



PROJECT OF PIZZA SALES REPORT

REPRESENTED BY
DIP DAS



OBJECTIVE :

THIS REPORT AIMS TO PROVIDE A COMPREHENSIVE ANALYSIS OF PIZZA SALES, FOCUSING ON KEY PERFORMANCE INDICATORS, ORDER PATTERNS, AND REVENUE GENERATION. THE GOAL IS TO ANSWER FUNDAMENTAL QUESTIONS ABOUT PIZZA ORDERS AND SALES DISTRIBUTION, PROVIDE INSIGHTS INTO THE BEST-SELLING PIZZAS AND CATEGORIES, AND ASSESS REVENUE PERFORMANCE OVER TIME.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT
```

```
  COUNT(order_id) as Total_order
```

```
FROM
```

```
orders;
```

Result Grid		Filter F
	Total_order	
▶	21350	



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT ROUND(SUM(quantity * price)) AS Total_Revenue  
FROM  
    pizzahut.order_details  
    JOIN  
    pizzahut.pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Result Grid  Filter Rows: 	
	Total_Revenue
▶	175141



IDENTIFY THE HIGHEST-PRICED PIZZA NAME



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

	p_name	price
▶	The Greek Pizza	36



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    pizzas.size, COUNT(order_details.order_details_id) as Total_order
FROM
    pizzas
    JOIN
        order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
order by COUNT(order_details.order_details_id) desc ;
```

Result Grid  Filter Rows: 		
	size	Total_order
▶	L	3973
	M	3183
	S	3042
	XL	108
	XXL	7



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

```
SELECT
    pizza_types.p_name,
    SUM(order_details.quantity) AS total_quantity
FROM
    pizzas
    JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
    JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.p_name
ORDER BY total_quantity DESC
LIMIT 5;
```

	p_name	total_quantity
▶	The Pepperoni Pizza	535
	The Barbecue Chicken Pizza	534
	The California Chicken Pizza	509
	The Hawaiian Pizza	505
	The Thai Chicken Pizza	483



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERD

```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS total_order
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.category
ORDER BY total_order DESC;
```

	category	total_order
▶	Classic	3122
	Veggie	2541
	Supreme	2524
	Chicken	2320



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY


```
• SELECT
    HOUR(order_time) AS o_hour, COUNT(order_id) AS count_order
FROM
    orders
GROUP BY o_hour
ORDER BY count_order DESC;
```

	o_hour	count_order
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1



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

```
SELECT
    pizza_types.category AS pizza_category,
    COUNT(pizza_types.p_name) as COUNT
FROM
    pizza_types
GROUP BY pizza_category;
```

Result Grid  Filter Rows: <input type="text"/>		
	pizza_category	COUNT
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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

```
SELECT
    orders.order_date AS ord_date,
    SUM(order_details.quantity) AS total_order,
    AVG(order_details.quantity) AS avg_order
FROM
    orders
    JOIN
    order_details ON orders.order_id = order_details.order_id
GROUP BY ord_date
ORDER BY total_order DESC limit 10;
```

ord_date	total_order	avg_order
2015-02-01	191	1.0160
2015-03-13	176	1.0173
2015-02-20	175	1.0355
2015-01-08	173	1.0117
2015-02-27	173	1.0117
2015-01-02	165	1.0313
2015-02-18	163	1.0188
2015-02-13	163	1.0188
2015-01-01	162	1.0062
2015-02-03	159	1.0392



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

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

p_name	Total_Revenue
The Barbecue Chicken Pizza	9558
The California Chicken Pizza	8977
The Thai Chicken Pizza	8895



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

```
SELECT
    pizza_types.category AS pizza_category,
    (SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price))
    FROM
        order_details
        JOIN
        pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100
    AS percentage_of_revenue
FROM
    pizzas
    JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
    JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.category;
```

pizza_category	percentage_of_R
Classic	26.6208
Veggie	24.2981
Supreme	25.2945
Chicken	23.7865



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

```
select p_name,Total_revenue,category,r_rank from

(select p_name, Total_revenue,category ,rank()
over (partition by category order by Total_revenue desc) as r_rank
from
(SELECT
    pizza_types.p_name,pizza_types.category, SUM(quantity * price) as Total_Revenue
FROM
    pizzas
    JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
    JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.p_name,pizza_types.category
ORDER BY SUM(quantity * price) DESC) as a) as b where r_rank <=3 ;
```

p_name	Total_revenue	category	r_rank
The Barbecue Chicken Pizza	9558	Chicken	1
The California Chicken Pizza	8977	Chicken	2
The Thai Chicken Pizza	8895	Chicken	3
The Classic Deluxe Pizza	7356	Classic	1
The Hawaiian Pizza	6867	Classic	2
The Pepperoni Pizza	6806	Classic	3
The Spicy Italian Pizza	7121	Supreme	1
The Italian Supreme Pizza	7053	Supreme	2
The Sicilian Pizza	6748	Supreme	3
The Four Cheese Pizza	7158	Veggie	1
The Five Cheese Pizza	6042	Veggie	2
The Vegetables + Vegetabl...	5848	Veggie	3



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```
SELECT
    sales.order_date,
    SUM(total_revenue) OVER(ORDER BY order_date) AS cumulative_revenue
FROM (
    SELECT
        orders.order_date AS order_date,
        SUM(order_details.quantity * pizzas.price) AS total_revenue
    FROM pizzas
    JOIN order_details ON order_details.pizza_id = pizzas.pizza_id
    JOIN orders ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date
) AS sales;
```

	order_date	cumulative_revenue
▶	2015-01-01	2746
	2015-01-02	5512
	2015-01-03	8203
	2015-01-04	9983
	2015-01-05	12075
	2015-01-06	14532
	2015-01-07	16761
	2015-01-08	19628
	2015-01-09	21777



CONCLUSION:

THE ANALYSIS PROVIDED IN THIS REPORT WILL HELP IDENTIFY KEY AREAS OF STRENGTH IN PIZZA SALES, SUCH AS WHICH TYPES OF PIZZAS AND CATEGORIES ARE MOST POPULAR, WHAT TIMES OF THE DAY ARE BUSIEST, AND HOW REVENUE IS DISTRIBUTED. THE DATA CAN BE USED TO IMPROVE INVENTORY MANAGEMENT, PRICING STRATEGY, STAFFING, AND PROMOTIONAL ACTIVITIES TO MAXIMIZE BOTH SALES VOLUME AND REVENUE.

FURTHERMORE, UNDERSTANDING THE PERCENTAGE CONTRIBUTIONS OF INDIVIDUAL PIZZAS AND CUMULATIVE REVENUE GROWTH CAN HELP THE BUSINESS MAKE INFORMED DECISIONS ABOUT PRODUCT OFFERINGS, PROMOTIONAL FOCUS, AND GROWTH STRATEGIES.



THANK YOU

