**Assignment: Application of Window Functions and SELF JOIN**

Analyzing Sales Data using Window Functions and SQL Joins in Oracle SQL

\*\*Assignment Description\*\*:

The purpose of this assignment is to provide practical exposure to window functions and SQL joins in Oracle SQL. You will be working with sales data to perform various analysis tasks.

\*\*Task\*\*:

Consider a table called `sales` that contains the following columns:

- `order\_id` (integer): unique identifier for each order.

- `product\_id` (integer): unique identifier for each product.

- `customer\_id` (integer): unique identifier for each customer.

- `order\_date` (date): date when the order was placed.

- `quantity` (integer): quantity of the product ordered.

- `price` (numeric): price per unit of the product.

1. Use a SQL join to retrieve the order details along with the customer information for each order.

2. Write a query to calculate the total sales amount (`total\_amount`) for each order by multiplying the `quantity` and `price` columns.

3. Use a window function to calculate the average order amount (`avg\_order\_amount`) for each customer, considering all their orders.

4. Write a query to find the top 5 customers with the highest average order amount.

5. Calculate the cumulative sum of the total sales amount (`cumulative\_sales`) for each order, starting from the first order.

\*\*Deliverables\*\*:

1. `sales\_analysis.sql` - The SQL script containing the queries to accomplish the tasks mentioned above.

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\*\*Solution\*\*:

The solution can be found at the following link: www.jobreadyprogrammer.com/p/oracle-sql-udemy-assignment

Happy Coding!