

# PIZZA HUT SALES REPORT

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# PROJECT OVERVIEW

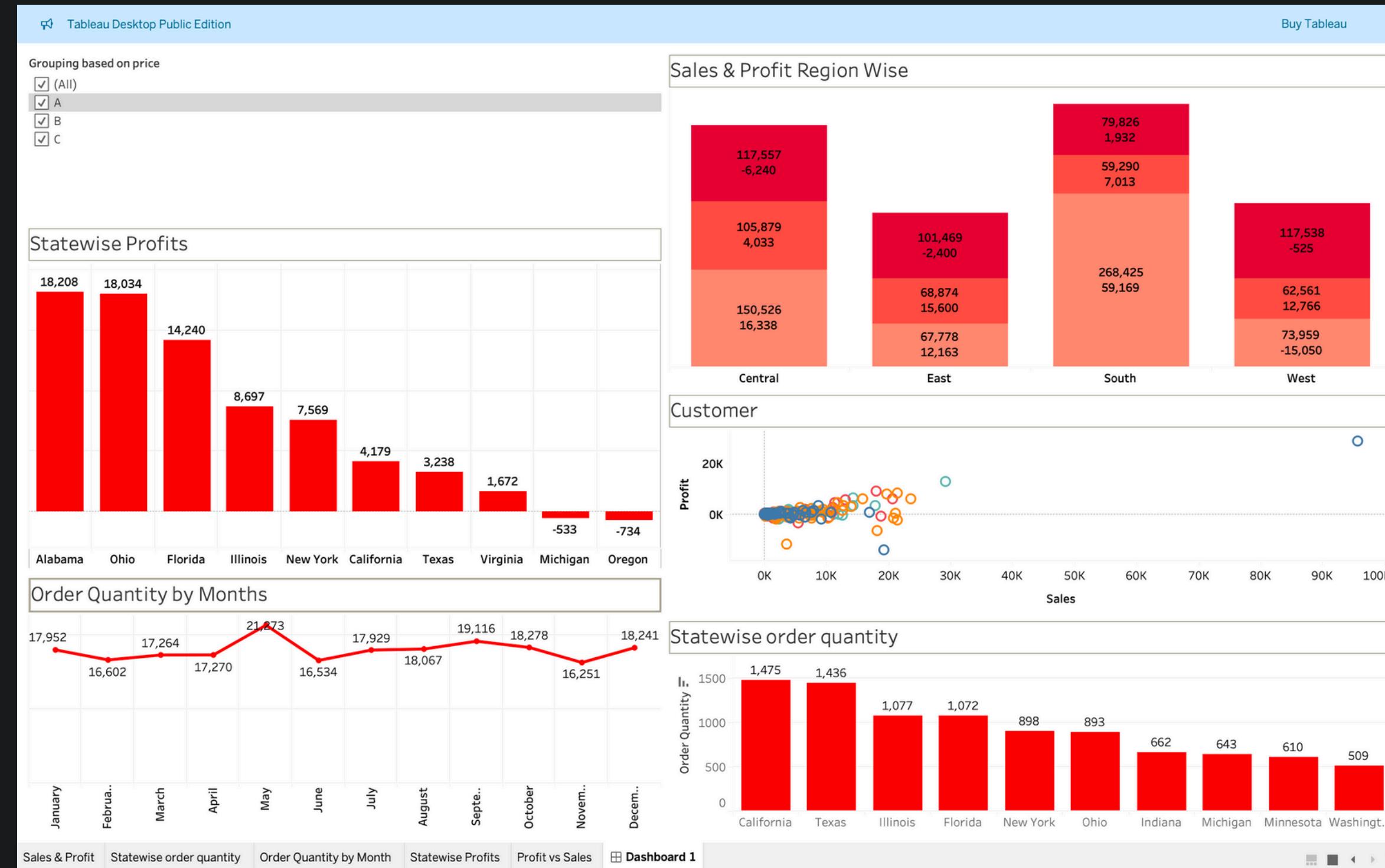
THIS PROJECT INTEGRATES MULTIPLE SQL QUERIES  
EXECUTED IN MYSQL WORKBENCH WITH VISUAL  
INSIGHTS PRESENTED THROUGH A TABLEAU  
DASHBOARD, COMBINING DATA ANALYSIS, SOLUTIONS,  
AND OUTPUTS.

# WHAT I DID

- IMPORTED SALES DATA FROM CSV FILES INTO MYSQL WORKBENCH AND STRUCTURED IT FOR ANALYSIS.
- CLEANED AND VALIDATED DATASETS RELATED TO PIZZAS AND ORDER DETAILS FOR CONSISTENCY AND ACCURACY.
- EXECUTED MULTIPLE SQL QUERIES TO EXPLORE SALES TRENDS, ORDER PATTERNS, AND CATEGORY PERFORMANCE.
- VISUALISED KEY INSIGHTS AND REVENUE BREAKDOWNS THROUGH INTERACTIVE TABLEAU DASHBOARDS.



# TABLEAU DASHBOARD



# SQL QUESTIONS AND QUERIES

```
-- Question: Retrieve the total number of orders placed.
```

```
-- Query
```

```
SELECT COUNT(*) as total_orders FROM ORDERS;
```

## OUTPUT

---

total_orders
21350

---

21350
-------

```
-- Question: Calculate the total revenue generated from pizza sales.  
  
-- Query  
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;
```

## OUTPUT

total\_sales

---

817860.05

---

-- Question: Identify the highest-priced pizza.

-- Query

```
SELECT * FROM pizzas  
WHERE price = (SELECT MAX(price) FROM pizzas);
```

## OUTPUT

pizza_id	pizza_type_id	size	price
the_greek_xxL	the_greek	XXL	35.95

-- Question: Identify the most common pizza size ordered.

-- Query

**SELECT**

    pz.size **AS** Pizza\_size, COUNT(pz.size) **AS** size\_sold  
**FROM**

    order\_details od

**JOIN**

    pizzas pz **ON** pz.pizza\_id = od.pizza\_id

**GROUP BY** pz.size

**ORDER BY** size\_sold **DESC**

**LIMIT** 1;

## OUTPUT

Pizza_size	size_sold
L	18526

-- Question: List the top 5 most ordered pizza types along with their quantities.

-- Query:

```
SELECT  
    pizza_id, SUM(quantity) AS Quantities  
FROM  
    order_details  
GROUP BY pizza_id  
ORDER BY Quantities DESC  
LIMIT 5;
```

## OUTPUT

pizza_id	Quantities
big_meat_s	1914
thai_ckn_l	1410
five_cheese_l	1409
four_cheese_l	1316
classic_dlx_m	1181

```
-- Question: Join the necessary tables to find the total quantity of each pizza category ordered.

-- Query
select
pzts.category,
sum(od.quantity)
from order_details od
join pizzas pzs on od.pizza_id = pzs.pizza_id
join pizza_type_sheet1 pzts on pzs.pizza_type_id = pzts.pizza_type_id
group by pzts.category;
```

## OUTPUT

category	sum(od.quant...
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

```
-- Question: Determine the distribution of orders by hour of the day.

-- Query
select hour(order_time) as hour, count(order_id) from orders
group by hour(order_time);

SELECT
    CASE
        WHEN order_time BETWEEN '11:00:00' AND '15:00:00' THEN 'Noon'
        WHEN order_time BETWEEN '15:00:00' AND '18:00:00' THEN 'Afternoon'
        WHEN order_time BETWEEN '18:00:00' AND '21:00:00' THEN 'Evening'
        WHEN order_time BETWEEN '21:00:00' AND '23:59:59' THEN 'Late Night'
        WHEN order_time BETWEEN '00:00:00' AND '04:00:00' THEN 'Midnight'
        ELSE 'Morning'
    END AS time_period,
    count(*) as Order_distribution
FROM orders
group by time_period;
```

## OUTPUT

hour	count(order_i...)
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468

```
-- Question: Join relevant tables to find the category-wise distribution of pizzas.

-- Query
select
category,
sum(quantity) as Pizza_category
from order_details od
join pizzas pz on pz.pizza_id = od.pizza_id
join pizza_type_sheet1 ppts on ppts.pizza_type_id = pz.pizza_type_id
group by category
order by pizza_category desc;
```

## OUTPUT

category	Pizza_category
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

```
-- Question: Group the orders by date and calculate the average number of pizzas ordered per day.

-- Query
• SELECT
    AVG(daily_pizzas) AS avg_pizzas_per_day
    FROM (
        SELECT
            o.order_date,
            SUM(od.quantity) AS daily_pizzas
        FROM orders o
        JOIN order_details od ON o.order_id = od.order_id
        GROUP BY o.order_date
    ) AS daily_summary;
```

## OUTPUT

| avg\_pizzas\_per\_d...

| 138.4749

```
-- Question: Determine the top 3 most ordered pizza types based on revenue.

-- Query
SELECT
    pi.pizza_id,
    pizza_sub_quantity.pizza_quantity * pi.price AS total_revenue
    FROM (
        SELECT
            pizza_id,
            SUM(quantity) AS pizza_quantity
        FROM order_details
        GROUP BY pizza_id
    ) AS pizza_sub_quantity
    JOIN pizzas pi ON pi.pizza_id = pizza_sub_quantity.pizza_id
    ORDER BY total_revenue DESC
    LIMIT 3;
```

## OUTPUT

	pizza_id	total_revenue
	thai_ckn_l	29257.5
	five_cheese_l	26066.5
	four_cheese_l	23622.2

-- Question: Calculate the percentage contribution of each pizza type to total revenue.

-- Query

```
SELECT
    pi.pizza_id,
    (pizza_sub_quantity.pizza_quantity * pi.price) AS Pizza_revenue,
    (pizza_sub_quantity.pizza_quantity * pi.price) / round(sum(pizza_sub_quantity.pizza_quantity * pi.price),2) AS percent_revenue
FROM (
    SELECT
        pizza_id,
        SUM(quantity) AS pizza_quantity
    FROM order_details
    GROUP BY pizza_id
) AS pizza_sub_quantity
JOIN pizzas pi ON pi.pizza_id = pizza_sub_quantity.pizza_id
order by Pizza_revenue desc;
```

## OUTPUT:

pizza_id	Pizza_revenue	Percent
thai_ckn_l	29257.5	3.58
five_cheese_l	26066.5	3.19
four_cheese_l	23622.2	2.89
spicy_ital_l	23011.75	2.81
big_meat_s	22968	2.81
southw_ckn_l	21082	2.58
bbq_ckn_l	20584	2.52
cali_ckn_l	19235.25	2.35

```
-- Question: Analyze the cumulative revenue generated over time.

-- Query
SELECT
    o.order_date,
    SUM(od.quantity) AS pizzas_sold,
    SUM(od.quantity * p.price) AS daily_revenue,
    SUM(SUM(od.quantity * p.price)) OVER (ORDER BY o.order_date) AS cumulative_revenue
FROM order_details od
JOIN pizzas p ON p.pizza_id = od.pizza_id
JOIN orders o ON o.order_id = od.order_id
GROUP BY o.order_date
ORDER BY o.order_date;
```

## OUTPUT:

order_date	pizzas_sold	daily_revenue	cumulative_revenue
2015-01-01	162	2713.8500000...	2713.8500000000...
2015-01-02	165	2731.8999999...	5445.75
2015-01-03	158	2662.3999999...	8108.15
2015-01-04	106	1755.4500000...	9863.6
2015-01-05	125	2065.95	11929.55
2015-01-06	147	2428.95	14358.5
2015-01-07	138	2202.2000000...	16560.7

```
-- Question: Determine the top 3 most ordered pizza types based on revenue for each pizza category.

-- Query
SELECT
    category, pizza_id, total_revenue
FROM (
    SELECT
        pi.pizza_id,
        (pizza_sub_quantity.pizza_quantity * pi.price) AS total_revenue,
        pzts.category,
        ROW_NUMBER() OVER (PARTITION BY pzts.category ORDER BY (pizza_sub_quantity.pizza_quantity * pi.price) DESC) AS rank_in_category
    FROM (
        SELECT
            pizza_id,
            SUM(quantity) AS pizza_quantity
        FROM order_details
        GROUP BY pizza_id
    ) AS pizza_sub_quantity
    JOIN pizzas pi ON pi.pizza_id = pizza_sub_quantity.pizza_id
    JOIN pizza_type_sheet1 pzts ON pi.pizza_type_id = pzts.pizza_type_id
    ) AS ranked
WHERE rank_in_category <= 3;
```

## OUTPUT:

category	pizza_id	total_revenue
Chicken	thai_ckn_l	29257.5
Chicken	southw_ckn_l	21082
Chicken	bbq_ckn_l	20584
Classic	big_meat_s	22968
Classic	classic_dlx_m	18896
Classic	hawaiian_l	15163.5
Supreme	spicy_ital_l	23011.75
Supreme	ital_supr_m	15526.5
Supreme	ital_supr_l	15500.25
Veggie	five_cheese_l	26066.5
Veggie	four_cheese_l	23622.2
Veggie	mexicana_l	17556.75



THANK  
YOU