





HI, I'M SHANAWAZ, AND I HAVE COMPLETED AN SQL PROJECT ANALYZING PIZZA SALES DATA. THIS PROJECT INVOLVED SOLVING VARIOUS QUERIES TO UNCOVER INSIGHTS, FROM BASIC ORDER TOTALS AND REVENUE CALCULATIONS TO ADVANCED ANALYSES LIKE REVENUE CONTRIBUTION AND CATEGORY-BASED PERFORMANCE, SHOWCASING MY SQL EXPERTISE.

RETRIVE THE TOTAL NUMBER OF ORDERS PLACED

```
SELECT

COUNT(ORDER_ID) AS TOTAL_ORDERS

FROM

ORDERS;
```

TOTAL REVENUE GENEREATED FROM PIZZA SALES



```
SELECT

ROUND(SUM(PRICE * QUANTITY), 2) AS TOTAL_REVENUE

FROM

PIZZAS

JOIN
```

ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID;

IDENTIFY THE HIGHEST-PRICED PIZZA.



```
SELECT
   NAME, PRICE
FROM
   PIZZAS
        JOIN
   PIZZA_TYPES ON PIZZAS.PIZZA_TYPE_ID = PIZZA_TYPES.PIZZA_TYPE_ID
ORDER BY PRICE DESC
LIMIT 1;
```

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED. [>



```
SELECT
    SIZE AS COMMON_SIZE,
    COUNT (ORDER_DETAILS_ID) AS QUANTITY_ORDERED
FROM
    PIZZAS
        JOIN
    ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID
GROUP BY SIZE
ORDER BY QUANTITY ORDERED DESC
LIMIT 1;
```

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

```
SELECT
    PIZZA_TYPES.PIZZA_TYPE_ID,
    NAME,
    SUM(ORDER DETAILS.QUANTITY) AS QUANTITY
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.PIZZA TYPE ID, NAME
ORDER BY QUANTITY DESC
LIMIT 5;
```

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

```
SELECT
   CATEGORY AS PIZZA CATEGORY, SUM(QUANTITY) AS QUANTITY
FROM
   PIZZA TYPES
        JOIN
   PIZZAS ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID
        JOIN
   ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID
GROUP BY CATEGORY;
```

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT

HOUR(TIME) AS ORDER_HOUR, COUNT(ORDER_ID) AS ORDER_COUNT

FROM

ORDERS

GROUP BY ORDER_HOUR;
```

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

```
SELECT

CATEGORY, COUNT(PIZZA_TYPE_ID)

FROM

PIZZA_TYPES

GROUP BY CATEGORY;
```

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

```
SELECT
    ROUND(AVG(QUANTITY), 0)
FROM
    (SELECT
        DATE(ORDERS.DATE) AS ORDER DATE, SUM(QUANTITY) AS QUANTITY
    FROM
        ORDERS
    JOIN ORDER_DETAILS ON ORDERS.ORDER_ID = ORDER_DETAILS.ORDER_ID
    GROUP BY ORDER DATE) AS ORDER QUANTITY;
```

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

```
SELECT
   PIZZA TYPES.PIZZA TYPE ID,
    PIZZA TYPES. NAME,
    SUM(QUANTITY * PRICE) AS REVENUE
FROM
    PIZZA TYPES
        JOIN
    PIZZAS ON PIZZAS.PIZZA TYPE ID = PIZZA TYPES.PIZZA TYPE ID
        JOIN
    ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID
GROUP BY PIZZA TYPE ID , PIZZA TYPES . NAME
ORDER BY REVENUE DESC
LIMIT 3;
```

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

```
SELECT
    PIZZA_TYPES.PIZZA_TYPE_ID,
    ROUND(SUM(QUANTITY * PRICE) / (SELECT
                    ROUND(SUM(PRICE * QUANTITY), 2) AS TOTAL_REVENUE
                FROM
                    PIZZAS
                        JOIN
                    ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID) * 100,
            AS REVENUE_PERCENTAGE
FROM
    PIZZA_TYPES
        JOIN
    PIZZAS ON PIZZAS.PIZZA TYPE_ID = PIZZA TYPES.PIZZA TYPE_ID
        JOIN
    ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID
GROUP BY PIZZA_TYPES.PIZZA_TYPE_ID;
```

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
SELECT DATE, ROUND(SUM(REVENUE) OVER(ORDER BY DATE))AS CUM_REVENUE FROM (SELECT DATE(DATE) AS DATE, SUM(QUANTITY * PRICE) AS REVENUE FROM ORDERS

JOIN ORDER_DETAILS ON

ORDER_DETAILS.ORDER_ID = ORDERS.ORDER_ID

JOIN PIZZAS ON

ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID

GROUP BY DATE) AS SALES;
```

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

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

CONCLUSION AND REFLECTION

THIS PROJECT PROVIDED VALUABLE INSIGHTS INTO PIZZA SALES, INCLUDING CUSTOMER PREFERENCES, PEAK SALES PERIODS, AND THE MOST POPULAR PIZZA TYPES. CHALLENGES SUCH AS HANDLING LARGE DATASETS AND OPTIMIZING COMPLEX QUERIES WERE EFFECTIVELY MANAGED, ENHANCING MY SQL SKILLS.

FUTURE ENHANCEMENTS:

EXPAND THE DATASET WITH CUSTOMER FEEDBACK TO ANALYZE SATISFACTION.
INTEGRATE EXTERNAL DATA SOURCES FOR A MORE COMPREHENSIVE MARKET ANALYSIS.

ACKNOWLEDGMENTS: SPECIAL THANKS TO WS CUBETECH FOR PROVIDING THE DATASET AND RESOURCES.

CONTACT INFORMATION: FOR MORE DETAILS OR COLLABORATION OPPORTUNITIES, FEEL FREE TO CONNECT WITH ME:

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