## **Group Member's Name:-**

## Muhammad Arsalan (2303.KHI.DEG.025) Abdul Rehman (2303.KHI.DEG.035) Arshad Shiwani (2303.KHI.DEG.026)

We made a function with name make\_file, which will read the file and make random salary and date and then save the file, we here required two files, so we loop it twice.

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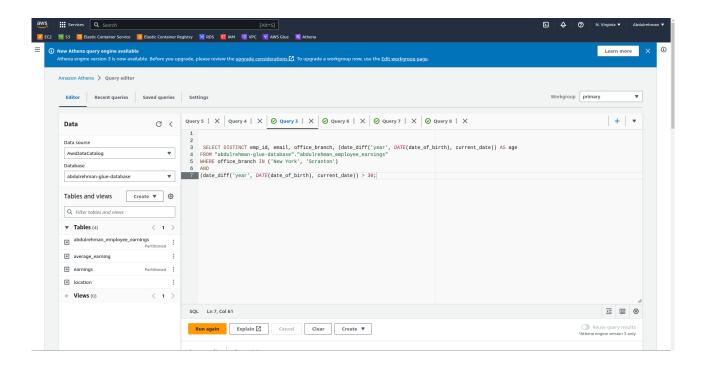
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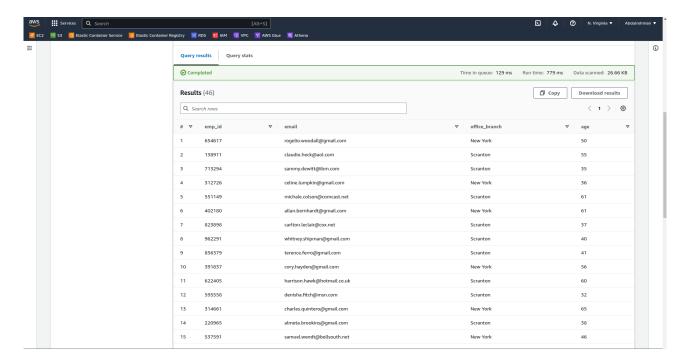
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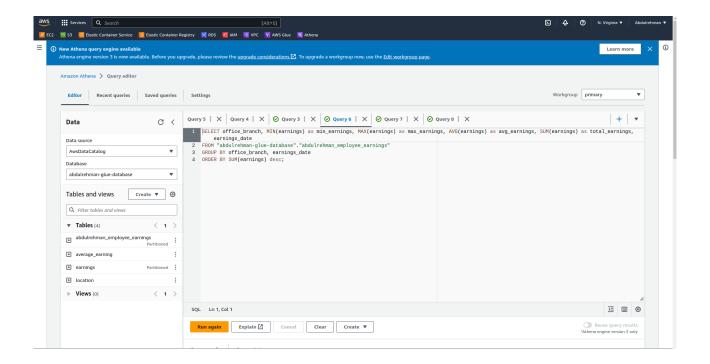
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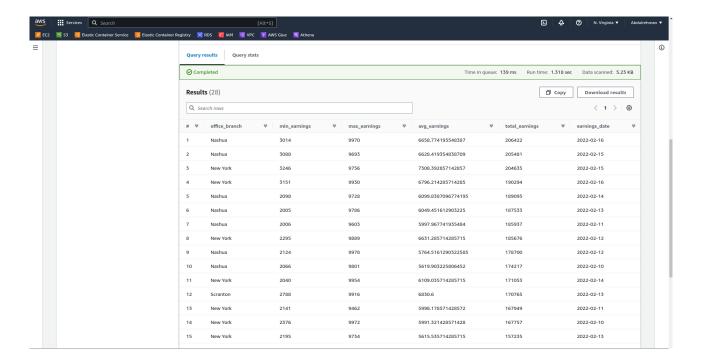
This SQL query retrieves distinct employee IDs, email addresses, office branches, and ages from a table named "abdulrehman\_employee\_earnings" in a database called "abdulrehman-glue-database." The query selects only those employees who work in either the "New York" or "Scranton" office branches and have an age greater than 30.



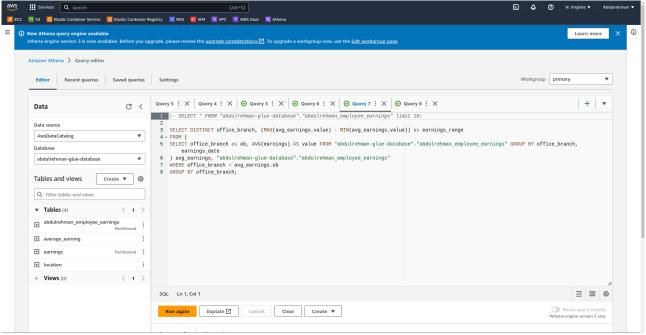


This SQL query retrieves the office branch, minimum earnings, maximum earnings, average earnings, total earnings, and earnings date from the "abdulrehman\_employee\_earnings" table in the "abdulrehman-glue-database" database. The results are grouped by office branch and earnings date. The records are then sorted in descending order based on the sum of earnings.

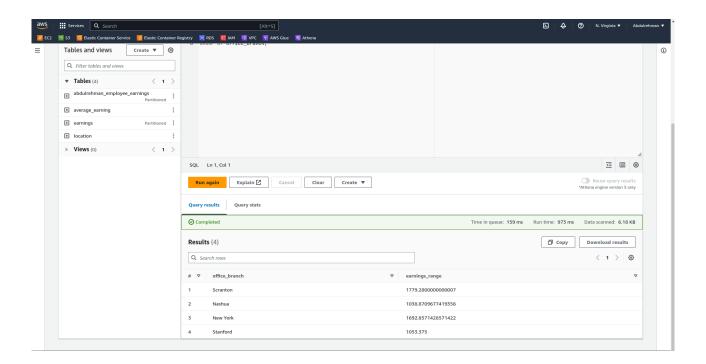




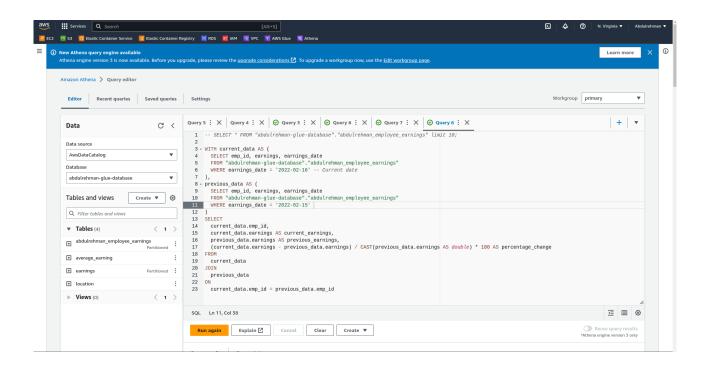
This SQL query calculates the earnings range for each office branch by finding the difference between the maximum and minimum average earnings per branch. The results are grouped by office branch.

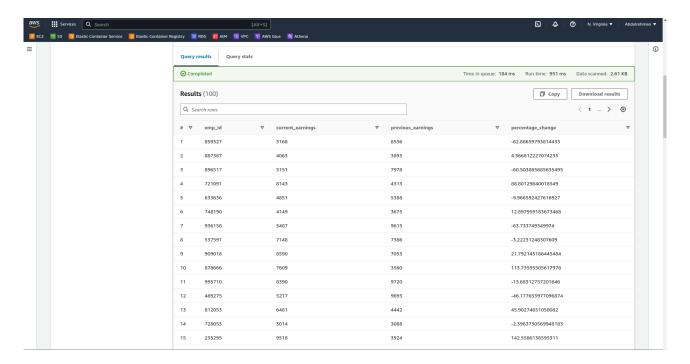


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This SQL query compares employee earnings from two different dates and calculates the percentage change.





In conclusion, S3 is not designed for sophisticated queries because its primary focus is on simple and scalable object storage. You can use tools like Apache Spark or Apache Hive to query data in S3, or you can use AWS Athena or AWS Glue to implement data lake architectures.