



WELCOME TO PIZZA SQL PROJECT



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT  
    COUNT(ORDER_ID) AS TOTAL_NUMBER_OF_ORDERS  
FROM  
    ORDERS;
```

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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

IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT  
    PIZZA_TYPES.NAME, PIZZAS.PRICE      -- FOLLOWING CODE Retrieve Highest_Name of Pizza  
FROM  
    PIZZA_TYPES  
        JOIN  
            PIZZAS ON PIZZAS.PIZZA_TYPE_ID = PIZZA_TYPES.PIZZA_TYPE_ID      -- COMPARING TABLES WITH EACH OTHER  
ORDER BY PIZZAS.PRICE DESC          -- ORDER BY DESCINDING  
LIMIT 1;                            -- HIGHEST VALUE
```

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT  
    PIZZAS.SIZE, COUNT(ORDER_DETAILS.ORDER_ID) -- FOLLOWING CODE SELECTING PIZZAS.SIZE FROM PIZZAS TABLE  
FROM  
    PIZZAS  
        JOIN -- JOIN TWO TABLE  
            ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID -- COMPARISON WITH EACH OTHER WITH HELP OF BOTH IDS  
GROUP BY PIZZAS.SIZE; -- GROUP BY
```

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

```
SELECT  
    PIZZA_ID, COUNT(QUANTITY)      -- FOLLOWING CODE Retrieve PIZZA_ID AND COUNT OF QUANTITY  
FROM  
    ORDER_DETAILS  
GROUP BY PIZZA_ID                -- MADE THEM GROUP BY  
ORDER BY COUNT(QUANTITY) DESC;    -- ORDER BY DESINDING
```

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

```
SELECT  
    PIZZA_TYPES.NAME, SUM(ORDER_DETAILS.QUANTITY) TOTAL  
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 PIZZA_TYPES.NAME  
ORDER BY TOTAL DESC  
LIMIT 5;
```

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

```
SELECT pizza_types.CATEGORY, SUM(order_details.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 pizza_types.CATEGORY;
```

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

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

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

```
SELECT COUNT(PIZZA_TYPES.NAME),PIZZA_TYPES.CATEGORY AS "CATEGORY" FROM pizza_types  
JOIN PIZZAS  
ON PIZZA_TYPES.PIZZA_TYPE_ID = PIZZAS.PIZZA_TYPE_ID  
GROUP BY CATEGORY;
```

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

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

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

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

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
SELECT PIZZA_TYPES.CATEGORY,  
       SUM(PIZZAS.PRICE * ORDER_DETAILS.QUANTITY) /  
     (SELECT SUM(PIZZAS.PRICE * ORDER_DETAILS.QUANTITY)  
      FROM PIZZAS  
      JOIN ORDER_DETAILS ON PIZZAS.PIZZA_ID = ORDER_DETAILS.PIZZA_ID) * 100 AS REVENUE  
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 PIZZA_TYPES.CATEGORY  
ORDER BY REVENUE DESC;
```

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

```
SELECT NAME,CATEGORY,TOTAL FROM (SELECT NAME,CATEGORY,TOTAL,  
RANK() OVER (PARTITION BY CATEGORY ORDER BY TOTAL DESC) AS "B" FROM  
(SELECT NAME,CATEGORY,SUM(TOTAL) AS TOTAL FROM  
(SELECT PIZZA_TYPES.NAME,PIZZA_TYPES.CATEGORY,ORDER_DETAILS.QUANTITY * PIZZAS.PRICE AS TOTAL 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) AS A  
GROUP BY CATEGORY,NAME  
ORDER BY TOTAL DESC) AS C) AS D  
WHERE B <= 3 ;
```