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EXP NO : 6 Querying Data in S3 with Amazon Athena

Aim: Querying Data in S3 with Amazon Athena

Step 1:

Go to buckets and create two buckets.

Amazon S3

Successfully created bucket "bucketawsexp62"
To upload files and folders, or to configure additional bucket settings choose [View details](#).

Amazon S3 > Buckets

Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

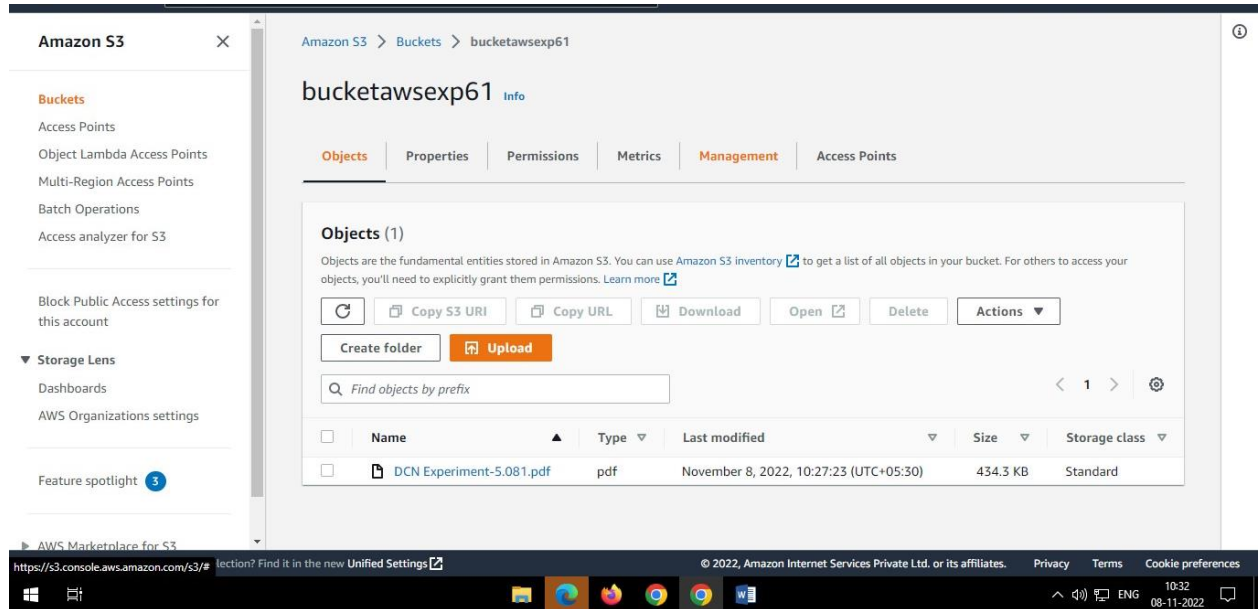
Buckets (2) Info
Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

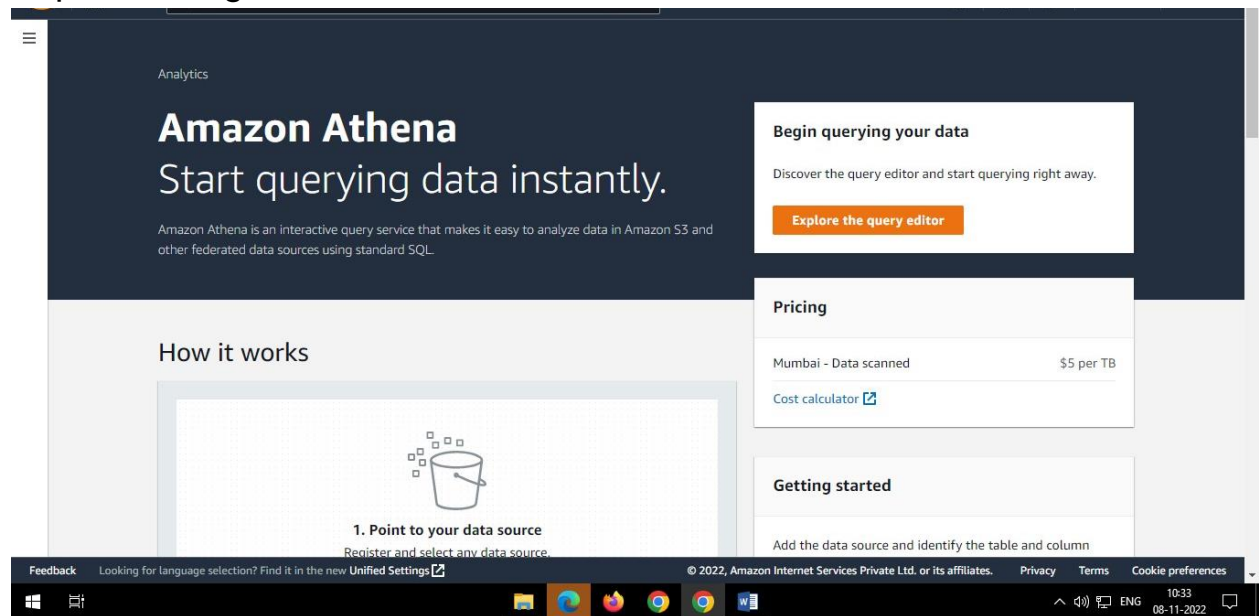
	Name	AWS Region	Access	Creation date
<input type="radio"/>	bucketawsexp61	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	November 8, 2022, 10:25:51 (UTC+05:30)
<input type="radio"/>	bucketawsexp62	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	November 8, 2022, 10:26:13 (UTC+05:30)

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Step 2 :
After clicking onto the bucket add files to it.

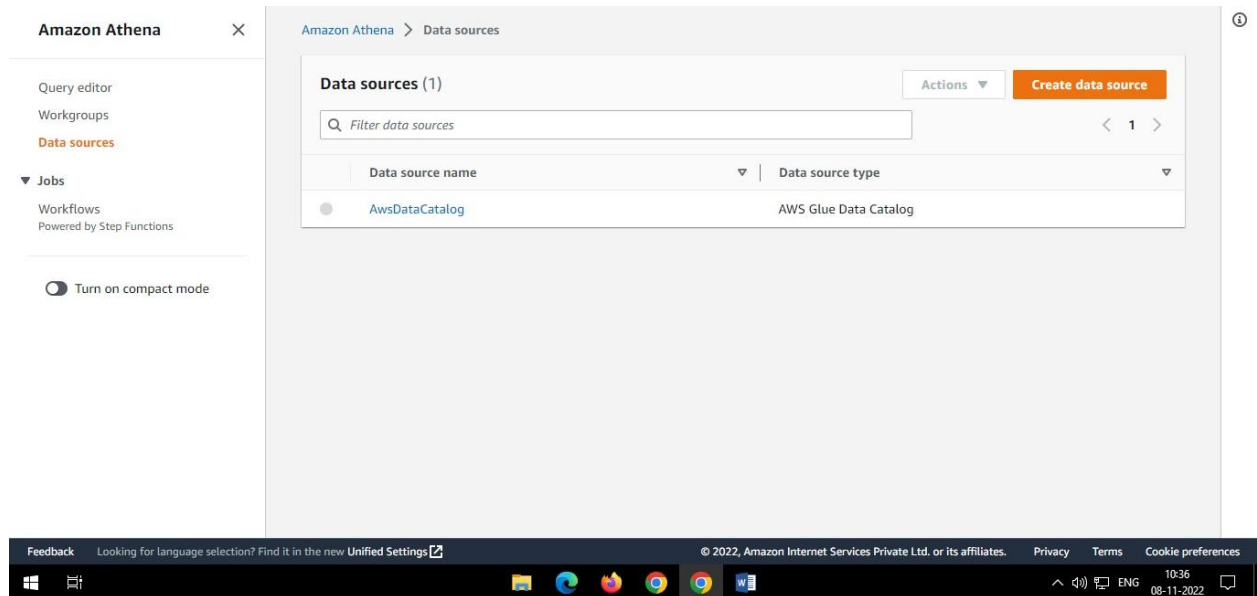


Step 3 : Now go to Amazon athena.

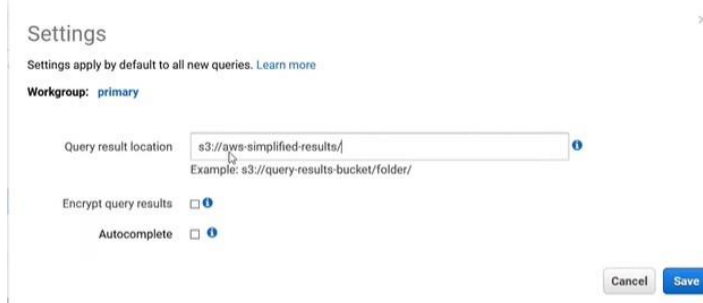


Step 4 :

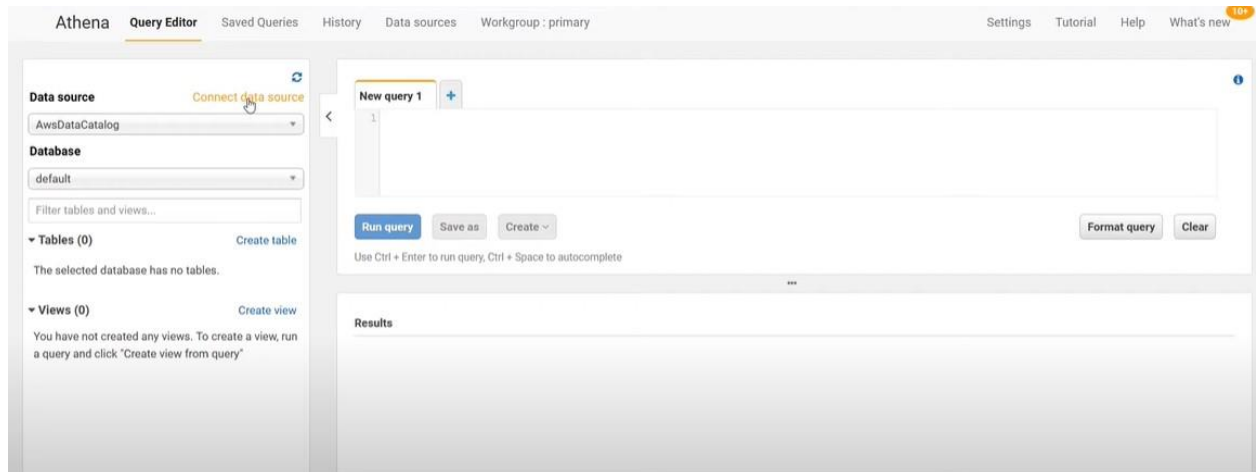
Select AwsDataCatalog in the left side which is present in the data source tab.



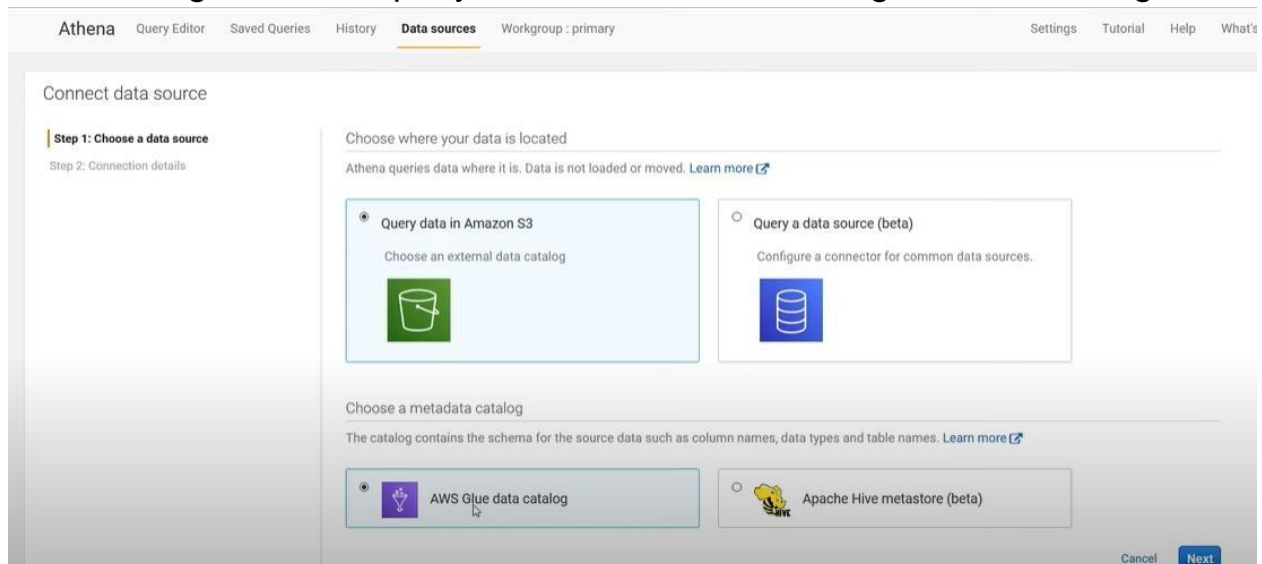
Step 5 :
After that go to settings and specify an output path.



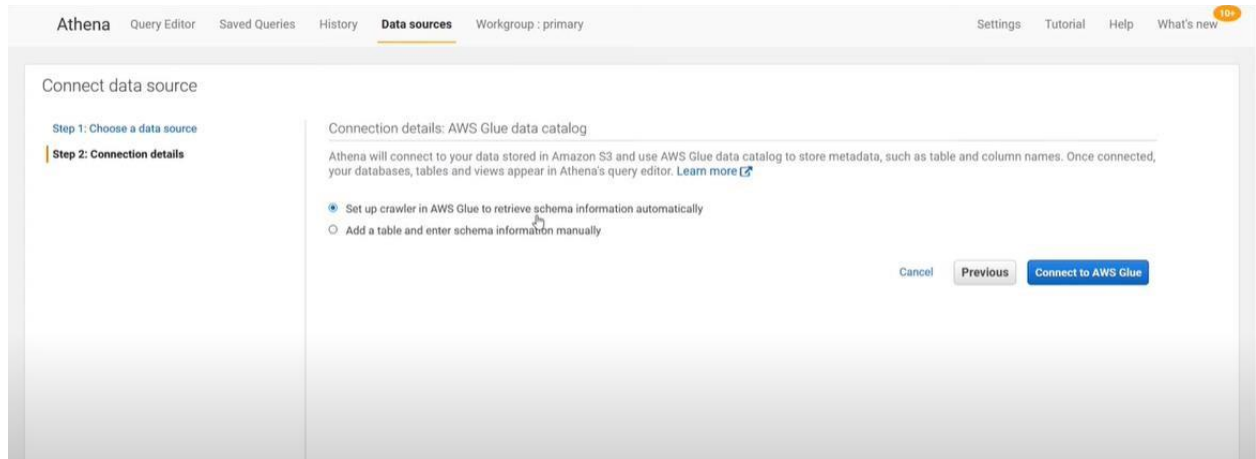
Step 6:
Click on connect data source.



Step 7:
After clicking choose a query in amazon s3 and Aws glue data catalog.

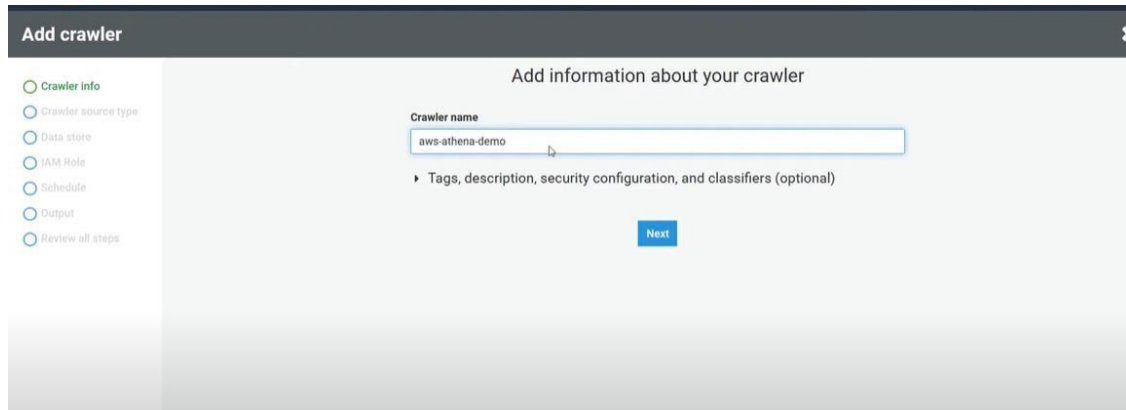


Step 8:
Click on next and select setup a crawler in AWS glue to retrieve schema information automatically.



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

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aws-athena-demo

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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

✕

- Choose an IAM role

- ☐ Update a policy in an IAM role
- ☐ Choose an existing IAM role
- ☒ Create an IAM role

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

[Back](#)

- ☒ **Crawler info**
aws-athena-demo
- ☒ **Crawler source type**
Data store
- ☒ **Data store**
S3: s3://aws-simplif...
- ☒ **IAM Role**
arn:aws:iam::3984478-58632:role/service-role/AWSGlueServiceRole-demo
- ☐ **Schedule**
- ☐ **Output**
- ☐ **Review all steps**

Run on demand

[Back](#)

✕

- Crawler info

Tags

```

IAM role    arn:aws:iam::398447858632:role/service-role/AWSGlueServiceRole-
demo

```

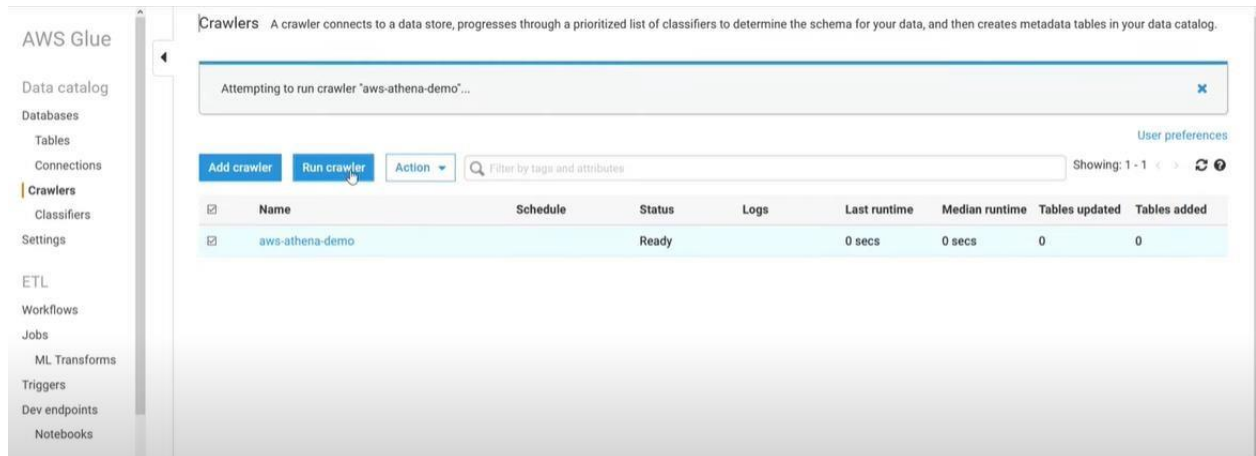
Schedule	Run on demand
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Database default

Prefix added to tables (optional)	
Create a single schema for each S3 path	false

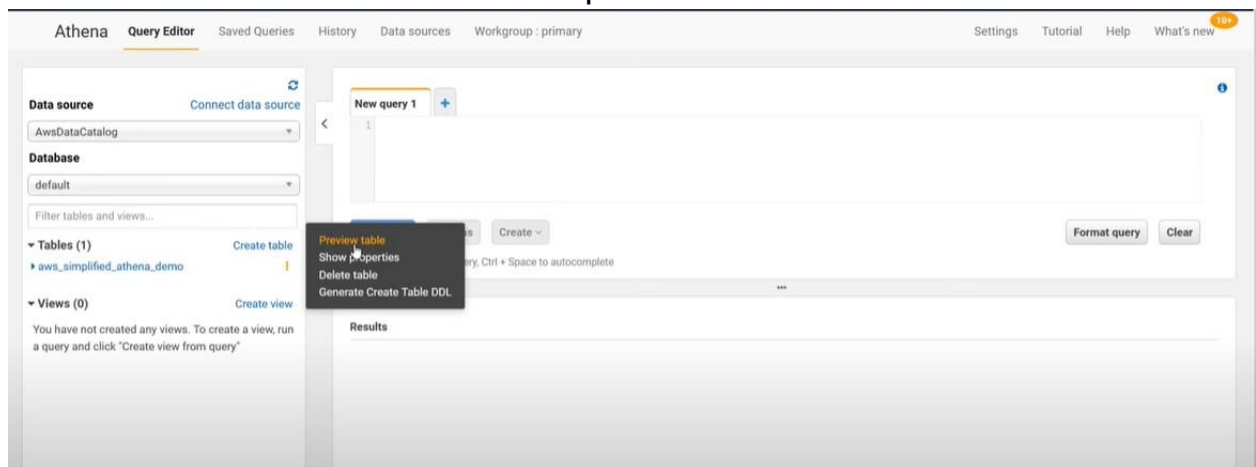
Step 10:

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.