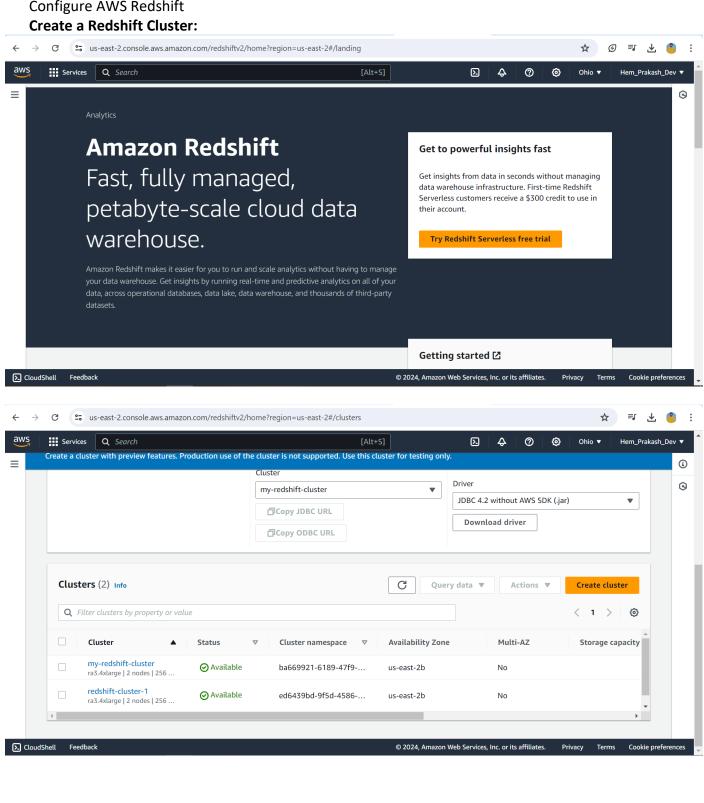
Advanced Data Engineering in Cloud

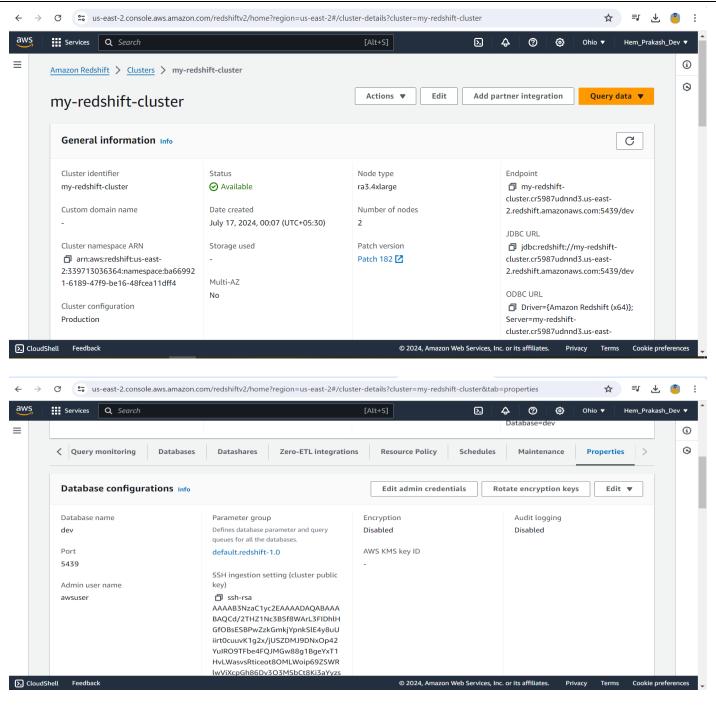
ASSIGNMENT-3

Hem Prakash Dev Roll-G23AI1054

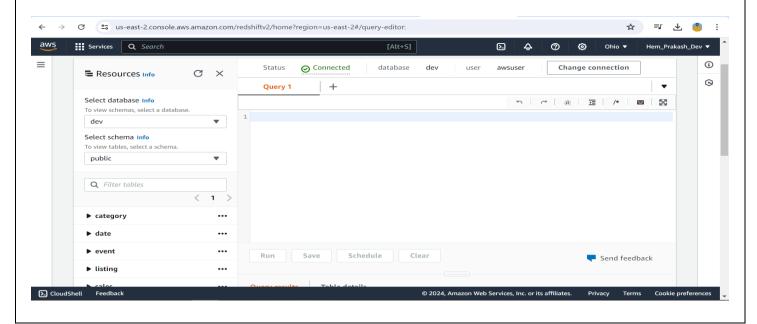
1. Configure AWS Redshift or Amazon Athena to aggregate the processed data and enable fast querying and analysis.

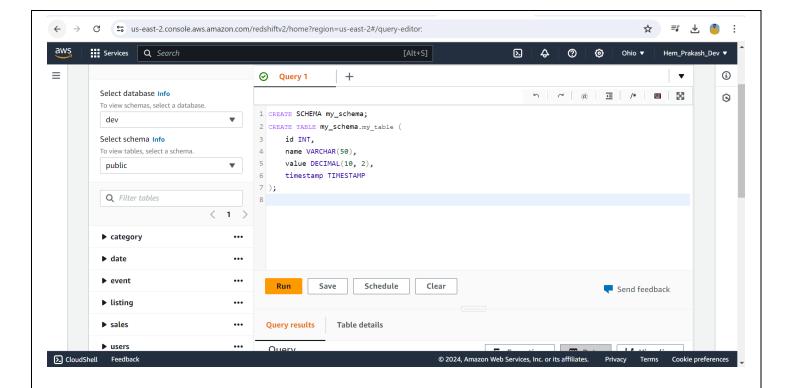
Configure AWS Redshift





Successfully runed the query on Redshift query

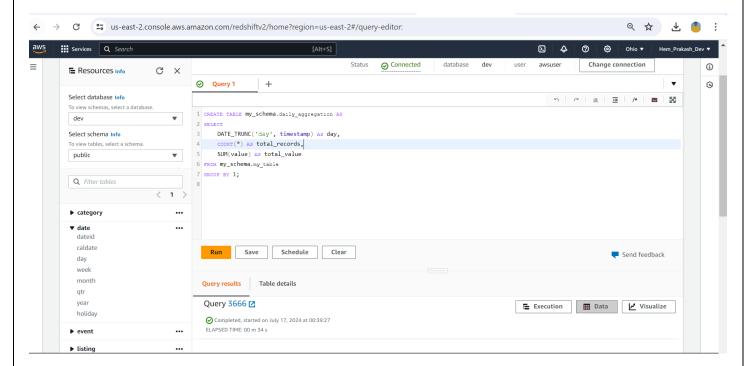




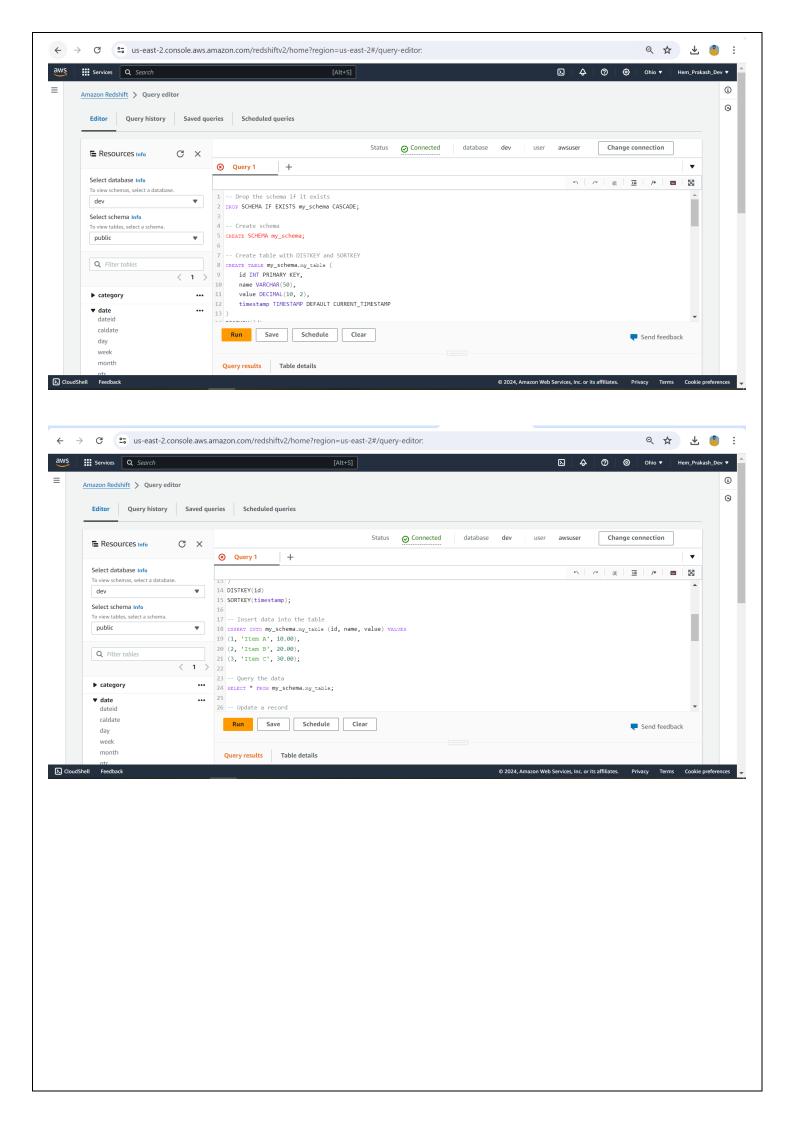
2. Design and implement the data aggregation queries and optimize them for performance.

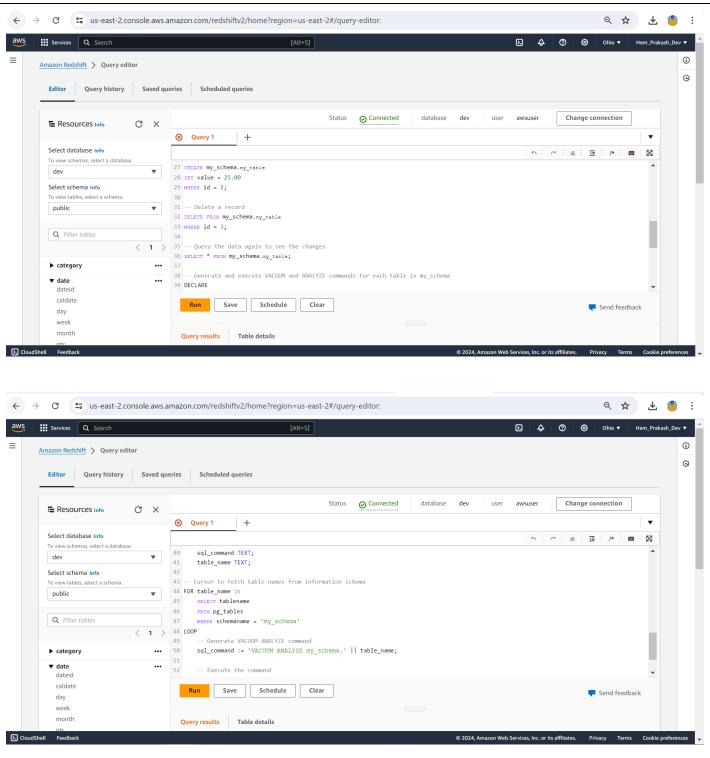
Example Aggregation Queries for Redshift

Daily Aggregation:

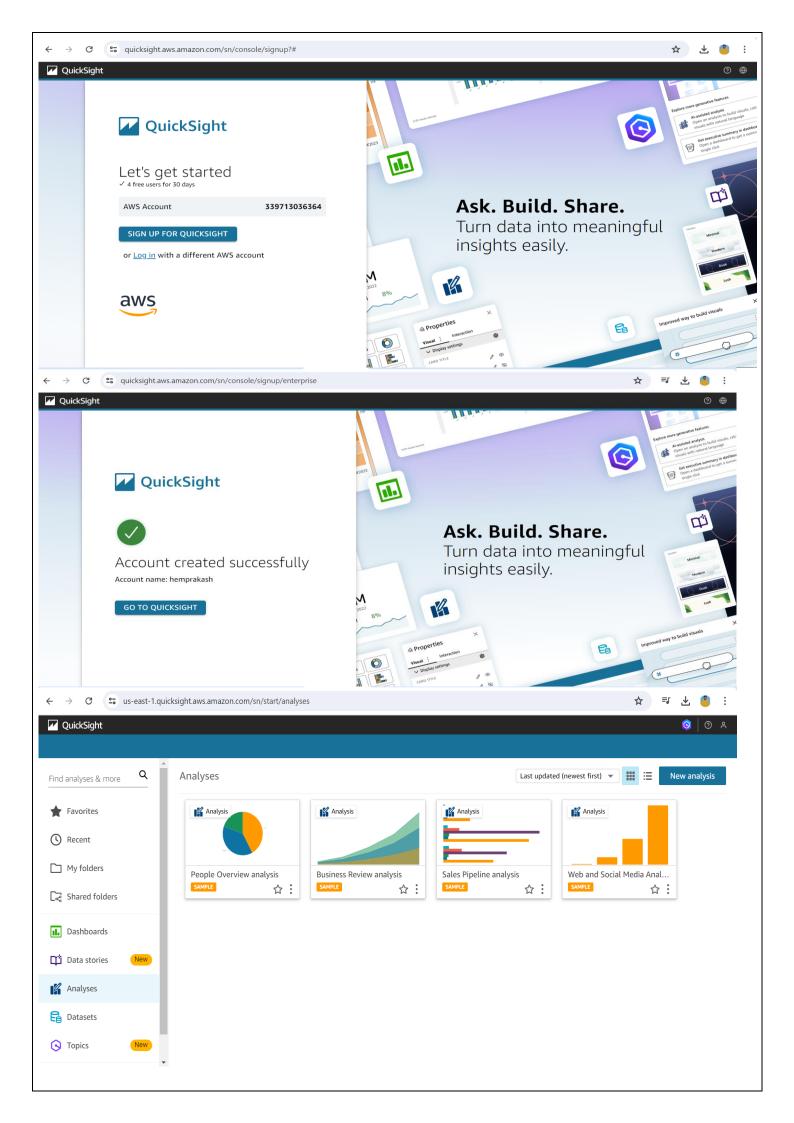


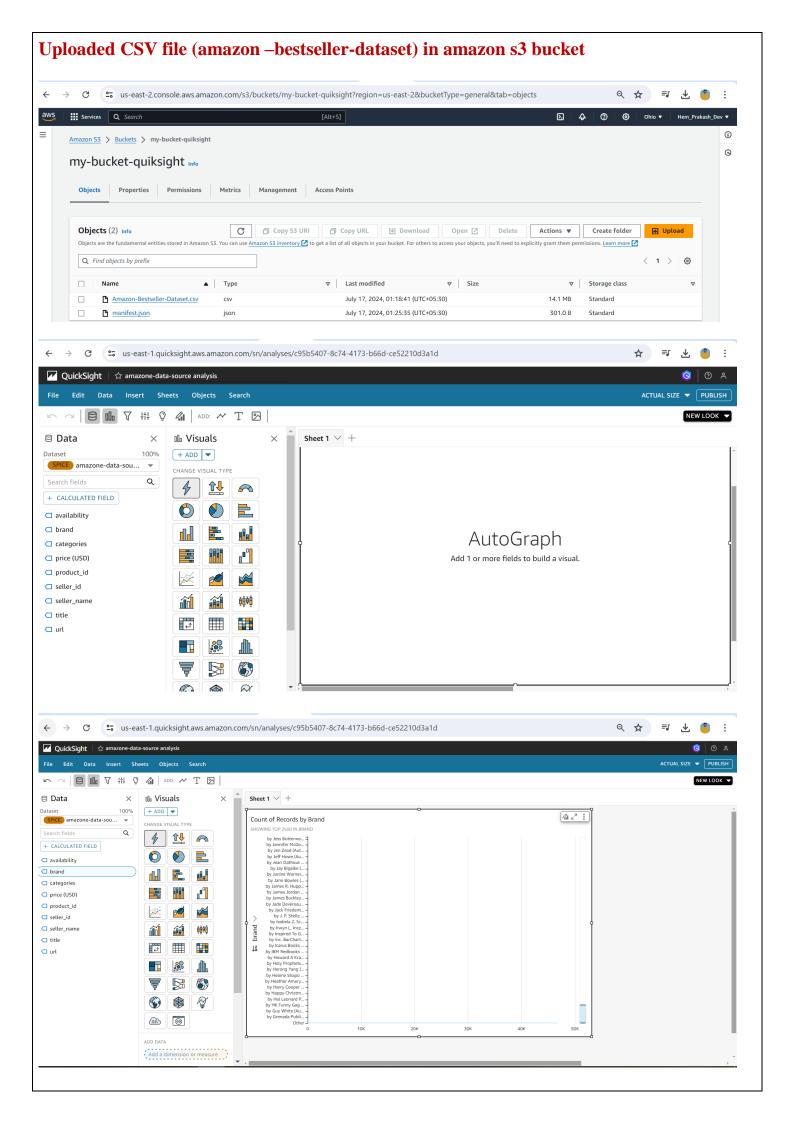
Optimizing queries in a database involves creating appropriate indexes, using **SORTKEY** and **DISTKEY** in databases like Amazon Redshift, and performing regular maintenance like analyzing and vacuuming tables.

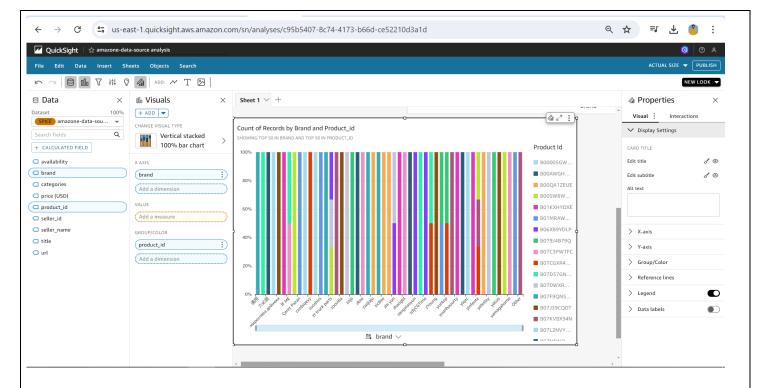




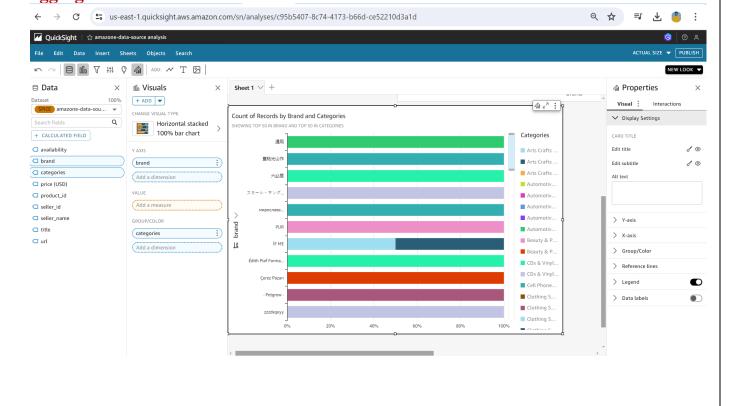
3. Integrate Amazon QuickSight or a third-party BI tool for data visualization.

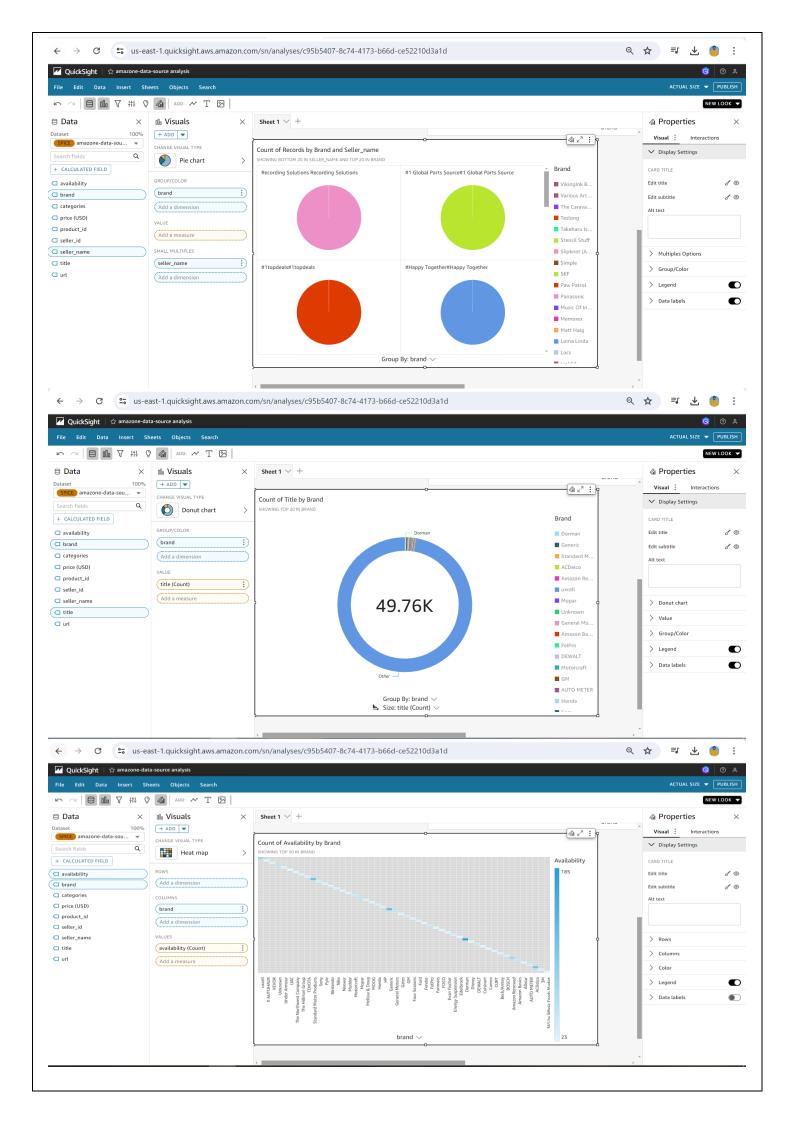






4. Create sample dashboards and reports to showcase the insights derived from the aggregated data.





5. Update the GitHub repository with the code and configuration files f	or data
aggregation and visualization git init	
git remote add origin https://github.com/Hem-Prakash-Dev-Bharad	waj/data-
engineering git add .	
git commit -m ''Initial commit with Redshift setup, aggregation queries, and Q configuration''	uickSight
git push -u origin master	