Assignment: SQL Subqueries, CASE, String Functions, and COALESCE

Question 1. Write an SQL query to find the names of restaurants that have at least one menu item with a price greater than \$10. **Answer 1:**

Question 2. Write an SQL query to retrieve the user names and their corresponding orders where the order total is greater than the average order total for all users.

Answer 2:

```
SELECT
   U.name AS UserName,
   O.order_id AS Order_ID,
   O.total_amount AS TOTAL_AMOUNT
FROM
   User_info U
JOIN
   Orders 0
ON
   U.ID = 0.user_id
WHERE 0.total_amount >
   (
       SELECT
            AVG(OIN.total_amount)
       FROM
           Orders OIN
   );
```

https://md2pdf.netlify.app 1/3

Question 3. Write an SQL query to list the names of users whose last names start with 'S' or ends with 'e'. **Answer 3**:

```
SELECT

name

FROM

User_info

WHERE

SUBSTRING_INDEX(name, " ", -1) LIKE "S%"

OR

SUBSTRING_INDEX(name, " ", -1) LIKE "%e"

;
```

Question 4. Write an SQL query to find the total order amounts for each restaurant. If a restaurant has no orders, display the restaurant name and a total amount of 0. Use the COALESCE function to handle null values.

Answer 4:

```
SELECT
    R.name AS RestaurantName,
    COALESCE(SUM(0.total_amount),0) AS TOTAL_AMOUNT
FROM
    Restaurant_info R
LEFT JOIN
    Orders 0
ON
    R.restaurant_id = 0.restaurant_id
GROUP BY
    R.name;
```

Question 5. Write a query to find out how many orders were placed using cash or credit.

Answer 5:

```
SELECT
    PT.name AS PaymentMethod,
    COUNT(0.order_id) AS ORDER_COUNT
FROM
    Orders O

JOIN
    Payment_Transactions PTR
ON
    O.order_id = PTR.order_id

JOIN
    Payment_type PT
ON
    PTR.pay_type_id = PT.pay_type_id
```

https://md2pdf.netlify.app 2/3

10/31/23, 10:10 PM GROUP BY PT.name; md2pdf - Markdown to PDF

https://md2pdf.netlify.app 3/3