

SQL Aggregation & Window Functions Assignment

Instructions:

Use the provided table and data below. Write SQL queries to answer the questions. Do not modify the data.

Table Schema:

```
CREATE TABLE orders (  
  order_id INT,  
  customer VARCHAR(20),  
  region VARCHAR(10),  
  amount INT  
);
```

Seed Data:

order_id	customer	region	amount
1	C1	North	500
2	C2	North	700
3	C3	North	700
4	C4	South	300
5	C5	South	600
6	C6	South	900
7	C7	East	400
8	C8	East	400
9	C9	West	800
10	C10	West	1000

Questions:

1. Find the total order amount.
2. Find the average order amount.
3. Find the minimum and maximum order amount.
4. Find the total number of orders.
5. Find the total order amount per region.
6. Find the average order amount per region.
7. Find the number of orders per region.
8. Find the minimum order amount per region.
9. Find the maximum order amount per region.
10. Assign ROW_NUMBER to orders based on amount (ascending).
11. Assign RANK to orders based on amount (descending).
12. Assign DENSE_RANK to orders based on amount (descending).
13. Assign ROW_NUMBER per region ordered by amount (ascending).

14. Assign RANK per region ordered by amount (descending).
15. Assign DENSE_RANK per region ordered by amount (descending).

Seed Inserts (for reference):

```
INSERT INTO orders VALUES
```

```
(1, 'C1', 'North', 500),  
(2, 'C2', 'North', 700),  
(3, 'C3', 'North', 700),  
(4, 'C4', 'South', 300),  
(5, 'C5', 'South', 600),  
(6, 'C6', 'South', 900),  
(7, 'C7', 'East', 400),  
(8, 'C8', 'East', 400),  
(9, 'C9', 'West', 800),  
(10, 'C10', 'West', 1000);
```