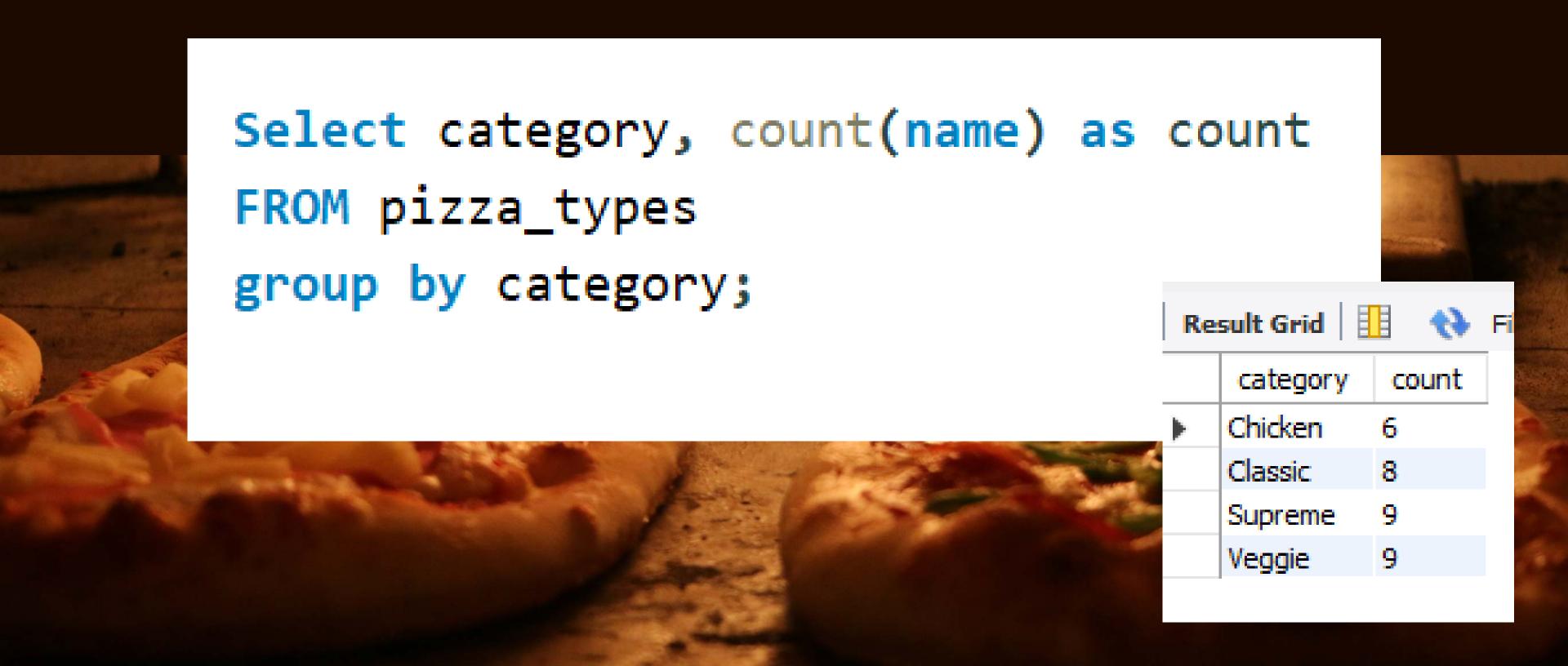
```
SELECT
    pizza_types.category,
    SUM(orders details.quantity) AS quantity
FROM
    pizza_types
        INNER JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        INNER JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
                                                      GROUP BY pizza types.category
                                                         category
                                                                 quantity
ORDER BY quantity DESC;
                                                        Classic
                                                                14888
                                                               11987
                                                        Supreme
                                                        Veggie
                                                                11649
                                                        Chicken
                                                                11050
```

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

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) order_count
FROM
    orders
GROUP BY HOUR(order_time)
ORDER BY HOUR(order_time) DESC;
```

Result Grid				
	hour	order_count		
•	23	28		
	22	663		
	21	1198		
	20	1642		
	19	2009		
	18	2399		
	17	2336		
	16	1920		
	15	1468		

## 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.

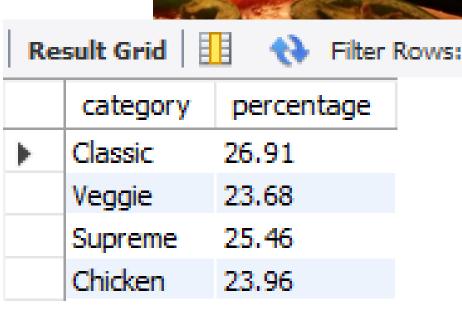
```
with order quantity as
( select orders.order_date as date, sum(orders_details.quantity) as order_count
FROM orders details
inner join orders
on orders_details.order_id = orders.order_id
group by date
Select round(avg(order_count),0)as avg_pizza_order_per_day
                                                                Result Grid Filter Rows:
from order_quantity
                                                                   avg_pizza_order_per_day
                                                                   138
```

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

```
-- With sub-query
SELECT
    (pizza_types.name) AS name,
    ROUND(SUM(orders_details.quantity * pizzas.price),
             AS total revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY name
                                                  Result Grid Filter Rows:
ORDER BY total_revenue DESC
                                                                              total revenue
                                                      name
LIMIT 3;
                                                     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.

```
-- with Sub-Query
SELECT
    pizza_types.category AS category,
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(pizzas.price * orders_details.quantity),
                                2) AS total revenue
                FROM
                    pizzas
                        INNER JOIN
                    orders_details ON pizzas.pizza_id = orders_details.pizza_id) * 100,
            2) AS percentage
FROM
    pizza_types
```



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

```
--- with CTE

─ WITH total_revenue_cte AS (
      SELECT
          ROUND(SUM(pizzas.price * orders_details.quantity), 2) AS total_revenue
      FROM pizzas
          JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id
  SELECT
  pizza_types.category as category,
      ROUND(SUM(orders_details.quantity * pizzas.price) / total_revenue_cte.total_revenue * 100, 2) AS percentage
  FROM
                                                                                                  Result Grid
                                                                                                                       Filter Rows:
      pizza_types
                                                                                                       category
                                                                                                                   percentage
      JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
                                                                                                      Classic
                                                                                                                   26.91
      JOIN orders_details ON pizzas.pizza_id = orders_details.pizza_id
      CROSS JOIN total_revenue_cte
                                                                                                                  23.68
                                                                                                      Veggie
  GROUP BY category, total_revenue_cte.total_revenue ;
                                                                                                                   25,46
                                                                                                      Supreme
                                                                                                      Chicken
                                                                                                                  23.96
```

### ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
WITH sales AS (
select orders.order_date as date, round(sum(orders_details.quantity*pizzas.price),2) as revenue
from pizzas
join orders_details
On pizzas.pizza_id = orders_details.pizza_id
join orders
on orders_details.order_id = orders.order_id
group by date
select sales.date as date, revenue,
sum(sales.revenue) over(order by date) as cumumative revenue
from sales;
```

Res	sult Grid 🛚 🔢		
	date	revenue	cumulative_revenue
•	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 09	2000 00	10200 OF

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

```
with revenue cte as
(select pizza_types.category as category, pizza_types.name as name,
Round(sum(orders_details.quantity*pizzas.price),2) as revenue
from pizza_types
join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on pizzas.pizza_id = orders_details.pizza_id
group by category, name
rank_pizzas AS
( select category, name, revenue,
rank() over(partition by category order by revenue desc) as rank_num
from revenue_cte
                                                                     category
                                                                             name
                                                                             The Thai Chicken Pizza
                                                                    Chicken
                                                                             The Barbecue Chicken Pizza
                                                                    Chicken
select category, name, revenue, rank_num
                                                                             The California Chicken Pizza
                                                                    Chicken
from rank_pizzas
                                                                             The Classic Deluxe Pizza
                                                                    Classic
                                                                    Classic
                                                                             The Hawaiian Pizza
where rank num <=3;
                                                                             The Pepperoni Pizza
                                                                    Classic
```



43434.25

42768

41409.5

38180.5

32273.25

30161.75

34831.25

The Spicy Italian Pizza



#### KEY INSIGHT & FINDINGS

- TOTAL NUMBER OF ORDERS PLACED: 21,350 ORDERS DURING THE ANALYZED PERIOD
- TOTAL REVENUE GENERATED FROM PIZZA SALES: \$817,860.05
- TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE: THE THAI CHICKEN PIZZA: \$43,434.25,THE BARBECUE CHICKEN PIZZA: \$42,768.00, THE CALIFORNIA CHICKEN PIZZA: \$41,409.50
- PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE:
  CLASSIC PIZZA: 26.91%, VEGGIE PIZZA: 23.68%, SUPREME PIZZA: 25.46%, CHICKEN PIZZA: 23.96%
- TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES:
  THE CLASSIC DELUXE, BARBECUE CHICKEN, HAWAIIAN, PEPPERONI, AND THAI CHICKEN PIZZAS WERE THE MOST POPULAR CHOICES.
- ORDERS AVERAGE DAILY ORDER VOLUME WAS 138 PIZZAS/DAY

#### **ANALYSIS SUMMARY**

- CUSTOMER PREFERENCES: CHICKEN-BASED PIZZAS LIKE THAI CHICKEN, BARBECUE CHICKEN, AND CALIFORNIA CHICKEN ARE TOP SELLERS, REFLECTING A STRONG PREFERENCE FOR CHICKEN TOPPINGS AMONG CUSTOMERS.
- REVENUE DISTRIBUTION: REVENUE ACROSS PIZZA TYPES SHOWS BALANCED PERFORMANCE, WITH CLASSIC, VEGGIE, SUPREME, AND CHICKEN PIZZAS ALL CONTRIBUTING SIGNIFICANTLY TO SALES.
- BUSINESS STRATEGY IMPLICATIONS: PIZZAHUB CAN OPTIMIZE ITS MENU BY HIGHLIGHTING POPULAR PIZZA TYPES AND EXPLORING NEW VARIATIONS OR PROMOTIONS BASED ON THESE FINDINGS TO BOOST SALES.

# PIZZAHUB S A L E S A N A L Y S I S KAMIL TIRKEY

#### CONTACTME

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# THANKYOU

