



```
CREATE DATABASE PIZZA_PUNK;
```

```
SELECT
```

```
    *
```

```
FROM
```

```
    pizza_types;
```

```
CREATE TABLE order_details (  
    order_details_id INT NOT NULL,  
    order_id INT NOT NULL,  
    pizza_id TEXT NOT NULL,  
    quantity INT NOT NULL,  
    PRIMARY KEY (order_details_id)  
);  
  
show tables;
```



```
-- SHOW TOTAL REVENUE GENRATED BY PIZZA FIRM
```

```
SELECT
```

```
    ROUND(SUM(order_details.quantity * pizza1.price),  
           2) AS Total_Revenue
```

```
FROM
```

```
    order_details
```

```
    JOIN
```

```
    pizza1 ON pizza1.pizza_id = order_details.pizza_id;
```



```
-- SHOW HIGHEST PRICE PIZZA;
```

```
SELECT
```

```
    pizza_types.name, pizza1.price
```

```
FROM
```

```
    pizza1
```

```
    JOIN
```

```
    pizza_types ON pizza1.pizza_type_id = pizza_types.pizza_type_id
```

```
ORDER BY pizza1.price desc
```

```
LIMIT 1;
```



```
-- SHOW HIGHEST PRICE PIZZA;
```

```
SELECT
```

```
    pizza_types.name, pizza1.price
```

```
FROM
```

```
    pizza1
```

```
    JOIN
```

```
    pizza_types ON pizza1.pizza_type_id = pizza_types.pizza_type_id
```

```
ORDER BY pizza1.price desc
```

```
LIMIT 1;
```



```
-- IDENTIFY THE MOST COMMONLY ORDERD PIZZA SIZE
```

```
SELECT
```

```
    pizza1.size, COUNT(order_details.order_details_id)
```

```
FROM
```

```
    pizza1
```

```
    JOIN
```

```
    order_details ON pizza1.pizza_id = order_details.pizza_id
```

```
GROUP BY pizza1.size;
```



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

```
SELECT
```

```
    pizza_types.name, SUM(order_details.quantity) AS quant
```

```
FROM
```

```
    pizza_types
```

```
    JOIN
```

```
    pizza1 ON pizza1.pizza_type_id = pizza_types.pizza_type_id
```

```
    JOIN
```

```
    order_details ON order_details.pizza_id = pizza1.pizza_id
```

```
GROUP BY pizza_types.name
```

```
ORDER BY quant DESC
```

```
LIMIT 5
```

```
;
```



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

```
SELECT
```

```
    pizza_types.category,  
    SUM(order_details.quantity) AS QUANTITY
```

```
FROM
```

```
    pizza_types
```

```
    JOIN
```

```
    pizza1 ON pizza_types.pizza_type_id = pizza1.pizza_type_id
```

```
    JOIN
```

```
    order_details ON order_details.pizza_id = pizza1.pizza_id
```

```
GROUP BY pizza_types.category
```

```
ORDER BY quantity DESC;
```



```
-- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY
```

```
SELECT hour(time),count(order_id) FROM orders  
group by hour(time)
```

```
;
```




```
-- JOIN RELEVANT TABLES TO FIND THE CATEGORYWISE DISTRIBUTION  
-- OF PIZZAS
```

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

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

```
SELECT
```

```
    *
```

```
FROM
```

```
    order_details;
```

```
SELECT
```

```
    round(avg(quantity),0)
```

```
FROM
```

```
    (SELECT
```

```
        orders.date, SUM(quantity) as quantity
```

```
    FROM
```

```
        orders
```

```
    JOIN order_details ON orders.order_id = order_details.order_id
```

```
    GROUP BY orders.date) AS AVERAGE_PER_DAY;
```

```
-- DETERMINE THE TOP 3 MOST ORDERED PIZZA BASED ON THE REVENUE
```

```
SELECT
```

```
    *
```

```
FROM
```

```
    pizza_types;
```

```
SELECT
```

```
    pizza_types.name, SUM(order_details.quantity * pizza1.price) as REVENUE
```

```
FROM
```

```
    pizza1
```

```
    JOIN
```

```
    order_details ON pizza1.pizza_id = order_details.pizza_id
```

```
    JOIN
```

```
    pizza_types ON pizza1.pizza_type_id = pizza_types.pizza_type_id
```

```
group by pizza_types.name
```

```
order by REVENUE DESC LIMIT 3;
```

```
-- CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO THE TOTAL REVENUE--
SELECT
    pizza_types.category,
    ( SUM(order_details.quantity * pizza1.price) / (SELECT
        SUM(order_details.quantity * pizza1.price)
        FROM
            ORDER_DETAILS
            JOIN
                PIZZA1 ON pizza1.pizza_id = order_details.pizza_id))*100 as percent
FROM
    pizza1
    JOIN
        order_details ON pizza1.pizza_id = order_details.pizza_id
    JOIN
        pizza_types ON pizza1.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category
ORDER BY percent DESC;
```



```
-- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.
```

```
SELECT
```

```
    *
```

```
FROM
```

```
    orders;
```

```
> select date , sum(revenue) over (order by date) as cum_revenue from (select orders.date,  
    sum(order_details.quantity * pizza1.price) as revenue from order_details join pizza1 on order_details.pizza_id=pizza1.pizza_id  
- join orders on orders.order_id=order_details.order_id  
group by orders.date) as sales; |
```