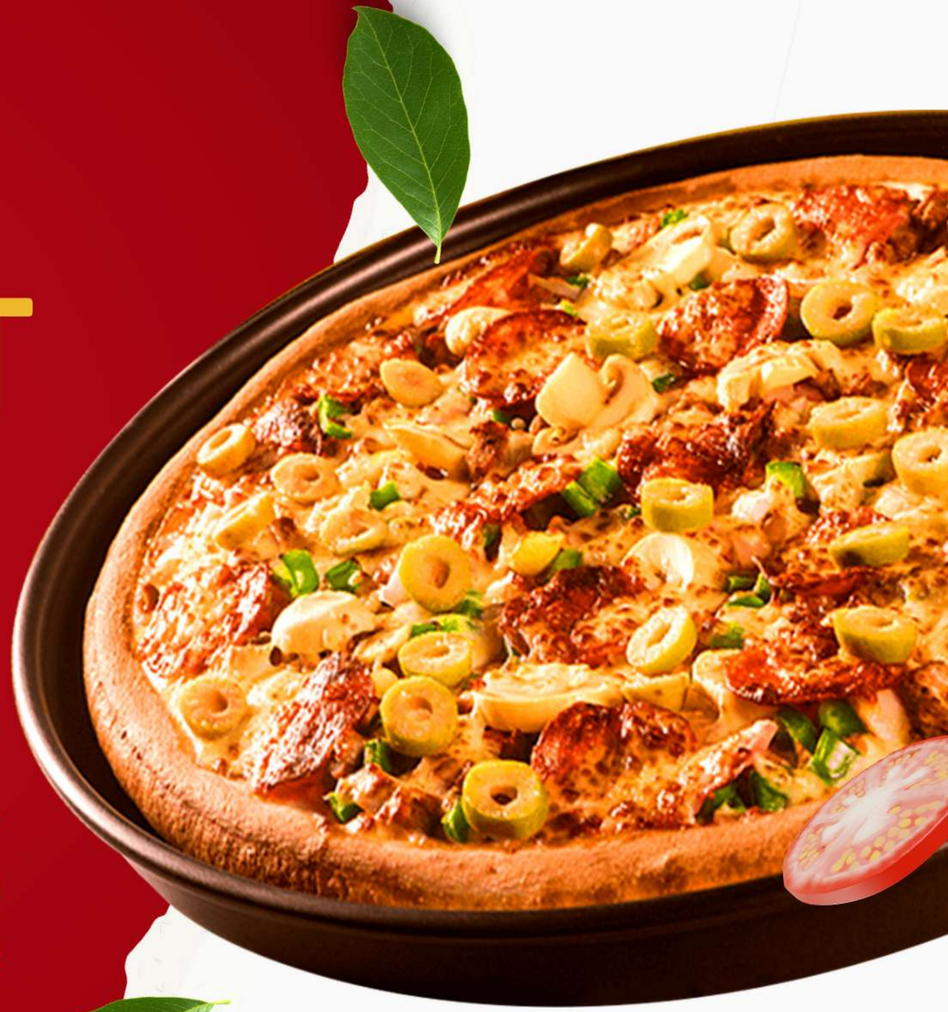
PRASHANT TIWARI

WELCOME TO MY

PIZZA SALES REPORT



HELLO,
My name is Prashant Tiwari, and in this project, I have leveraged SQL queries to address various business-related questions concerning pizza sales. The project involves analyzing data to uncover insights that drive decision-making and improve sales strategies.

ALL THE QUESTIONS ARE MENTIONED HERE

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```
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.
```

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-- CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
2    SELECT
3        ROUND(SUM(order_details.quantity * pizzas.price),
4                2) AS total_sales
5    FROM
6        order_details
7            JOIN
8        pizzas ON pizzas.pizza_id = order_details.pizza_id
```

Result Grid

	total_sales
▶	817860.05

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-- IDENTIFY THE HIGHEST-PRICED PIZZA.

```
2 •    SELECT
3          pizza_types.name, pizzas.price
4      FROM
5          pizza_types
6              JOIN
7          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_i
8      ORDER BY pizzas.price DESC
9      LIMIT 1;
```

Result Grid | Filter Ro

	name	price
▶	The Greek Pizza	35.95

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-- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
2  •  SELECT
3         pizzas.size,
4         COUNT(order_details.order_details_id) AS order_count
5     FROM
6         pizzas
7             JOIN
8         order_details ON pizzas.pizza_id = order_details.pizza_id
9     GROUP BY pizzas.size
10    ORDER BY order_count DESC
11    LIMIT 1;
```

Result Grid | Filt

	size	order_count
▶	L	18526

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

```
4  SELECT
5      pizza_types.name, SUM(order_details.quantity) AS quantity
6  FROM
7      pizza_types
8          JOIN
9      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
0          JOIN
1      order_details ON order_details.pizza_id = pizzas.pizza_id
2  GROUP BY pizza_types.name
3  ORDER BY quantity DESC
4  LIMIT 5;
```

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

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

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

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

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

```sql
SELECT
    HOUR(order_time) AS orders, COUNT(order_id) AS order_cou
FROM
    orders
GROUP BY HOUR(order_time);
```

Result Grid | Filt

orders	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198

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

```
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_sales
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid

	total_sales
▶	817860.05

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-- JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
2       SELECT
3           category, COUNT(name)
4       FROM
5           pizza_types
6       GROUP BY category;
```

Result Grid | Filter Rows:

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```sql
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

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

```sql
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                                2) AS total_sales
                FROM
                    order_details
                        JOIN
                    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
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result Grid

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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-- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
2     select order_date,
3     sum(revenue) over(order by order_date) as cm_revenue
4     from
5     (select orders.order_date,
6     sum(order_details.quantity * pizzas.price) as revenue
7     from order_details join pizzas
8     on order_details.pizza_id = pizzas.pizza_id
9     join orders
0     on orders.order_id = order_details.order_id
1     group by orders.order_date) as sales;
```

Result Grid | Filter Rows:

order_date	cm_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

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

```sql
select category, name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as
from
(select pizza_types.category, pizza_types.name,
sum(order_details.quantity * pizzas.price) 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) as a) as b
where rn <=3 ;
```

Result Grid | Filter Rows:

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	32265.700000
Veggie	The Mexicana Pizza	26780.75

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

```sql
select category, name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as
from
(select pizza_types.category, pizza_types.name,
sum(order_details.quantity * pizzas.price) 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) as a) as b
where rn <=3 ;
```

Result Grid | Filter Rows:

category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
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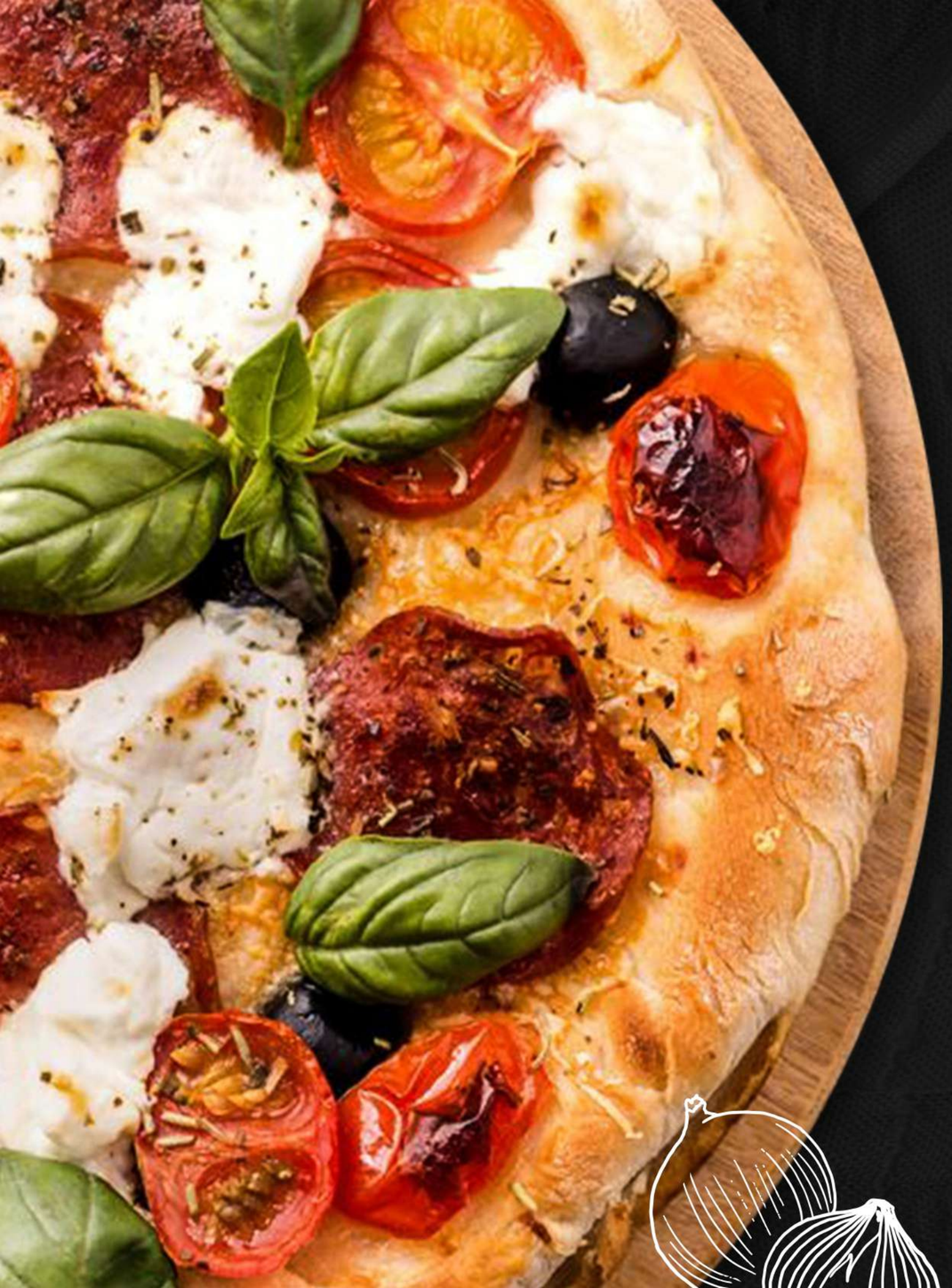
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.700000
Veggie	The Mexicana Pizza	26780.75



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