**IDS 410 – Business Database Technology**

**Fall 2022**

**AWS Lab 2**

**Submitted by:**

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**Choose Athena from the Services Menu in AWS console.**

A screenshot of a computer

Description automatically generated

**In S3, choose the bucket created and copy the bucket ARN.**

Graphical user interface, text, application, email

Description automatically generated

**Setup a Query Result Location in S3**

Graphical user interface, text

Description automatically generated

A screenshot of a computer

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

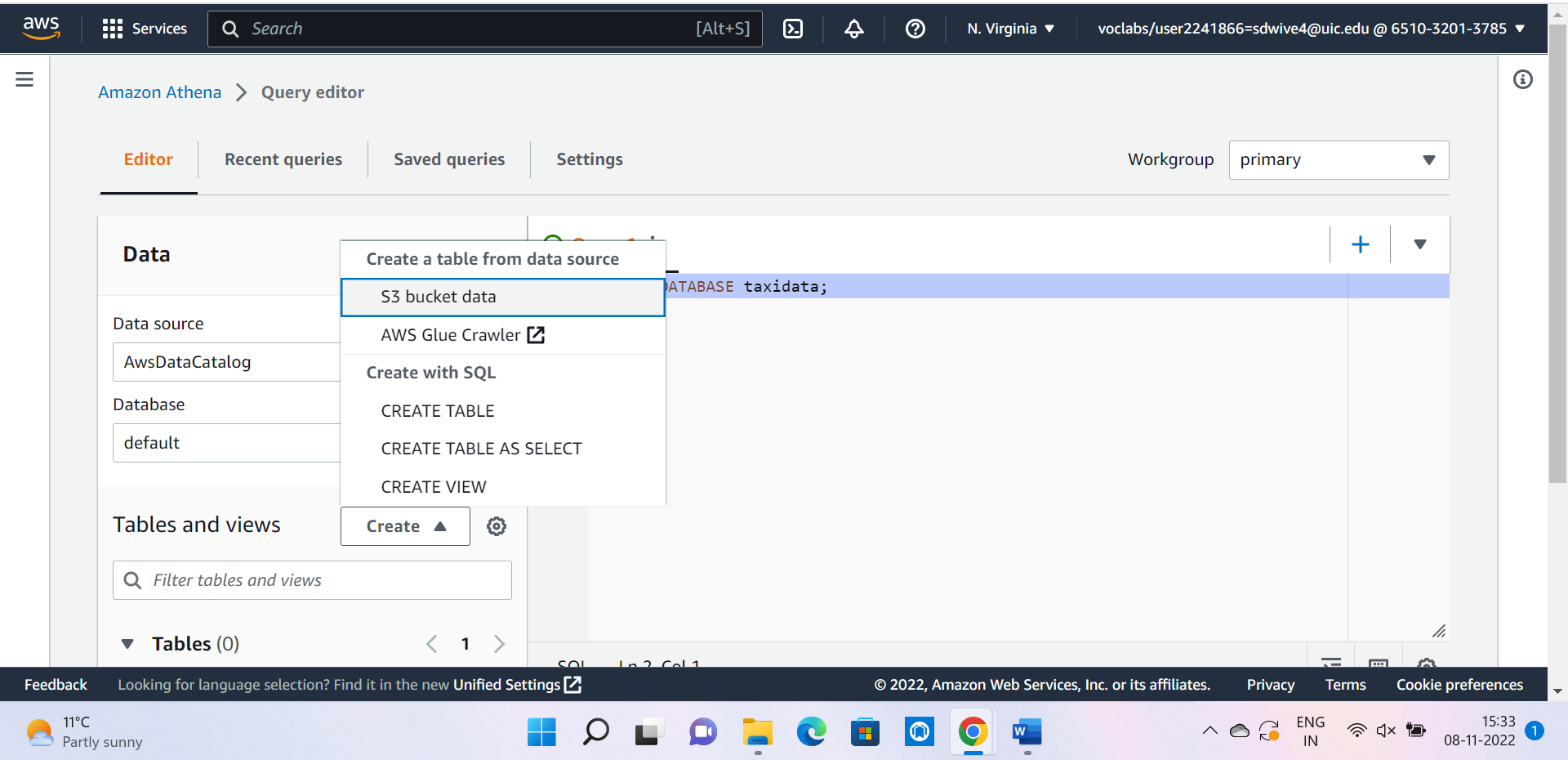
Description automatically generated

**Create a new Database in Athena**

Graphical user interface, text, application

Description automatically generated

**Create a new table from the S3 bucket data inside the Athena console.**



Graphical user interface, text, application

Description automatically generated

**Location of Input Dataset**

Graphical user interface, text, application

Description automatically generated

**Bulk add columns in the table.**

Graphical user interface, application

Description automatically generated

**Preview and Create table**

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Preview of the newly created yellow table.**

Graphical user interface, application

Description automatically generated

**Create a new table to store the January 2017 data.**

A screenshot of a computer

Description automatically generated with medium confidence

**Table preview**

Graphical user interface, application

Description automatically generated

**A query by using the data that was not divided into monthly buckets.**

Graphical user interface, text, application

Description automatically generated

**Results of the Query**

Table

Description automatically generated

**Stats of the Query**

A picture containing graphical user interface

Description automatically generated

**A query using the data that is divided into buckets for each month**

Graphical user interface, text, application, Word

Description automatically generated

**Query Results**

Graphical user interface, table

Description automatically generated

**Query** Stats

Graphical user interface, application

Description automatically generated

**Note: If you are interested in a column with low cardinality, you would partition the data instead of using distinct buckets.**

**Create a partition for paytype = 1**

Graphical user interface, text, application, email

Description automatically generated

**Query run in non-partitioned yellow table**

Graphical user interface, application, Word

Description automatically generated

**Query result for non-partitioned table**

Graphical user interface, text, application, email

Description automatically generated

**Query run in partitioned yellow table**

Graphical user interface, application, Word

Description automatically generated

**Query result for non-partitioned table**

Graphical user interface, text, application, email

Description automatically generated

**create views for the total fares paid for with credit cards and with cash by entering the following two queries:**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application, Word

Description automatically generated

**Views created in the Athena dashboard.**

Graphical user interface, text, application, email

Description automatically generated

**the query for the calculation for credit cards.**

Graphical user interface, application, Word

Description automatically generated

**the result for the calculation for credit cards.**

Graphical user interface, text, application, email

Description automatically generated

**the query for the calculation for credit cards.**

Graphical user interface, application, Word

Description automatically generated

**the result for the calculation for credit cards.**

Graphical user interface, text, application, email

Description automatically generated

**The following query will join the data from two views.**

Graphical user interface, text, application

Description automatically generated

**Preview Comparepay view.**

Graphical user interface, text, application

Description automatically generated

**Challenge Question 1:**

Select max(pulocid) as “Pickup\_Location” from jab where pickup between Timestamp ‘2017-01-01 00:00:00:000’ and Timestamp '2017-01-31 23:59:00:000’;

Graphical user interface, text, application, email

Description automatically generated

**2nd Challenge Question**

**SELECT AVG(CASE WHEN paytype = '2' THEN distance END) AS avg\_distance\_credit\_card, AVG(CASE WHEN paytype = '1' THEN distance END) AS avg\_distance\_cash FROM jan WHERE pickup BETWEEN TIMESTAMP '2017-01-01 00:00:00.000' and TIMESTAMP '2017-01-31 23:59:00.000';**

Graphical user interface, text, application, email

Description automatically generated