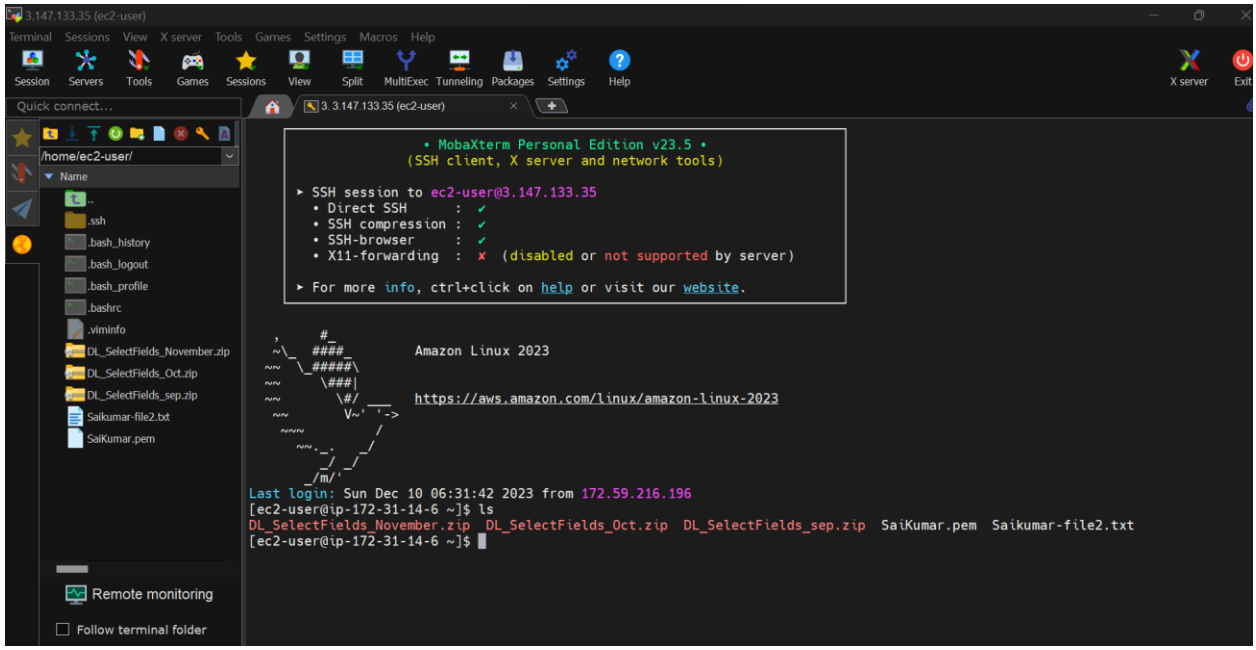
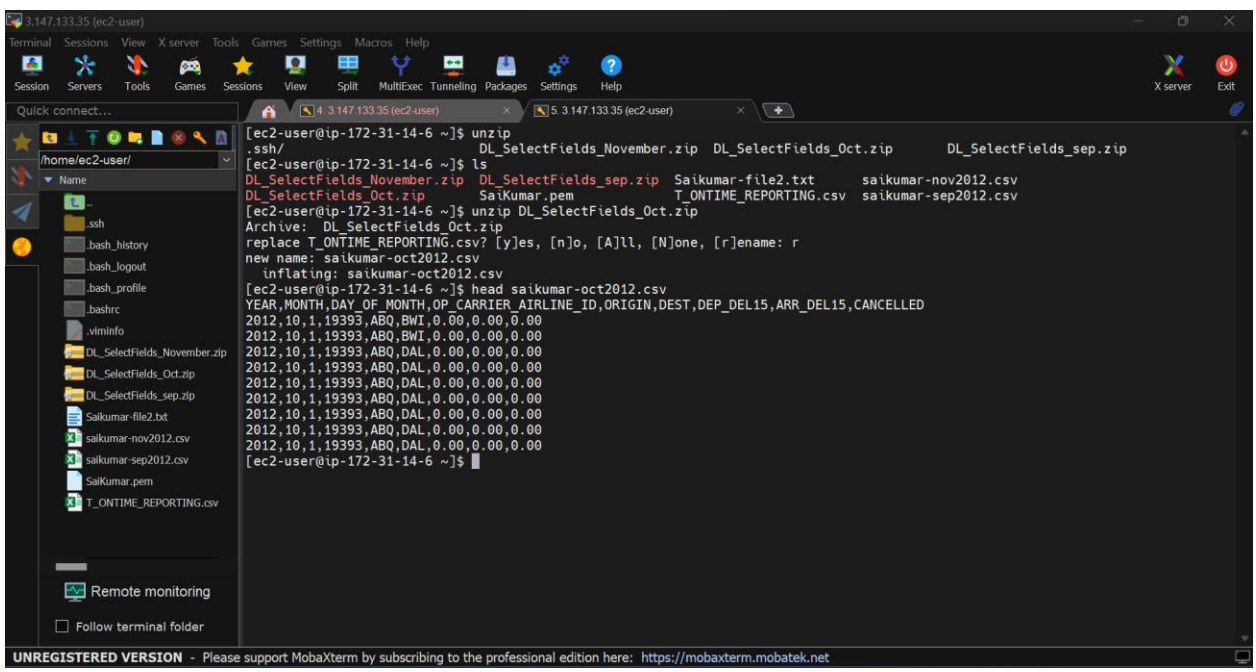
Week 7

Sai Kumar Murarishetti
Student ID: 30079224

1. The file is transfer to the instance.



2. Unzip of file.



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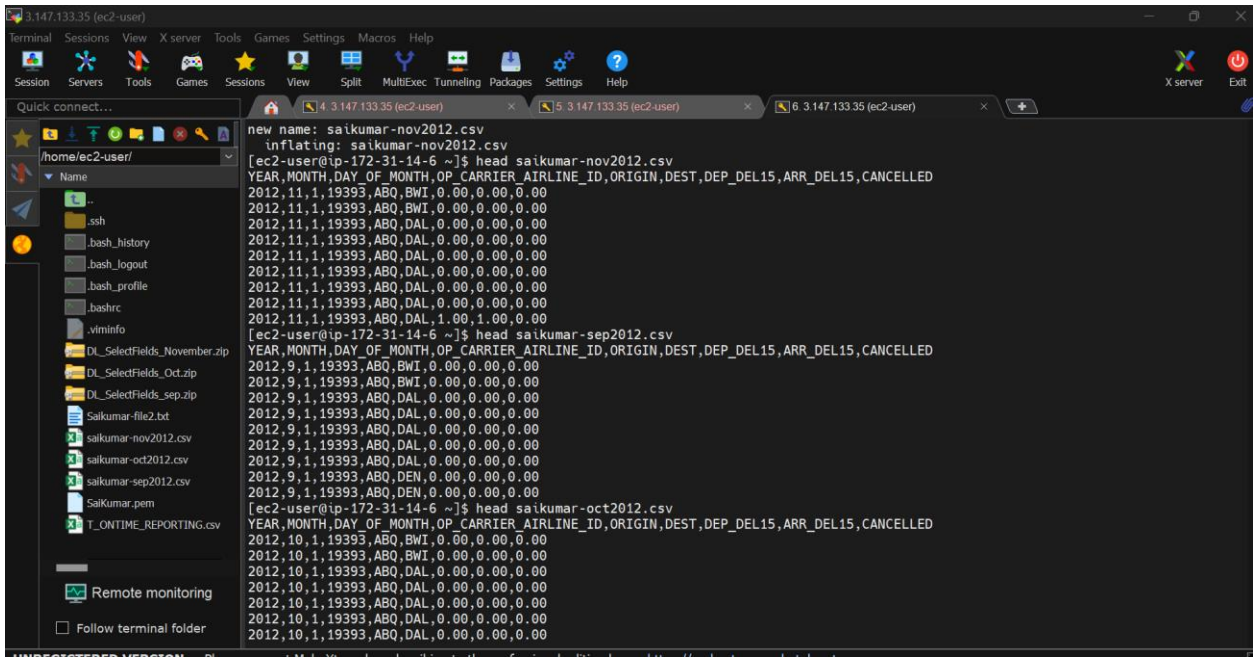
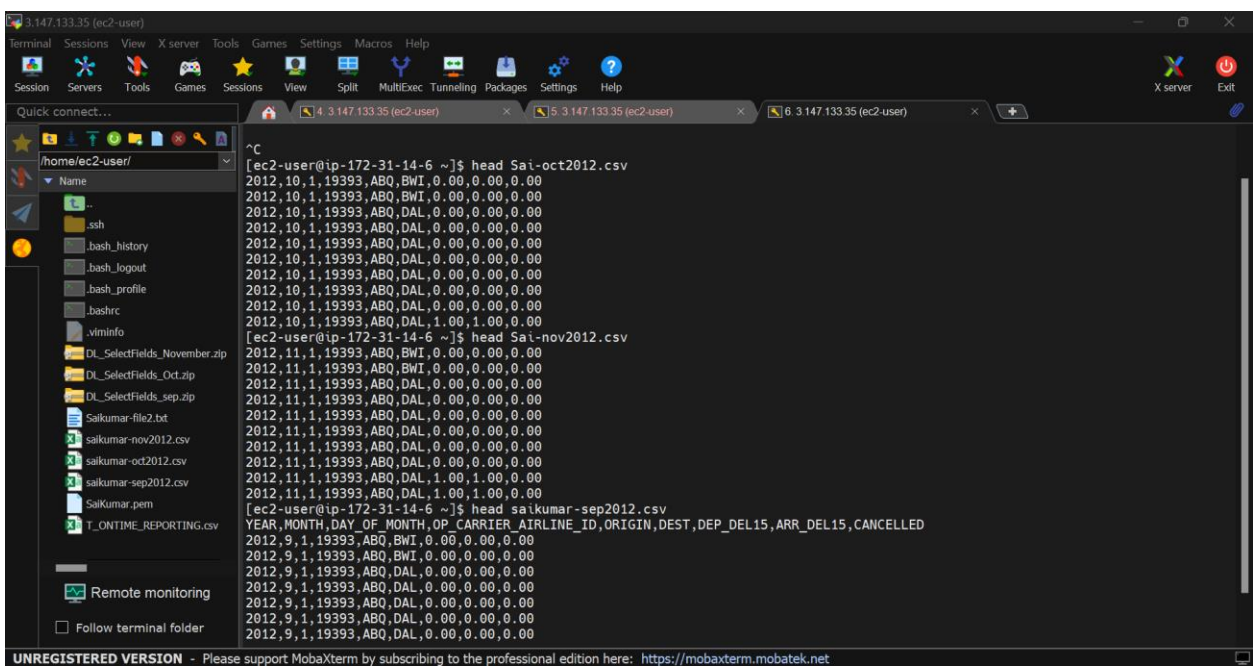
3. The file with head.



4. After removing the header from the 2nd and 3rd file.



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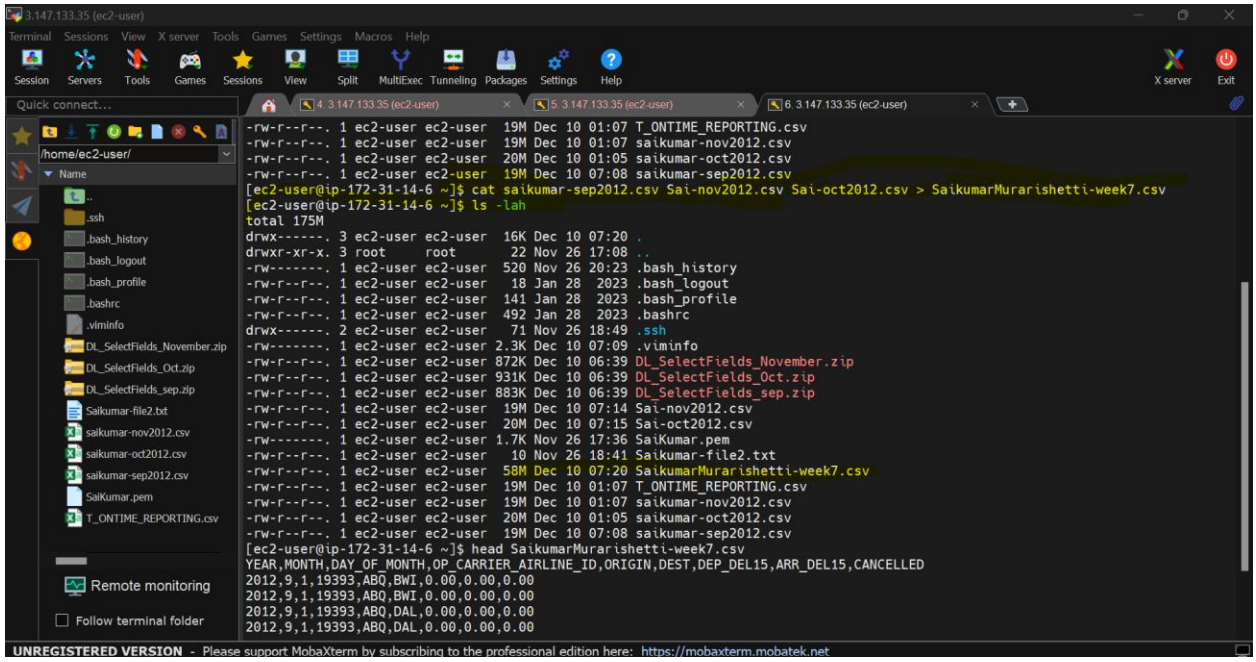
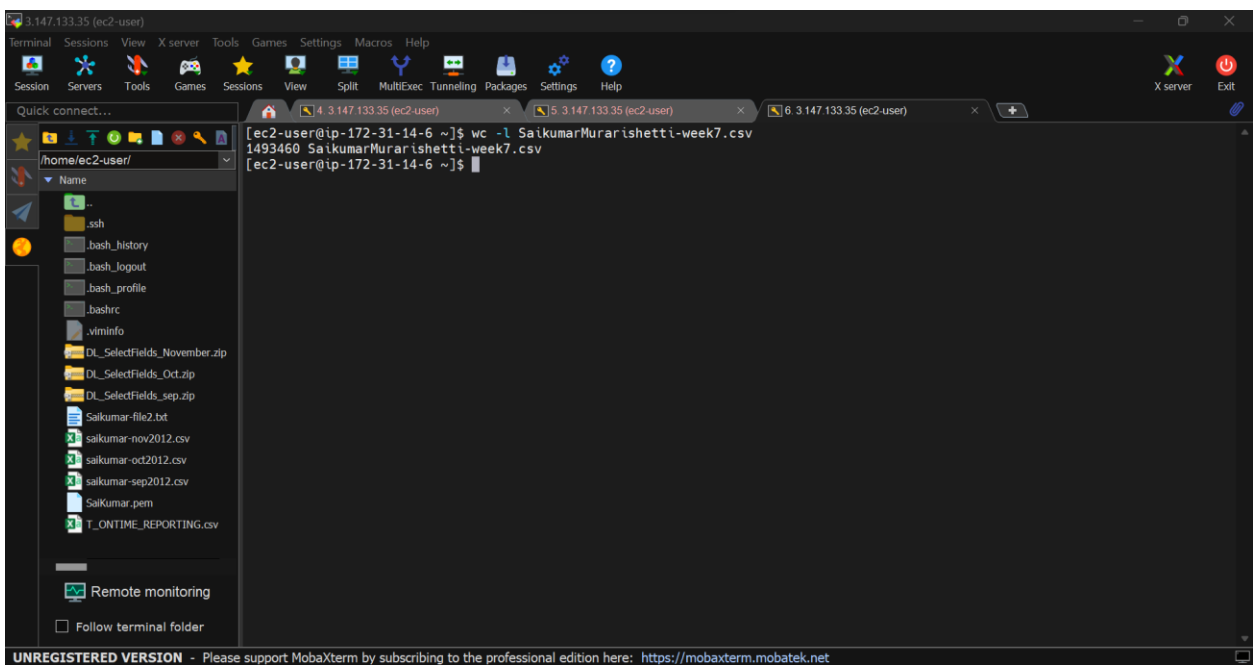
5. Using cat command.



6. The count of line in the file is listed below.



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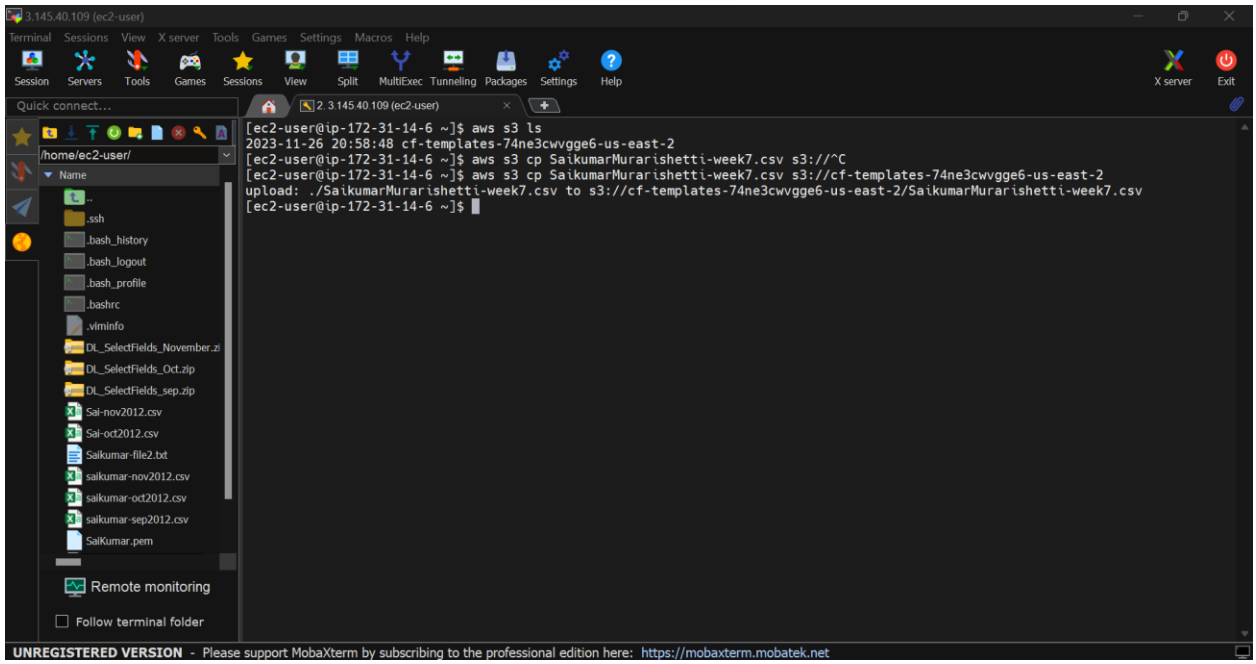
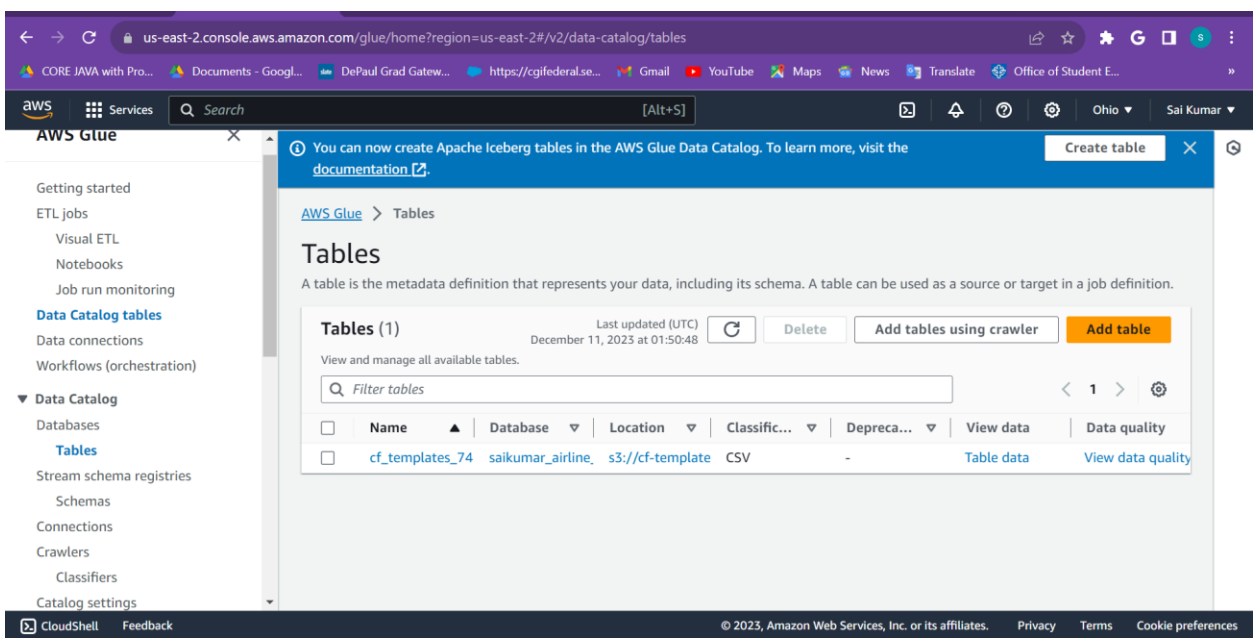
7. Uploaded the file to s3 bucket.



8. Table is created.



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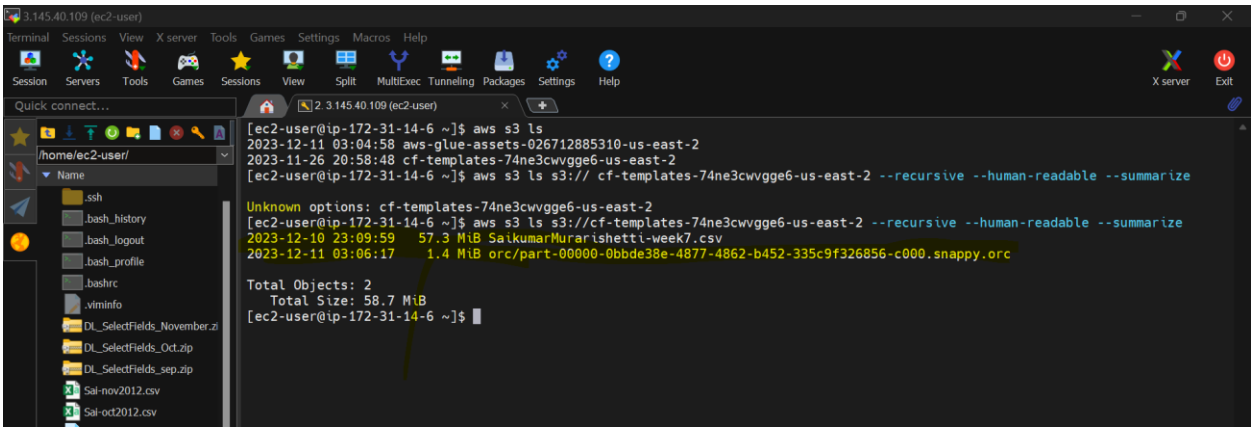
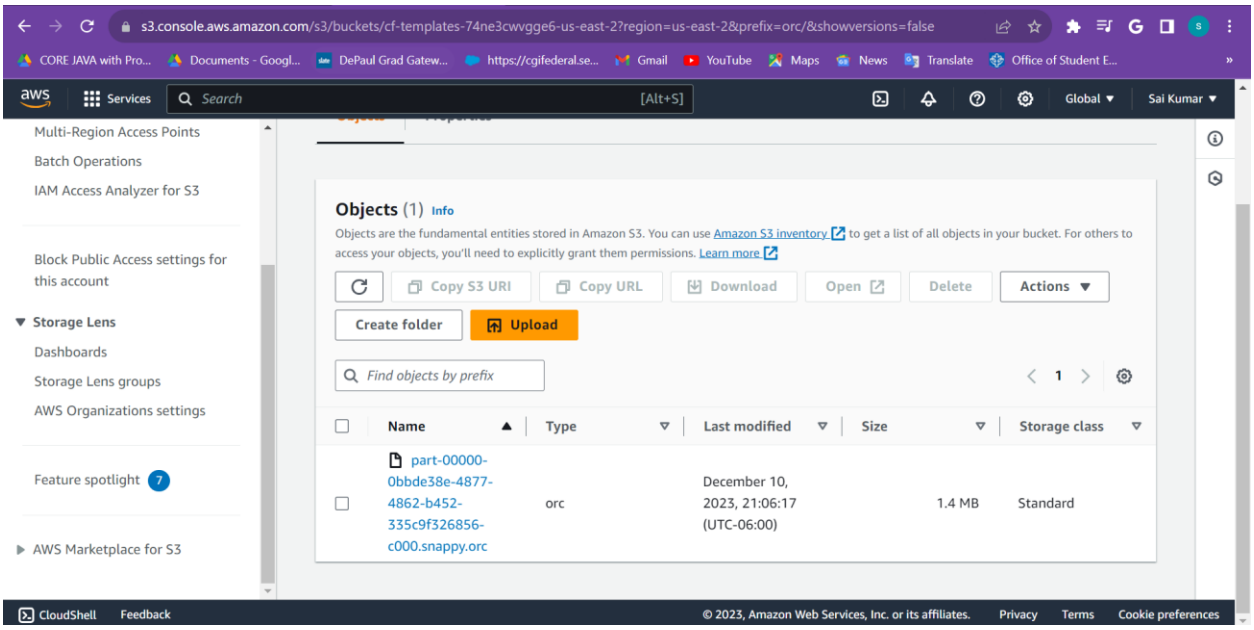
9. CVS to ORC conversion.





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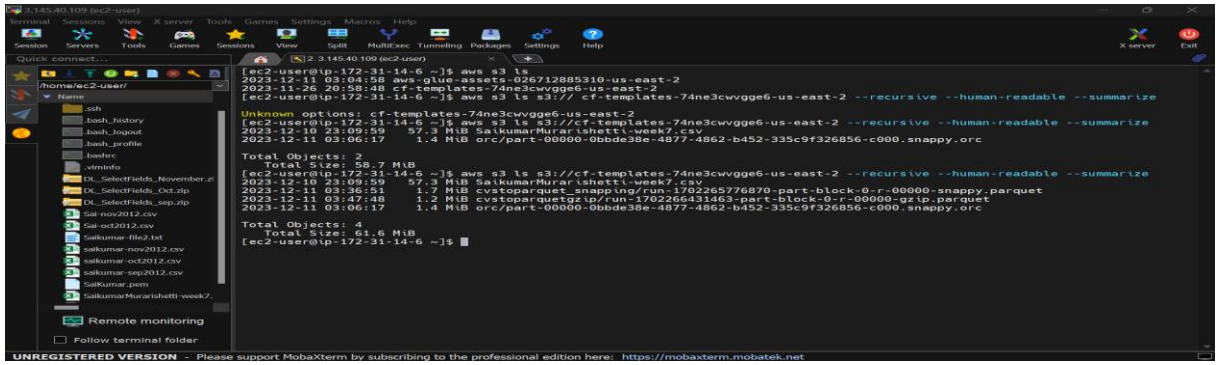
10. CVS to parquete gzip and parquete snappy.



11. **What did you notice about the file sizes?**
    I observed a significant reduction in file sizes after converting the CSV file to different formats. Specifically:

- **CSV**: 57.3 MB
- **ORC**: 1.4 MB
- **Parquet (Snappy Compression)**: 1.7 MB
- **Parquet (Gzip Compression)**: 1.2 MB

This reduction indicates that ORC and Parquet formats, with various compression methods, offer substantial storage efficiency compared to the original CSV format.

What knowledge did you gain after doing this assignment?
Through this assignment, I gained insights into the impact of data formats and compression on storage efficiency. Converting data to optimized formats like ORC and Parquet can significantly reduce storage requirements, which is crucial for efficient data management and cost savings in cloud environments.

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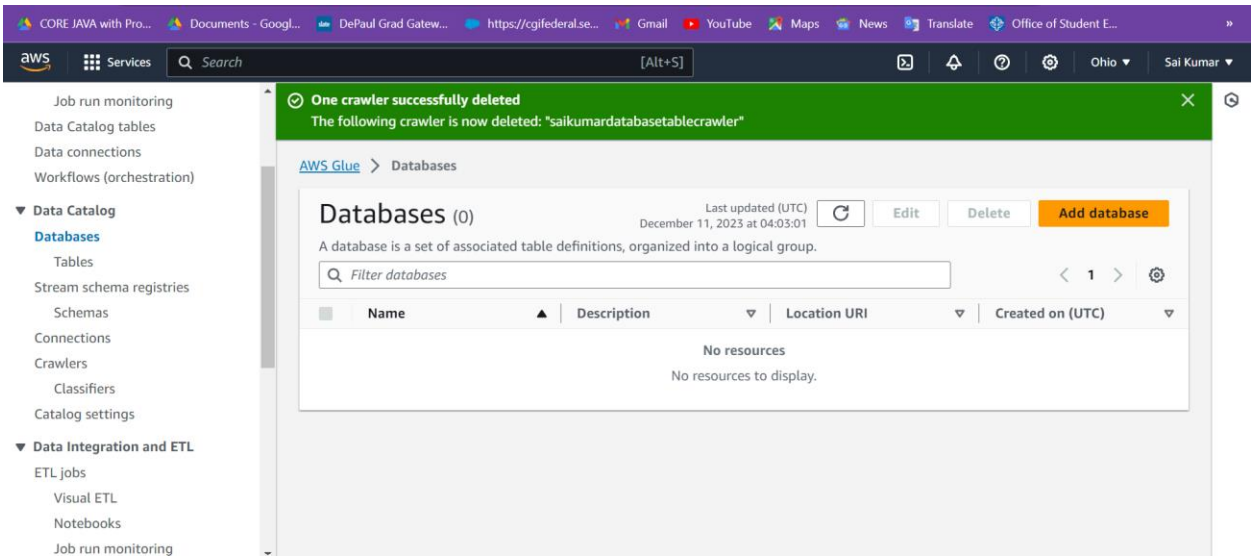
12. Deleted the database and tables.



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13.

Your Name	Sai Kumar Murarishetti
Student ID	30079224
Which option did you use for this assignment? (Glue or Spark)	Glue
Month and Year of the data files	Sept2012, October 2012, November 2012
Number of lines in the combined CSV file	1493460
Size of the combined CSV file	57.3
For Option #1 (AWS Glue)	
Size of the **Parquet** file with **snappy** compression	1.7MB
Size of the ORC file with **snappy** compression	1.4MB
Size of the **Parquet** file with **gzip** compression	1.2MB