SQL For Data Analysis

Q1. **Retrieve the total number of orders placed.**

```
SELECT
  COUNT(order_id) as total_number
FROM
  orders;
```

Ans:

#	total_number
1	60

Q2. **Calculate the total revenue generated from pizza sales.**

```
SELECT
  sum(
    order_details.quantity * pizzas.price
  ) AS total_revenue
FROM
  order_details
  JOIN pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Ans:

#	total_revenue
1	569.5

Q3. **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;
```

Ans:

#	name	price
1	The Barbecue Chicken Pizza	20.75

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Q4. **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;
```

Ans:

#	size	COUNT(order_details.order_details_id)
1	L	15
2	M	10
3	S	8

Q5. **List the top 5 most ordered pizza types along with their quantities.pizzas.**

```
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;
```

Ans:

#	name	quantity
1	The Italian Supreme Pizza	8
2	The Italian Capocollo Pizza	4
3	The California Chicken Pizza	4
4	The Barbecue Chicken Pizza	3
5	The Classic Deluxe Pizza	2

SQL For Data Analysis

Q6. **Determine the distribution of orders by hour of the day.**

```
SELECT
  hour(order_time) AS hour,
  COUNT(order_id) AS order_count
FROM
  orders
GROUP BY
  hour (order_time);
```

Ans:

#	hour	order_count
1	11	2
2	12	7
3	13	10
4	14	7
5	15	7

Q7: **Join relevant tables to find the category-wise distribution of pizzas.**

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

Ans:

#	category	COUNT(NAME)
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

SQL For Data Analysis

Q8. **Group the orders by date and calculate the average number of pizzas ordered per day.**

```
SELECT
  orders.order_date,
  SUM(order_details.quantity)
FROM
  orders
  JOIN order_details ON orders.order_id = order_details
      .order_id
GROUP BY
  orders.order_date;
```

Ans:

#	order_date	SUM(order_details.quantity)
1	2015-01-01	61