EXPERIMENT 6
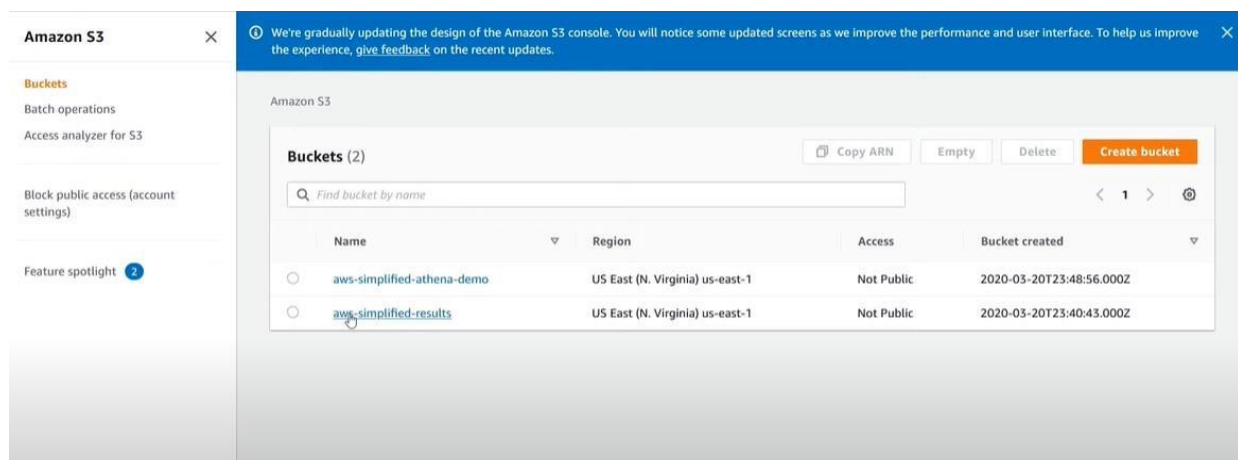## Querying Data in S3 with Amazon Athena

Name: Mukund Maheshwari

Reg No: RA2011028010086

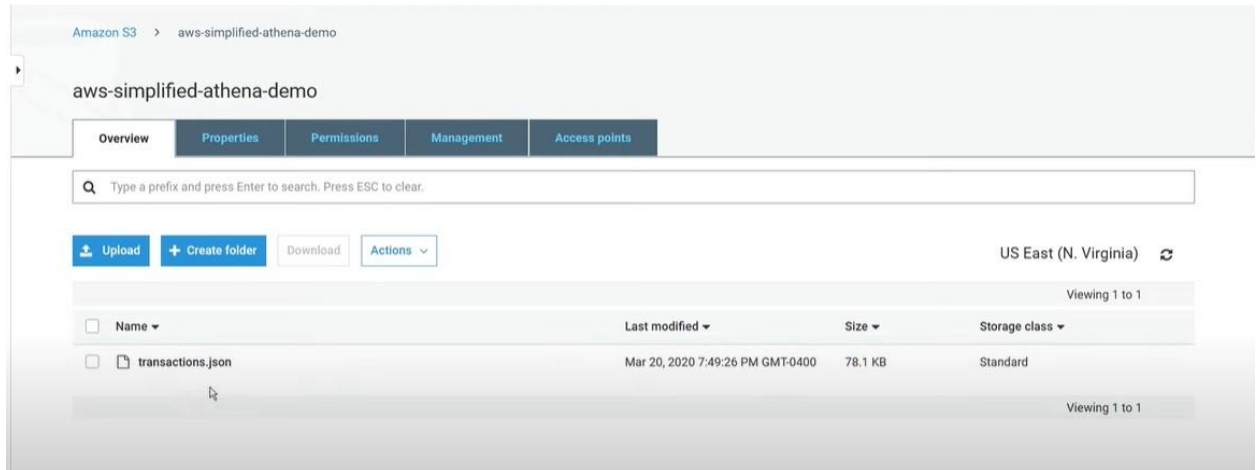**Aim**: Querying Data in S3 with Amazon Athena

Step 1:

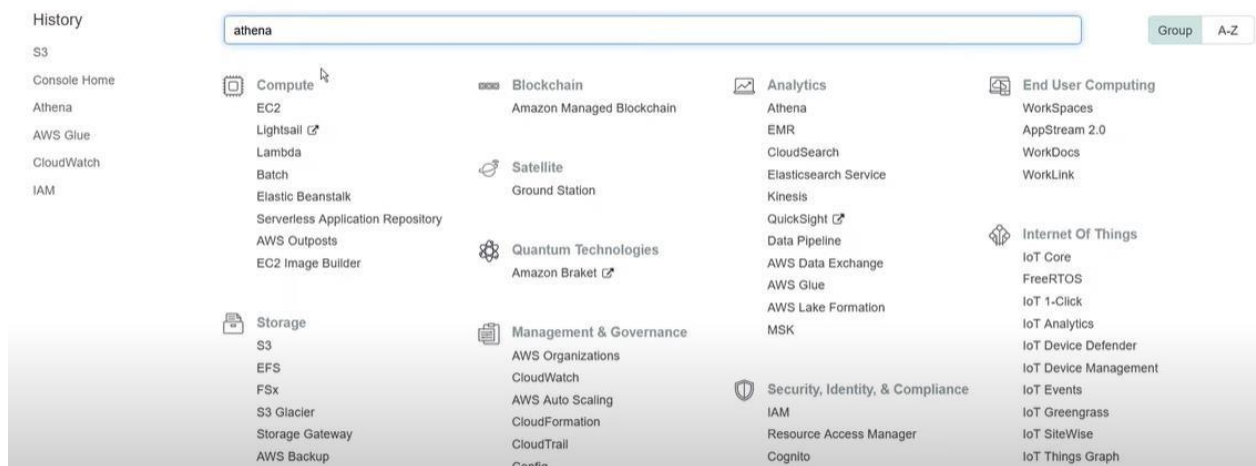Go to buckets and create two buckets.

Step 2:

After clicking onto the bucket add files to it.
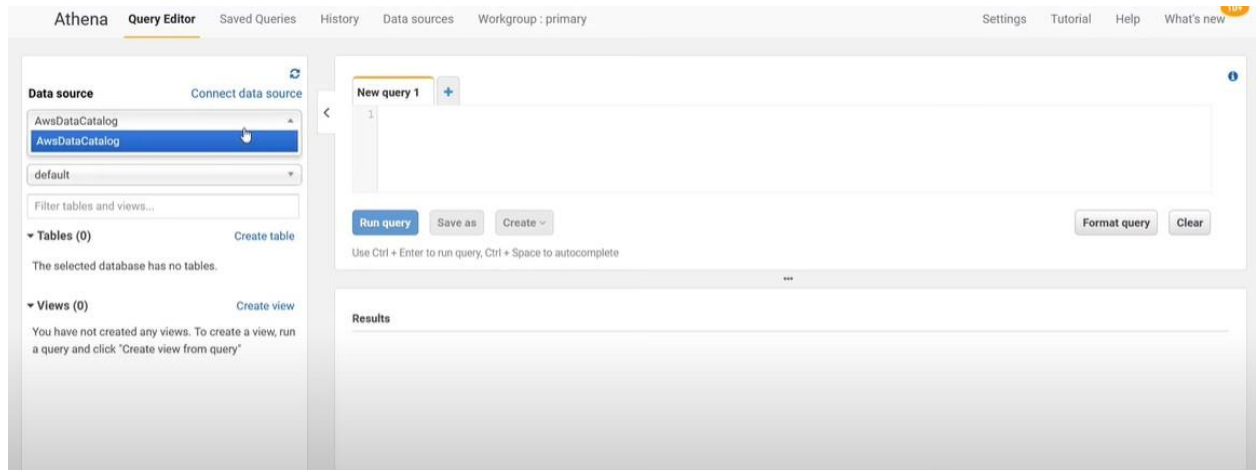
Step 3:
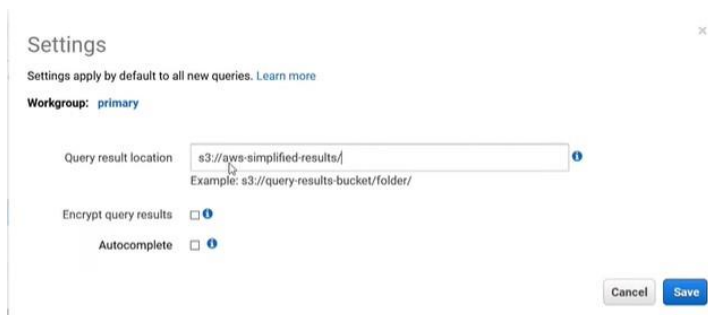
Now go to Amazon Athena.

Step 4:

Select Aws Data Catalog in the left side which is present in the data source tab.
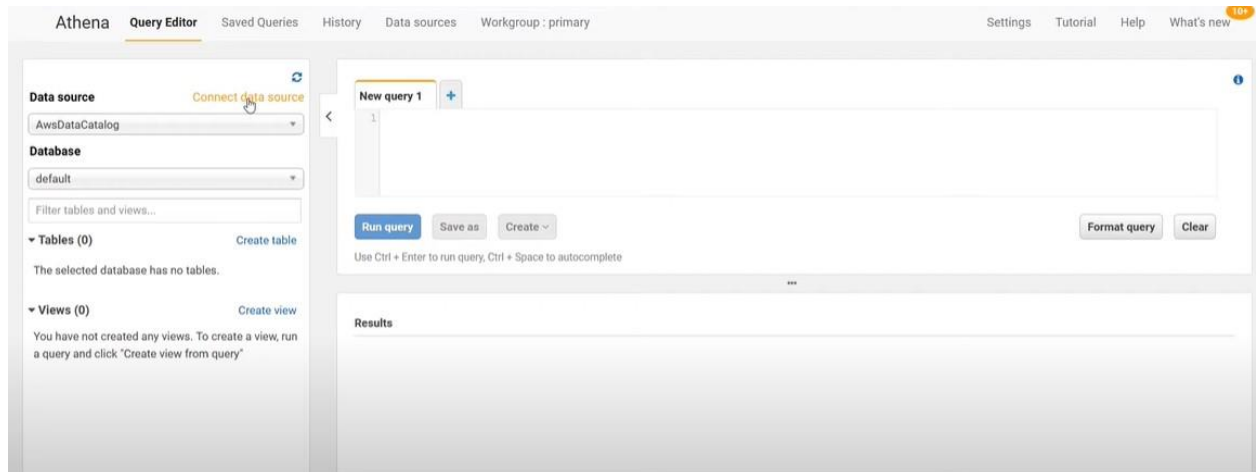
Step 5:

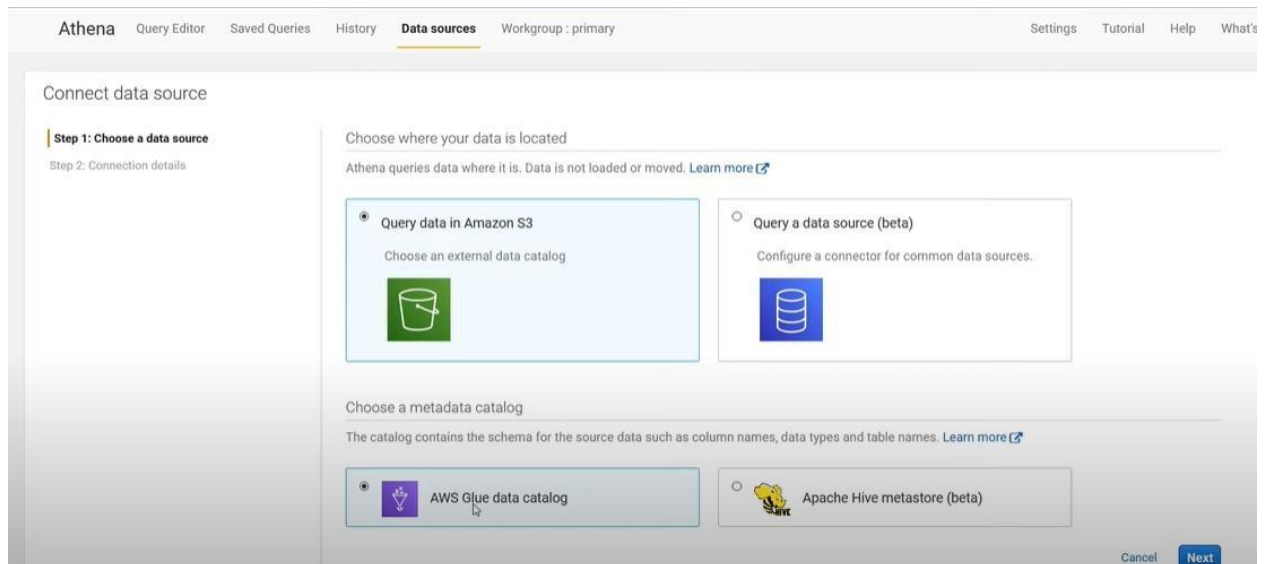After that go to settings and specify an output path.
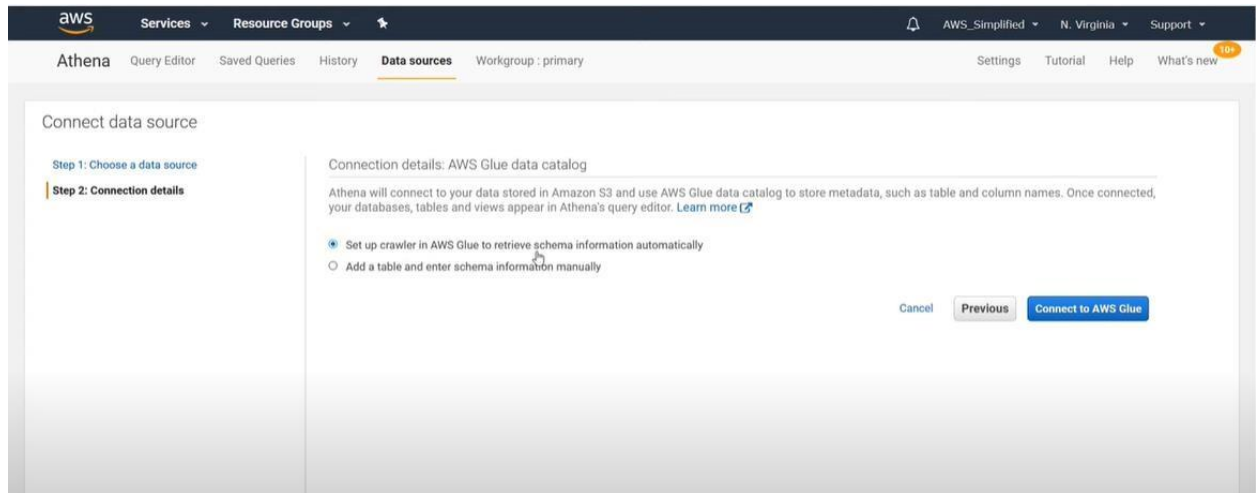

Step 6:

Click on connect data source.

Step 7:

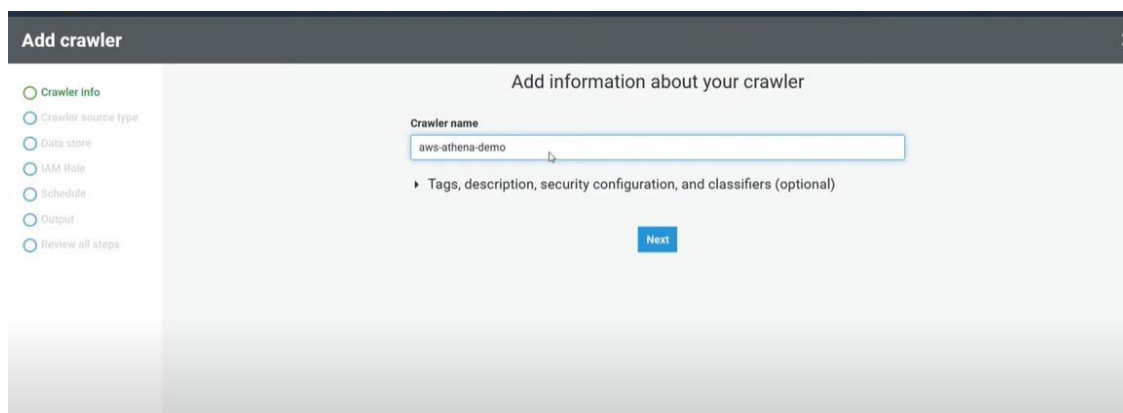After clicking choose a query in amazon s3 and Aws glue data catalog.

Step 8:

Click on next and select setup a crawler in AWS glue to retrieve schema information automatically.

Step 9:

After selecting that it will redirect to a new page and add crawler and follow below steps to add a new crawler after setting up click on finish.

Add crawler   ✕

○ **Crawler info**
   aws-athena-demo
○ **Crawler source type**
○ Data store
○ IAM Role
○ Schedule
○ Output
○ Review all steps

Specify crawler source type

Choose Existing catalog tables to specify catalog tables as the crawler source. The selected tables
specify the data stores to crawl. This option doesn't support JDBC data stores.

Crawler source type

◉ Data stores
○ Existing catalog tables

[Back] [**Next**]

Add crawler   ✕

○ **Crawler info**
   aws-athena-demo
○ **Crawler source type**
   Data stores
○ **Data store**
○ IAM Role
○ Schedule
○ Output
○ Review all steps

Add a data store

Choose a data store

| S3   ⌄ |

Crawl data in

◉ Specified path in my account
○ Specified path in another account

Include path

| s3://bucket/prefix/object | 📂

▸ Exclude patterns (optional)

[Back] [**Next**]

Add crawler   ✕

○ **Crawler info**
   aws-athena-demo
○ **Crawler source type**
   Data stores
○ **Data store**
   S3: s3://aws-simplifi...
○ IAM Role
○ Schedule
○ Output
○ Review all steps

Choose an IAM role

The IAM role allows the crawler to run and access your Amazon S3 data stores. Learn more

○ Update a policy in an IAM role
○ Choose an existing IAM role
◉ Create an IAM role

IAM role ⓘ

AWSGlueServiceRole- | demo |

To create an IAM role, you must have **CreateRole**, **CreatePolicy**, and **AttachRolePolicy** permissions.

Create an IAM role named "**AWSGlueServiceRole**-rolename" and attach the AWS managed policy,
AWSGlueServiceRole, plus an inline policy that allows read access to:

- s3://aws-simplified-athena-demo/

You can also create an IAM role on the IAM console.

[Back] [**Next**]

Step 10:

Crawler is successfully created and now click on the crawler and click run crawler.
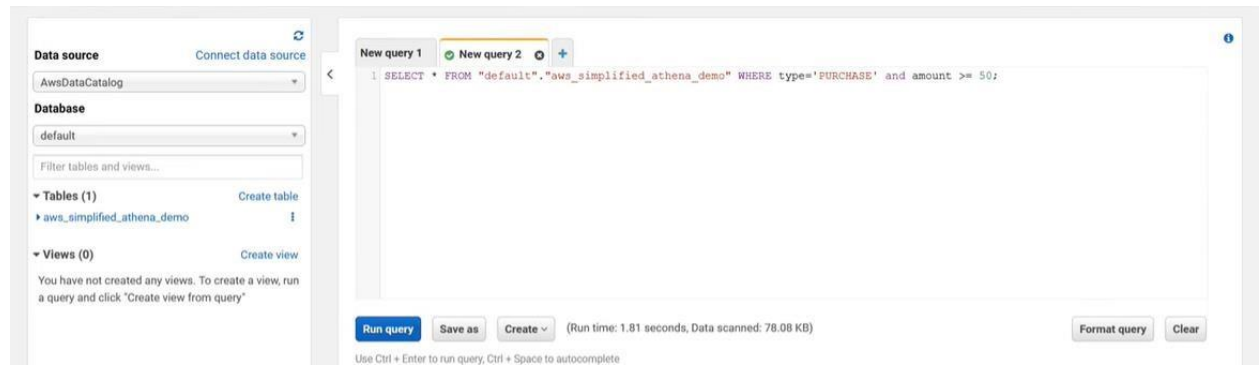
Step 11:

After running the crawler go back to Athena you will see a table created on table column select that and click on preview table.
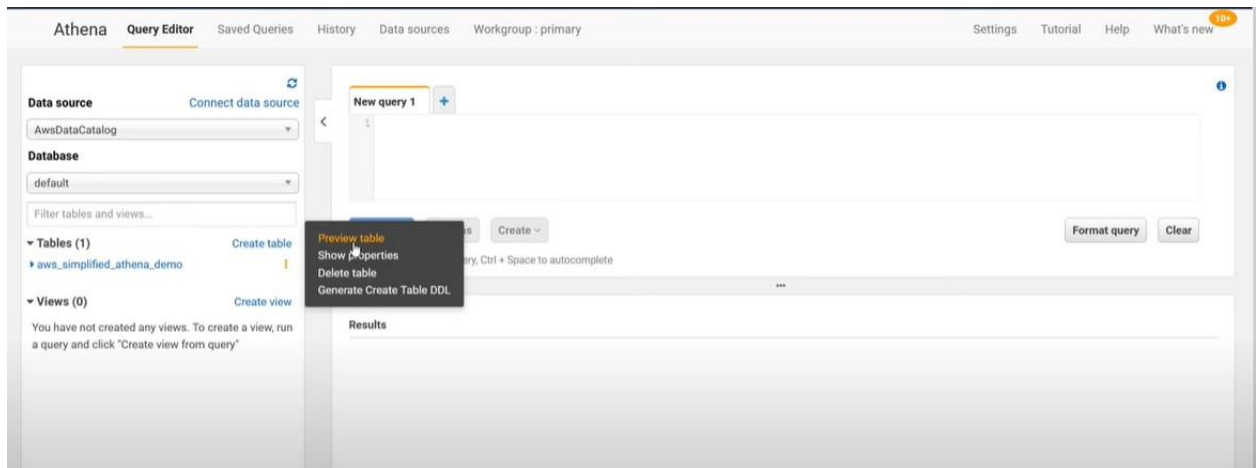
Step 12:

Now the query can be executed.

Result:

Querying Data in S3 with Amazon Athena is done and output is verified.