PIZZA SALES

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SQL PROJECT

ANALYSING PIZZA SALES DATA

Q1. Retrieve the total number of orders placed?

```sql
SELECT
    COUNT(order_id) AS total_no_order
FROM
    orders;
```

total_no_order
21350

Q2. Calculate the total revenue generated from pizza sales?

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

total_revenue
817860.05

Q3. Identify the highest-priced pizza?

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

name	price
The Greek Pizza	35.95

Q4. Identify the most common pizza size ordered?

```sql
SELECT
    pizzas.size,
    COUNT(order_details.order_detail_id) AS pizza_size_ordered
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY pizza_size_ordered DESC;
```

size	pizza_size_ordered
L	18526
M	15385
S	14137
XL	544
XXL	28

Q5. List the top 5 most ordered pizza types along with their quantities?

```sql
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantities
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.name
ORDER BY quantities DESC
LIMIT 5;
```

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

Q6. Join the necessary tables to find the total quantity of each pizza category ordered?

```sql
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
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 quantity DESC;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Q7. Determine the distribution of orders by hour of the day?

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

hour	order_count
11	1
12	1
12	1
12	1
12	1
12	1
12	1
13	1
13	1
13	1
15	1
15	1
15	1
15	1
16	1
16	1
16	1
16	1
16	1
16	1
17	1
17	1
17	1
17	1
18	1
18	1
19	1
19	1
19	1

Q8. Join relevant tables to find the category-wise distribution of pizzas?

```sql
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

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

Q9. Group the orders by date and calculate the average number of pizzas ordered per day?

```sql
SELECT
    ROUND(AVG(quantity), 2) AS avg_pizzas_ordered_perday
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

avg_pizzas_ordered_perday
138.47

Q10. 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;
```

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

THANK YOU