SQL QUERIES FOR PIZZA SALES ANALYSIS

-- **retrieve total number of order placed**
```
SELECT
COUNT(order_id) AS total_orders
FROM
 orders;
```

-- **calculate total revenue generated from pizza sales**
```
SELECT
   ROUND(SUM(order_details.quantity * pizzas.price), 2) AS Total_Revenue
FROM
   order_details
     JOIN
   pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

-- **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;
```

-- **identify the most common pizza size ordered**
```
select pizzas.size, count(order_details.order_details_id)
from pizzas join order_details
on pizzas.pizza_id = order_details.pizza_id
group by pizzas.size;
```

-- **list the top 5 most ordered pizza types with quantities**
```
select pizza_types.name,
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.name order by quantity desc limit 5;
```

-- **find the total qty of each pizza category ordered**
```
select pizza_types.category,
count(order_details.quantity) as qty_ordered
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 qty_ordered desc;
```

```sql
-- distribution of orders by hour of the day
SELECT
    COUNT(order_id), HOUR(order_time)
FROM
    orders
GROUP BY HOUR(order_time);


-- find the category-wise 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 per day.
SELECT
    ROUND(AVG(quantity), 0) as avg_pizzas_ordered_per_day
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 ordered_quantity;


    -- top 3 most ordered pizza types based on revenue
select pizza_types.name, sum(order_details.quantity * pizzas.price) as revenue
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 revenue desc limit 3;


-- calculate percentage contributon of each pizza type to total revenue
select pizza_types.category,
round(sum(order_details.quantity*pizzas.price) / (select
round(sum(order_details.quantity * pizzas.price),2) as total_sales
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id)*100,2) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category order by revenue desc;
```