**Cloud computing (ITCS-6190) Project Deliverable 2**

**Group No: 9**

**Team members:**

Anudeep Billa

Aasish Chunduri

Govind Rahul Mathamsetti

Neethika Reddy Arepally

Lavanya Krishnan

**Query1:**

Correlation between Age and Mental Health Indicators: Analyze the correlation between age and mental health indicators such as anxiety, depression, and insomnia. This query can help in understanding if certain age groups are more prone to these mental health issues and their relation to music listening habits.

**SELECT Age, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia**

**FROM "ccdadatabase"."ccdaproject"**

**GROUP BY Age**

**ORDER BY Age;**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Query 2:**

Music Genre Preferences and Mental Health: Investigate if there's a pattern in the preferred music genres of individuals with high levels of anxiety, depression, or insomnia.

**SELECT Fav\_genre, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia FROM "ccdadatabase"."ccdaproject"**

**GROUP BY Fav\_genre**

**ORDER BY Average\_Anxiety DESC, Average\_Depression DESC, Average\_Insomnia DESC;**

A screenshot of a computer

Description automatically generated

Query 3:

Streaming Service Usage and Mental Health Impact: Evaluate how different streaming services are used by individuals with varying levels of mental health issues.

**SELECT Primary\_streaming\_service, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia**

**FROM "ccdadatabase"."ccdaproject"**

**GROUP BY Primary\_streaming\_service;**

**A screenshot of a computer

Description automatically generated**

Query 4:

Effect of Music on Mental Health by Age Group: Understand how different age groups perceive the effect of music on their mental health.

**SELECT Age, Music\_effects, COUNT(\*) as Total FROM "ccdadatabase"."ccdaproject" WHERE Music\_effects IS NOT NULL**

**GROUP BY Age, Music\_effects**

**ORDER BY Age, Music\_effects;**

**A screenshot of a computer

Description automatically generated**

Query 5:

Frequency of Genre Listening and Mental Health: Analyze the frequency of listening to different music genres and its relation to mental health scores.

**SELECT Fav\_genre, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia**

**FROM "ccdadatabase"."ccdaproject"**

**GROUP BY Fav\_genre;**

A screenshot of a computer

Description automatically generated

Query 6:

Comparison of Mental Health Indicators Among Instrumentalists and Non-Instrumentalists: Check if being an instrumentalist has any correlation with mental health indicators.

**SELECT Instrumentalist, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia**

**FROM "ccdadatabase"."ccdaproject"**

**GROUP BY Instrumentalist;**

A screenshot of a computer

Description automatically generated

Query 7:

Impact of Foreign Language Songs on Mental Health: Investigate if listening to music in foreign languages has any unique impact on mental health.

**SELECT Foreign\_languages, AVG(Anxiety) as Average\_Anxiety, AVG(Depression) as Average\_Depression, AVG(Insomnia) as Average\_Insomnia**

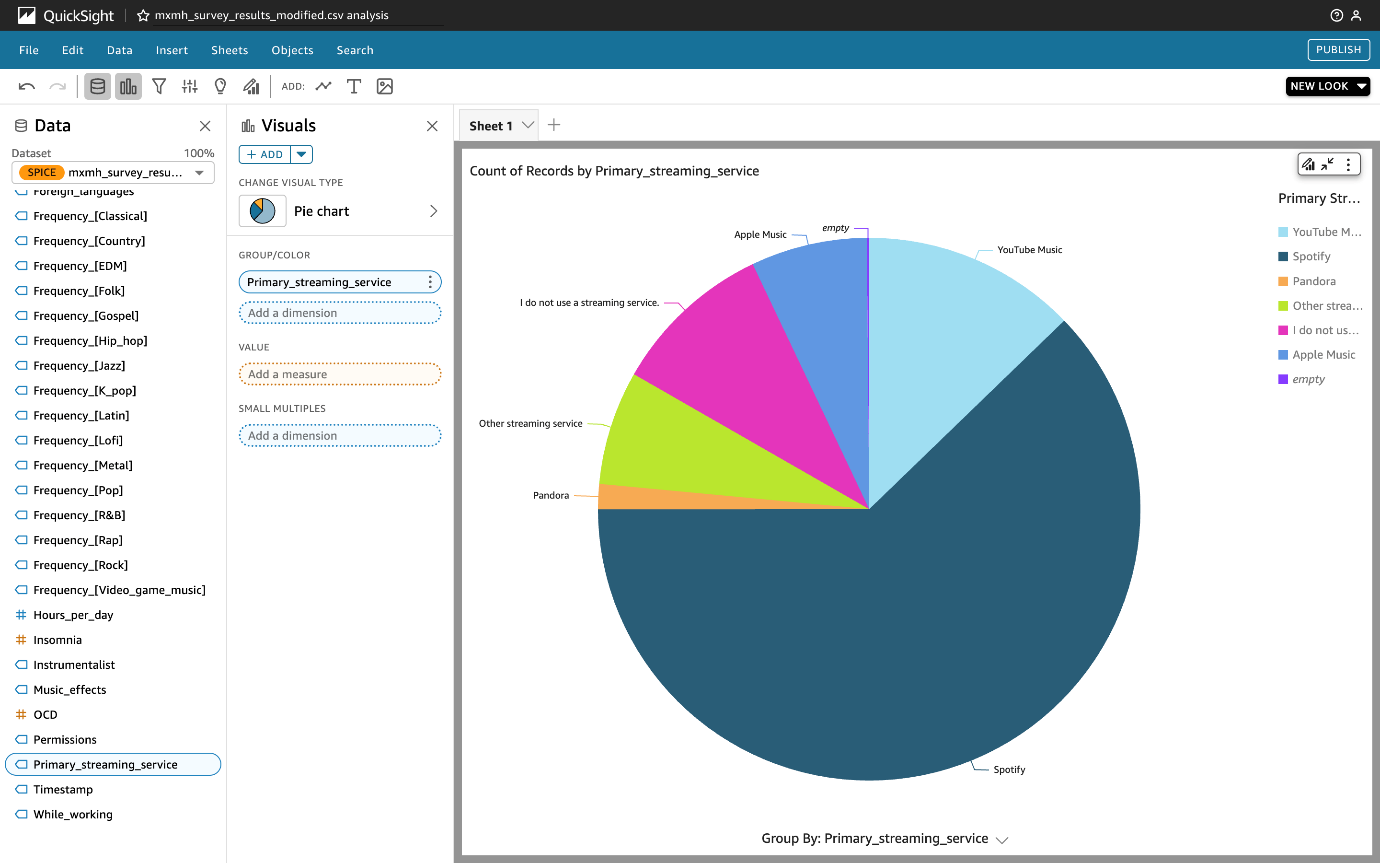
**FROM "ccdadatabase"."ccdaproject"**

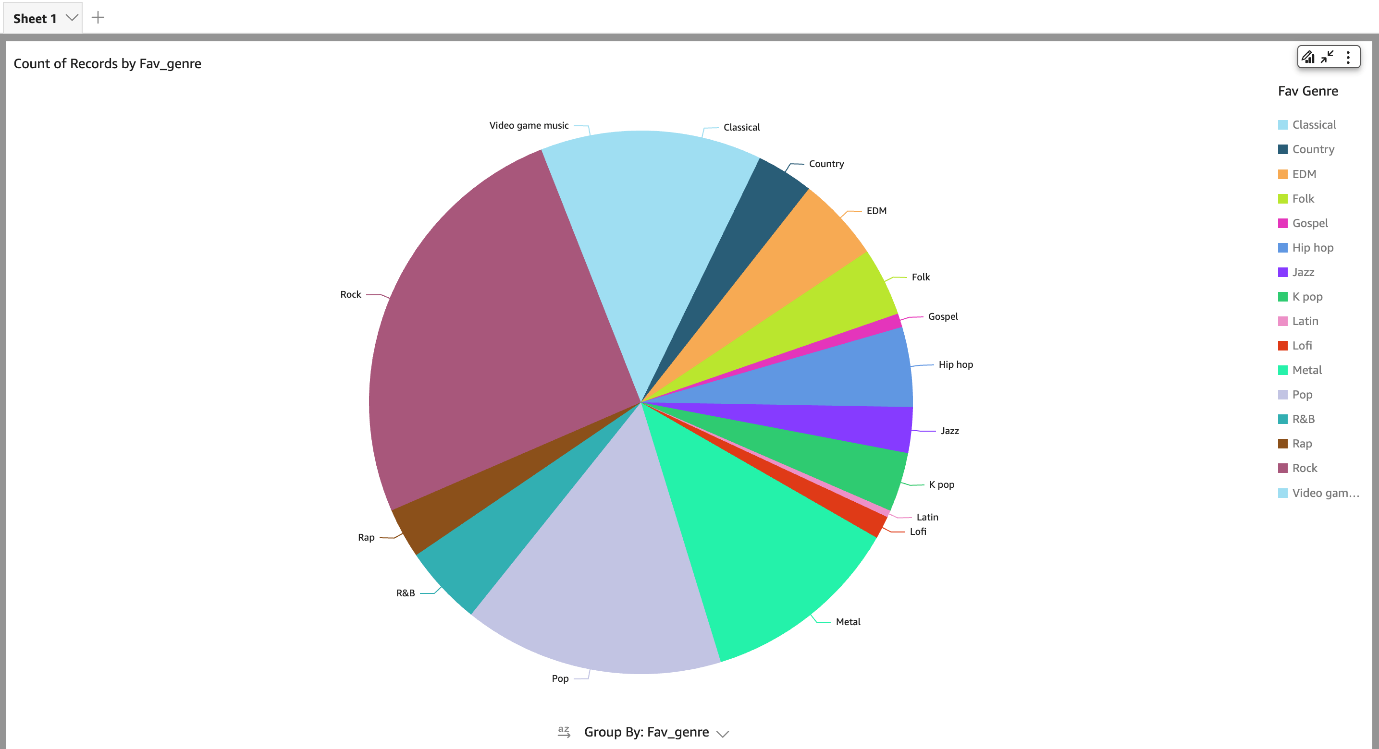
**GROUP BY Foreign\_languages;**

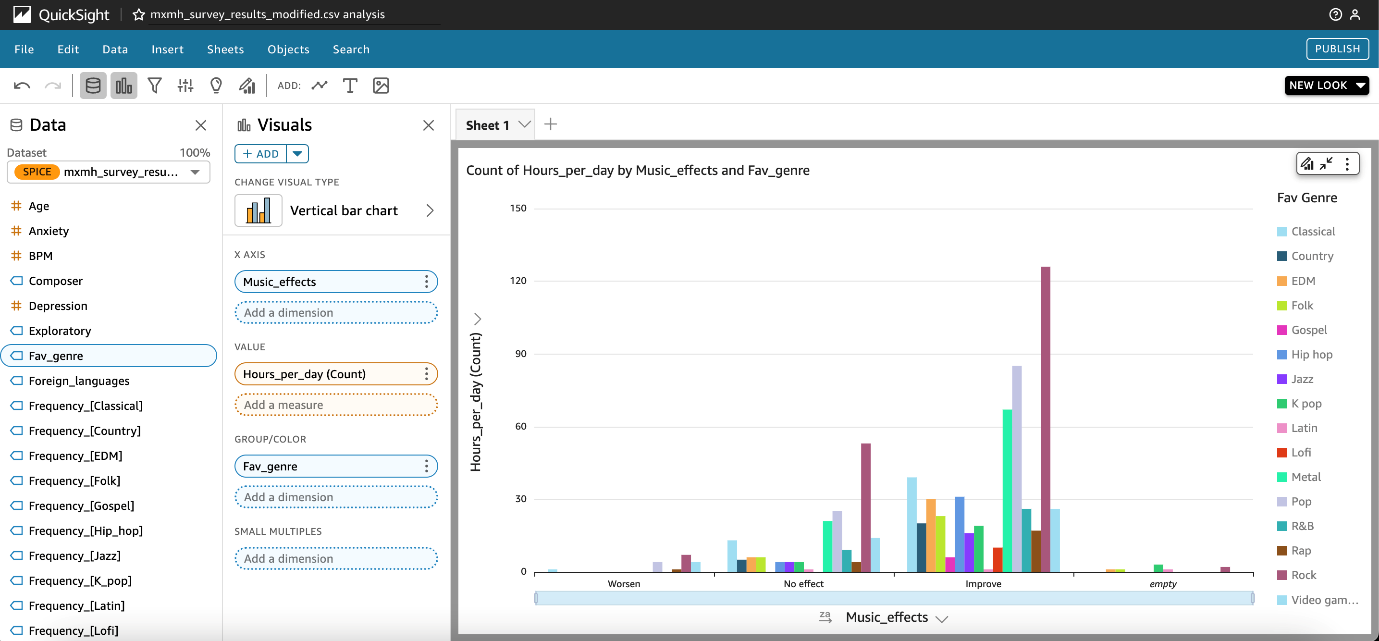
**A screenshot of a computer

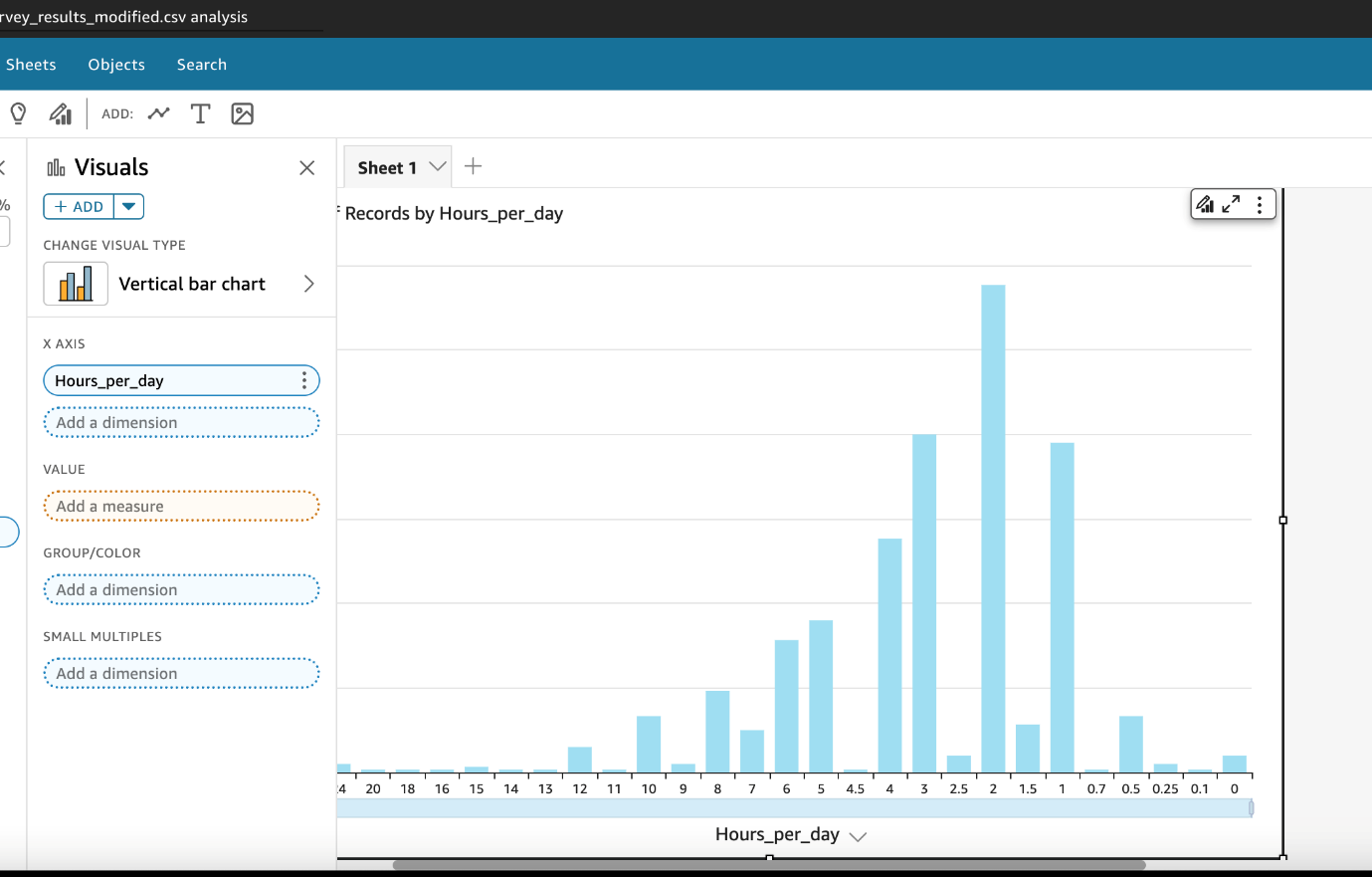
Description automatically generated**

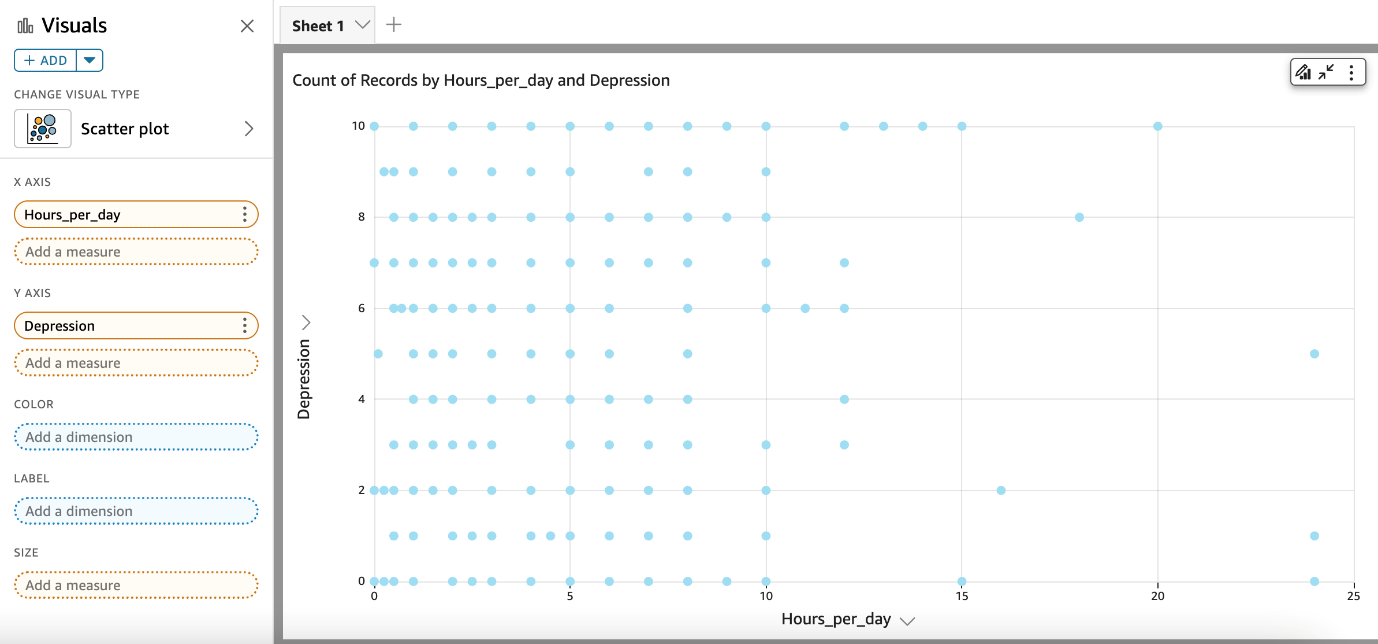
**QuickSight:**



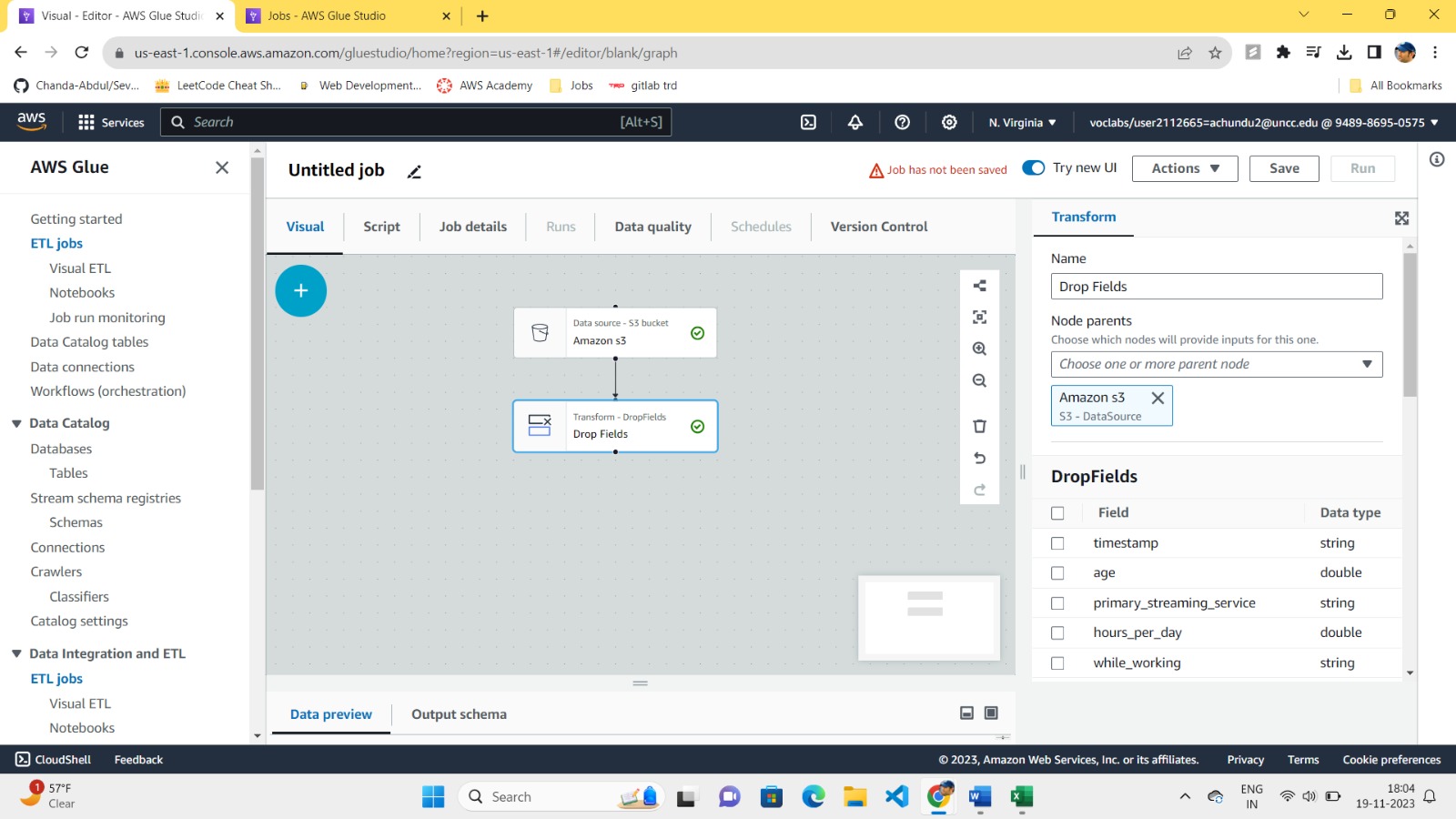


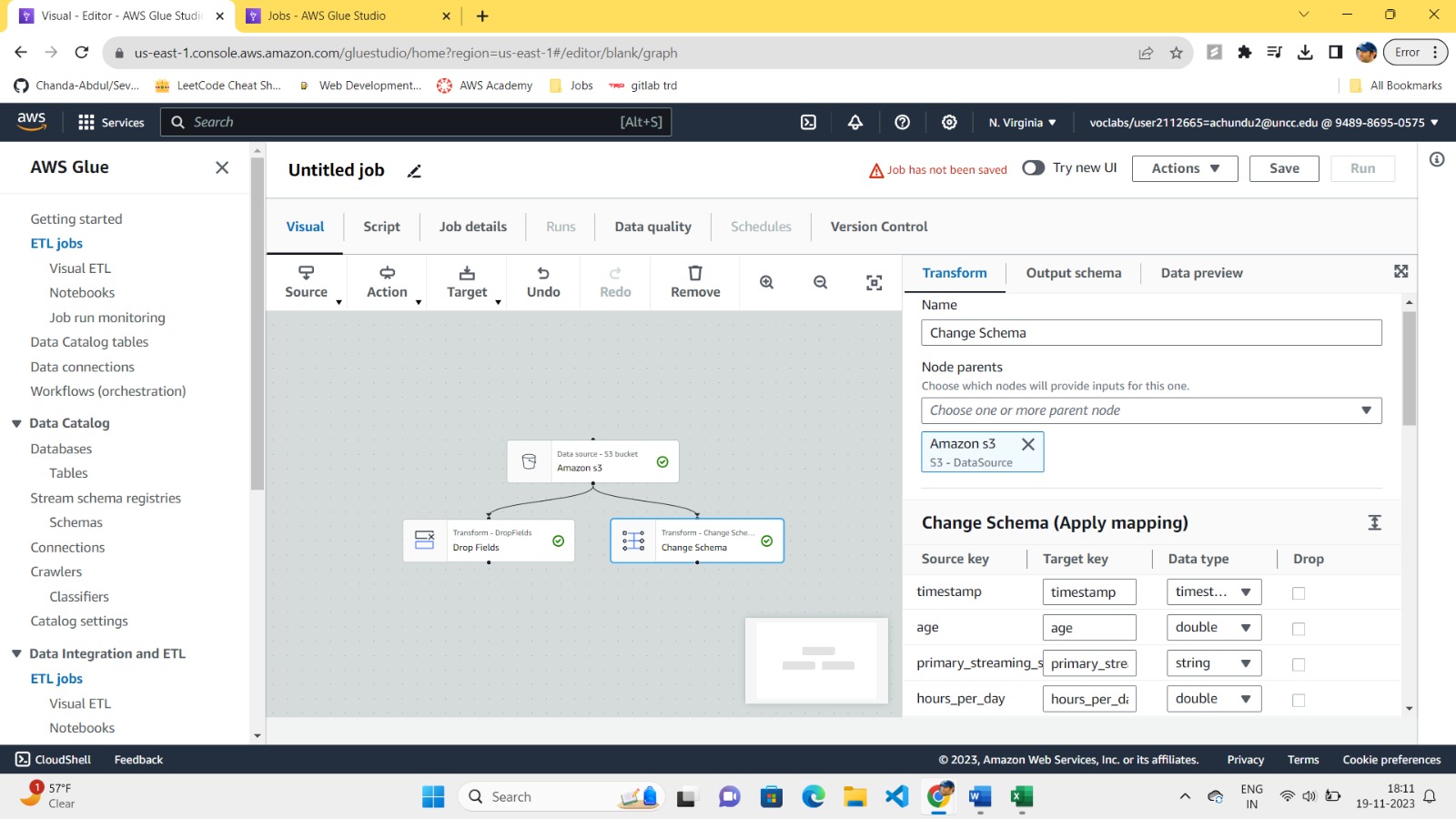


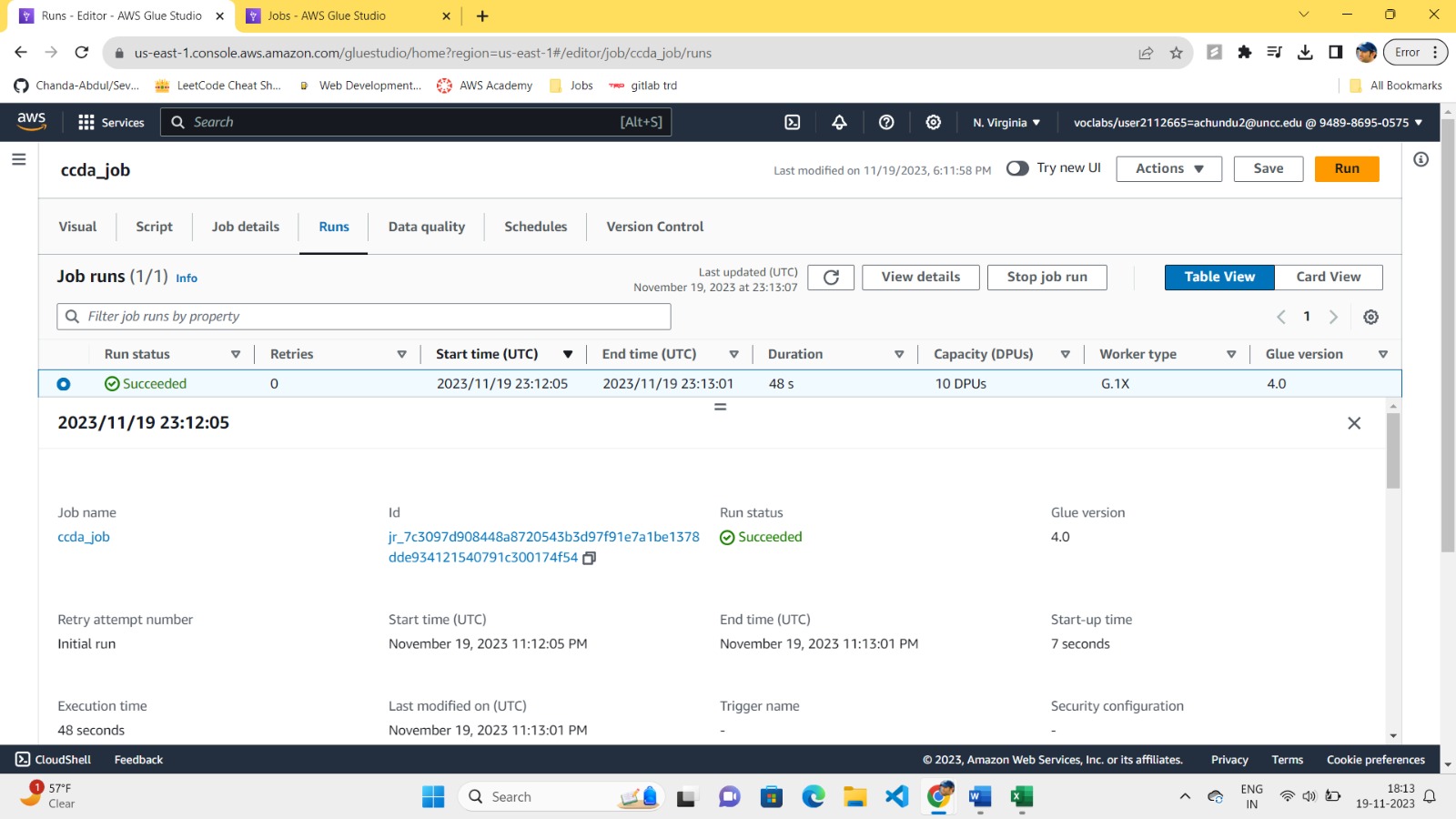




**AWS Glue ETL JOB:**







**AWS Pipeline/Solution Chart**

**A diagram of data processing

Description automatically generated**