SQL PROJECT ON PIZZASHOP

BY SHAMIM

Specially, Thanks Wscube tech
For Support

Hi Myself Shamim! Creating a SQL project for a pizza shop like a fantastic way to start building my career!

QUESTIONS:-

- 1.RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED
- 2.CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.
- 3.IDENTIFY THE HIGHEST-PRICED OF PIZZA.
- 4.IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.
- 5.LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITY.
- 6.JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA
- CATEGORY ORDERED.
- 7.DETERMINE THE DISTRIBUTION ORDERS BY HOUR OF THE DAY.
- 8.JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.
- 9.GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS
- ORDERED PER DAY.
- 10.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.
- 11.CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL
- REVENUE.
- 12.ANALYSE THE CUMULATIVE REVENUE GENERATED OVER TIME.
- 13.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR
- EACH PIZZA CATEGORY.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

- SELECT
-     COUNT(ORDER_ID) AS TOTAL_ORDERS
- FROM
-     ORDERS;

Total Orders -   21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT
    ROUND(SUM(PIZZAS.PRICE * ORDERS_DETAILS.QUANTITY),
            2) AS TOTAL_SALES
FROM
    ORDERS_DETAILS
        JOIN
    PIZZAS ON ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID;
```

```
Total Sales -        817860.05
```

IDENTIFY THE HIGHEST-PRICED PIZZA

```
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;
```

The Greek Pizza = 35.95 Price

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    PIZZAS.SIZE, COUNT(ORDERS_DETAILS.ORDER_DETAILS_ID) AS
A
FROM
    PIZZAS
        JOIN
    ORDERS_DETAILS ON PIZZAS.PIZZA_ID =
ORDERS_DETAILS.PIZZA_ID
GROUP BY PIZZAS.SIZE
ORDER BY A DESC
LIMIT 1;
```

Most common pizza orderd
Large /18526 (count)

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

```
SELECT
    PIZZA_TYPES.NAME,
SUM(ORDERS_DETAILS.QUANTITY) AS Q
FROM
    PIZZAS
        JOIN
    PIZZA_TYPES ON PIZZAS.PIZZA_TYPE_ID
= PIZZA_TYPES.PIZZA_TYPE_ID
        JOIN
    ORDERS_DETAILS ON PIZZAS.PIZZA_ID =
ORDERS_DETAILS.PIZZA_ID
GROUP BY PIZZA_TYPES.NAME
ORDER BY Q DESC
LIMIT 5;
```

The Classic Deluxe Pizza	2453
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
    SUM(ORDERS_DETAILS.QUANTITY) Q,
(PIZZA_TYPES.CATEGORY) AS C
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 C
ORDER BY Q DESC;
```

14888	Classic
11987	Supreme
11649	Veggie
11050	Chicken
14888	Classic

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT
    HOUR(ORDER_TIME) HOURS, COUNT(ORDER_ID)
FROM
    ORDERS
GROUP BY HOURS;
```

14	1472
15	1468
16	1920
17	2336
18	2399

MORE ----------------

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

```
SELECT
    CATEGORY, COUNT(NAME)
FROM
    PIZZA_TYPES
GROUP BY CATEGORY;
```

Chicken	6
Classic	8
Supreme	9
Veggie	9
Chicken	6

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

```
SELECT
    ROUND(AVG(QUANTITY), 0) AS
AVG_PIZZA_ORDERED_PER_DAY
FROM
    (SELECT
        ORDERS.ORDER_DATE,
SUM(ORDERS_DETAILS.QUANTITY) AS QUANTITY
    FROM
        ORDERS
    JOIN ORDERS_DETAILS ON ORDERS.ORDER_ID
= ORDERS_DETAILS.ORDER_ID
    GROUP BY ORDERS.ORDER_DATE) AS
ORDER_QUANTITY;
```

Avg_pizza_orderdd_per_day = 138

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
SELECT
    PIZZA_TYPES.NAME,
    SUM(SELECT PIZZA_TYPES.CATEGORY, ROUND(SUM(ORDERS_DETAILS.QUANTITY * PIZZAS.PRICE) /
(SELECT
ROUND(SUM(PIZZAS.PRICE * ORDERS_DETAILS.QUANTITY),
            2) AS TOTAL_SALES
FROM
    ORDERS_DETAILS
        JOIN
    PIZZAS ON ORDERS_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID)) * 100,2) 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 PIZZA_TYPES.CATEGORY
ORDER BY REVENUE;
.QUANTITY * PIZZAS.PRICE) AS TOTAL_SALES
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 PIZZA_TYPES.NAME
ORDER BY TOTAL_SALES DESC
LIMIT 3;
```

Veggie	23.68
Chicken	23.96
Supreme	25.46
Classic	26.91
Veggie	23.68

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

```
SELECT ORDER_DATE,
SUM(REVENUE) OVER (ORDER BY ORDER_DATE) AS
CUM_REVENUE
FROM
(SELECT ORDERS.ORDER_DATE AS ORDER_DATE,
ROUND(SUM(PIZZAS.PRICE *
ORDERS_DETAILS.QUANTITY), 2) AS REVENUE
FROM PIZZAS JOIN ORDERS_DETAILS ON
PIZZAS.PIZZA_ID = ORDERS_DETAILS.PIZZA_ID JOIN
ORDERS
ON ORDERS.ORDER_ID = ORDERS_DETAILS.ORDER_ID
GROUP BY ORDER_DATE) AS SALES;
```

2015-01-01	2713.85
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55

MORE ----------------

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

```
SELECT NAME, REVENUE FROM
(SELECT CATEGORY, NAME, REVENUE,
RANK() OVER(PARTITION BY CATEGORY ORDER BY
REVENUE DESC) AS RN
FROM
(SELECT PIZZA_TYPES.NAME, PIZZA_TYPES.CATEGORY,
SUM(PIZZAS.PRICE * ORDERS_DETAILS.QUANTITY) AS
REVENUE
FROM PIZZAS JOIN PIZZA_TYPES ON
PIZZAS.PIZZA_TYPE_ID = PIZZA_TYPES.PIZZA_TYPE_ID
JOIN ORDERS_DETAILS ON PIZZAS.PIZZA_ID =
ORDERS_DETAILS.PIZZA_ID
GROUP BY PIZZA_TYPES.NAME,
PIZZA_TYPES.CATEGORY) AS A) AS B WHERE RN<= 3;
```

The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25

MORE ----------------

Thank You

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