# 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.

#### Solution:

```
SELECT R.NAME

FROM RESTAURANT_INFO R

JOIN MENUITEMS M

ON R.RESTAURANT_ID = M.RESTAURANT_ID

WHERE PRICE>10

GROUP BY R.NAME

ORDER BY R.NAME ASC;
```

### 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.

#### Solution:

```
SELECT U.NAME AS USER_NAME, O.TOTAL_AMOUNT AS TOTAL

FROM USER_INFO U

JOIN ORDERS O

ON U.ID = O.USER_ID

WHERE O.TOTAL_AMOUNT >

(

SELECT AVG(TOTAL_AMOUNT) FROM ORDERS
)

:
```

#### Question 3:

Write an SQL query to list the names of users whose last names start with 'S' or ends with 'e'

#### **Solution:**

```
FROM
(

SELECT

SUBSTRING_INDEX(NAME, ' ', -1) AS last_name
FROM USER_INFO
) as LAST

WHERE

LAST_NAME LIKE 'S%' OR LAST_NAME 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.

#### **Solution:**

```
SELECT R.NAME AS NAME, SUM(COALESCE(O.TOTAL_AMOUNT,0)) AS PRICE FROM ORDERS O

JOIN RESTAURANT_INFO R

ON

O.RESTAURANT_ID = R.RESTAURANT_ID

GROUP BY 1

;
```

# Question 5:

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

## **Solution:**

```
SELECT PAYMENT_TYPE, COUNT(*) TOTAL_ORDERS
FROM

(

SELECT P.PAY_TYPE_ID, T.NAME AS PAYMENT_TYPE
FROM PAYMENT_TRANSACTIONS P

JOIN PAYMENT_TYPE T

ON P.PAY_TYPE_ID = T.PAY_TYPE_ID

) B

GROUP BY 1

.
```