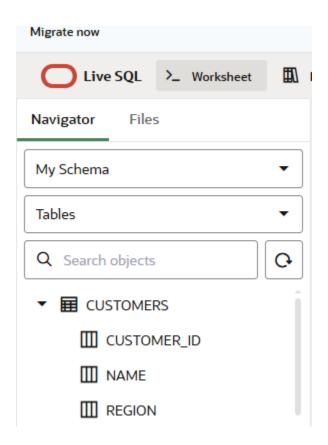
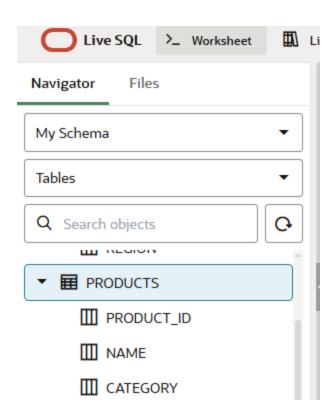
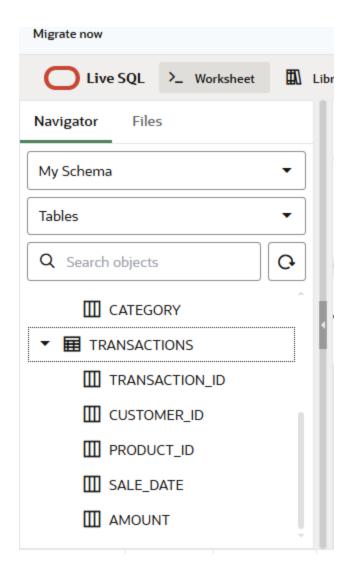
Step 4: Window Functions Implementation

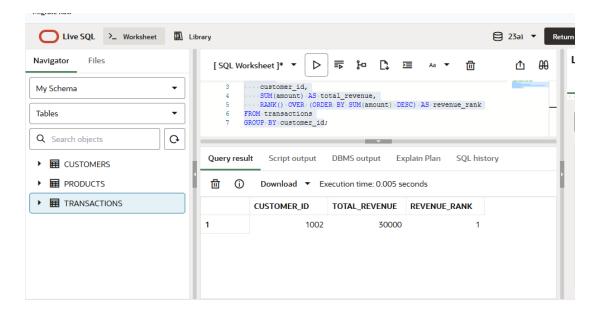






1. Ranking Functions - RANK(), ROW_NUMBER(), DENSE_RANK(), PERCENT RANK()

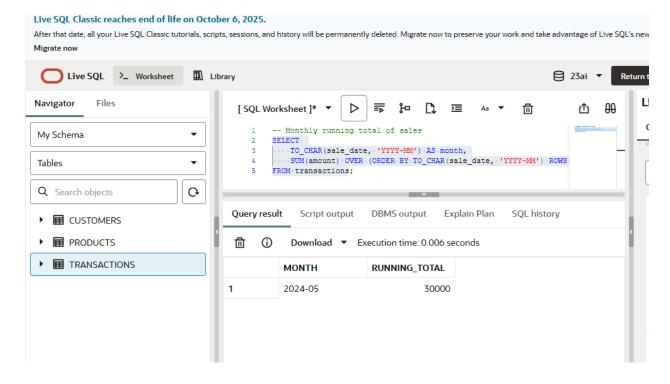
Use Case: Find the top 5 customers by total revenue



Interpretation: This query ranks customers based on how much they spent. You can identify your top 5 spenders and see how they compare.

2. Aggregate Functions – SUM(), AVG(), MIN(), MAX() with ROWS BETWEEN

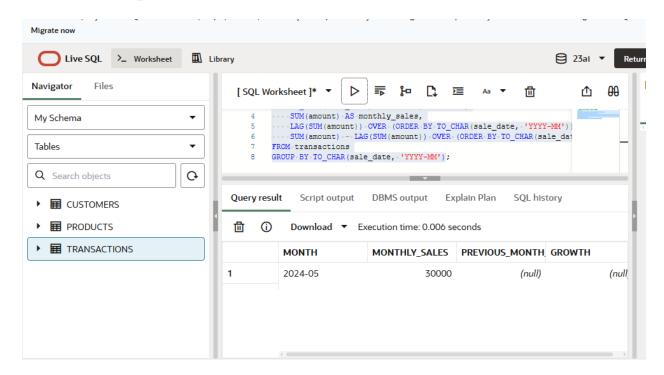
Use Case: Calculate running monthly sales totals.



Interpretation: This shows how sales accumulate month by month, helping you spot growth trends or slow periods.

3. Navigation Functions - LAG(), LEAD()

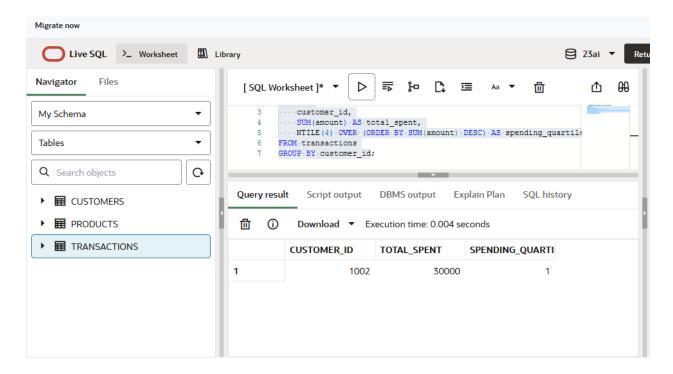
Use Case: Compare sales from one month to the next.



Interpretation: This shows how much sales increased or decreased compared to the previous month.

4. Distribution Functions - NTILE (4), CUME_DIST()

Use Case: Segment customers into quartiles based on spending.



Interpretation: This divides customers into four groups. Quartile 1 are the biggest spenders, Quartile 4 are the lowest.