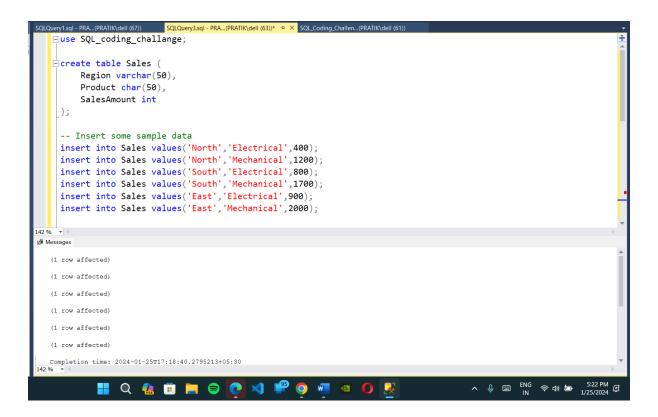
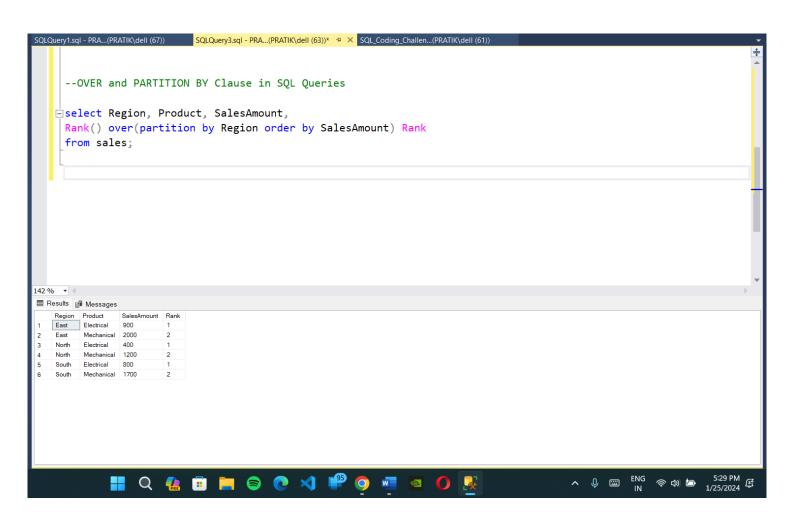
SQL Coding Challenge 1

- Database Information:
 - Created Database name as SQL_coding_challange
 - Created one tables: Sales



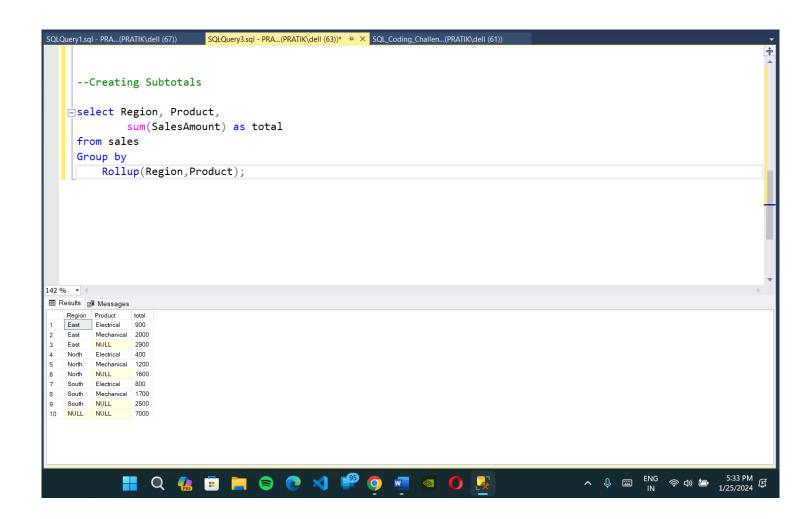
Over and Partition by:

- The OVER clause use to specifies the rows over which a window function.
- It can include both the PARTITION BY clause and the ORDER BY clause.
- PARTITION BY clause is used to divide the result set into groups based on some column
- As here we are dividing the result according to there region.
- Here also use RANK() function to give each row specific rank according to region and sales.
- Here It is partition by Region and order by sales amount
- So Rank 1 is for East region and Electrical product.



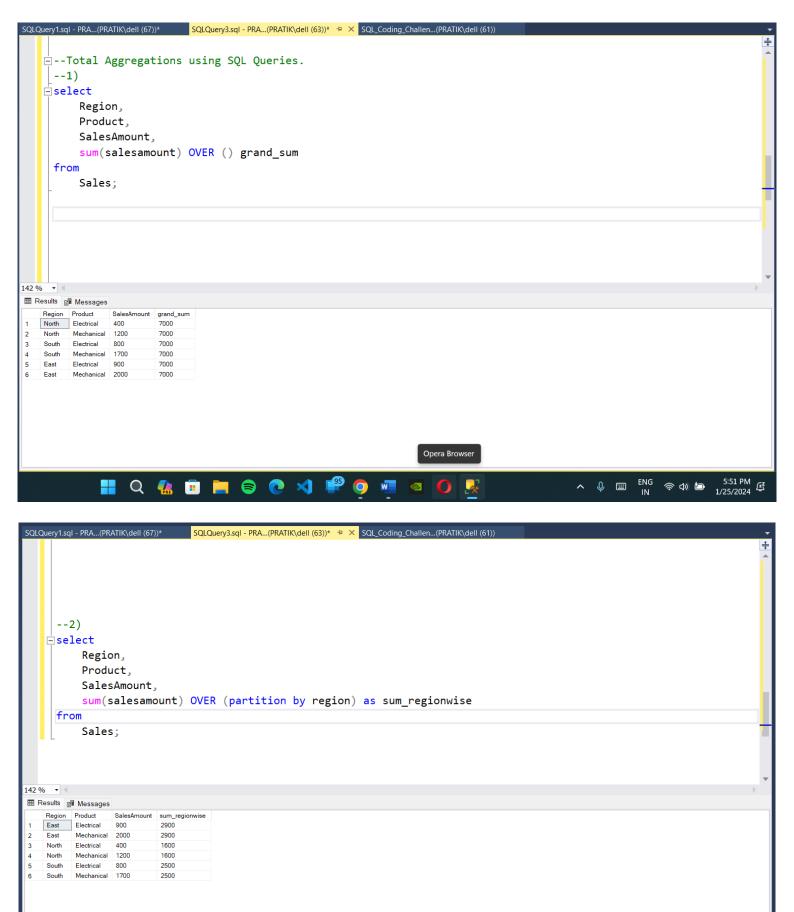
Creating Subtotals:

- o To create the subtotals we need Group by Rollup.
- Subtotals is sum for Specific sections
- Here in these query Subtotal is created for Region wise and Product wise
- o For East Region subtotal = 2900
- o For North Region subtotal = 1600
- For South Region subtotal = <u>2500</u>
- At the end we will also got the grand total as <u>7000.</u>



Total Aggregations using SQL Queries:

- When we use aggregations on the over() and order by clause we called it as total aggregation.
- o We can also use aggregations by partitioning the result set
- If we didn't use partition by then aggregation is applied on whole set.
- Here In 1st example sum() is applied on whole set and we got the aggregation for whole result set which comes <u>7000</u>
- In 2nd example sum() is applied by making partition according to the region so got sum for specific regions
- For East Region subtotal = 2900
- For North Region subtotal = 1600
- For South Region subtotal = <u>2500</u>



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