Module 7: Redshift Assignment

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Course Offered: -Advanced Cloud Computing and Devops
Assignment By: -Intellipaat
Trainer: -Puneet Gavri
Date Of Submission: -08/11/2024

Problem Statement:

You work for XYZ Corporation. Their application requires a database service that can store data which can be retrieved if required. Implement suitable service for the same.

While migrating, you are asked to perform the following tasks:

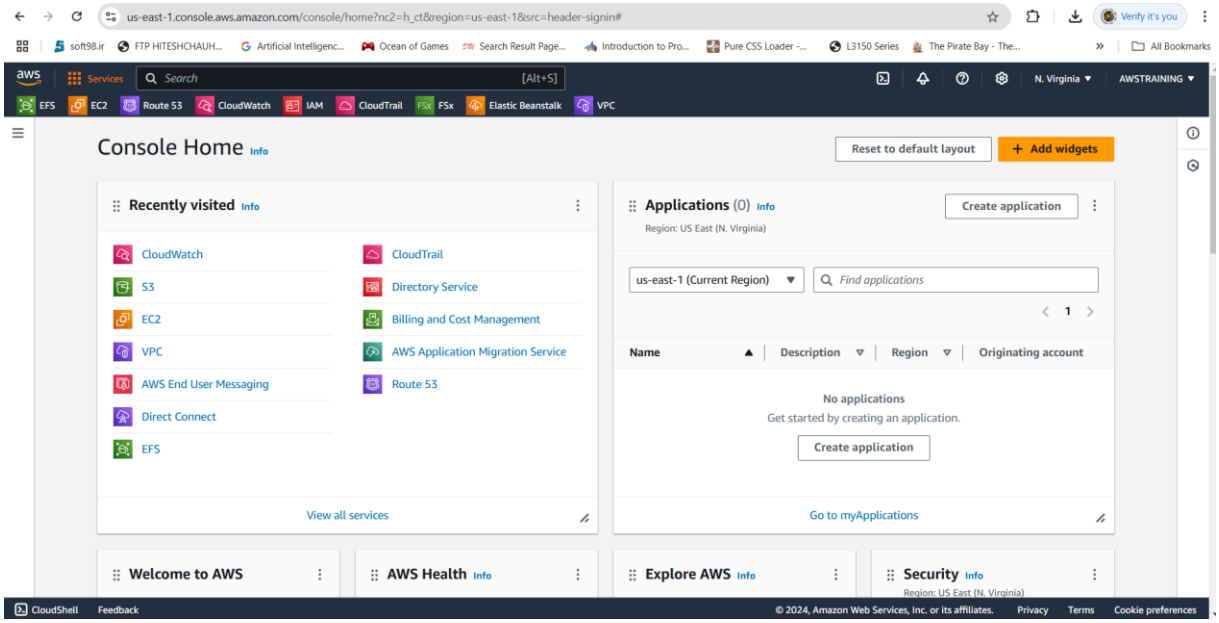
1. Create a Redshift data warehouse.

2. Using the query editor:

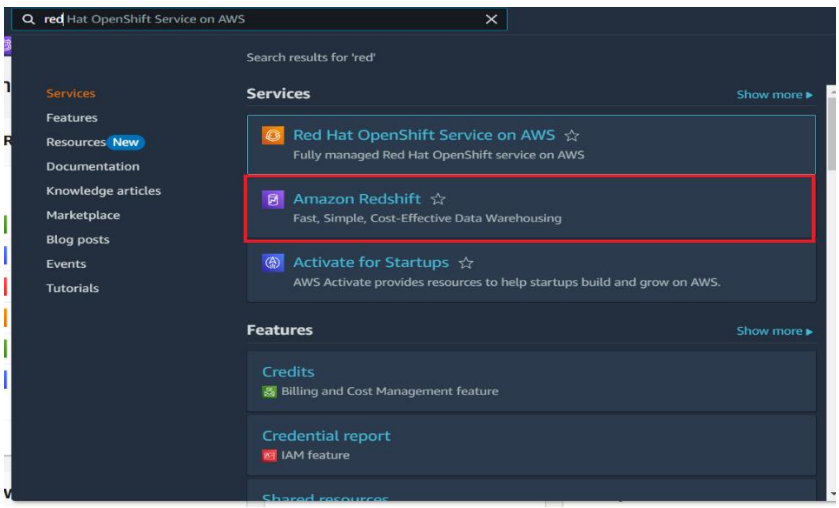
a. Load some data

b. Query the dataANSWER:

Login to AWS Management Console: -

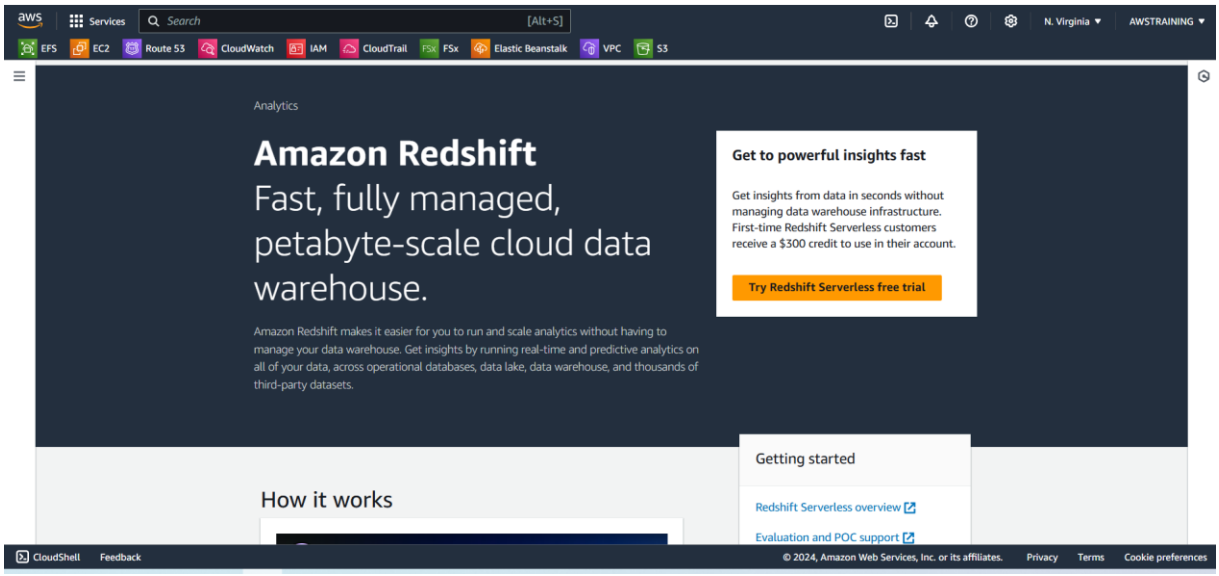


Then Search Amazon Redshift.

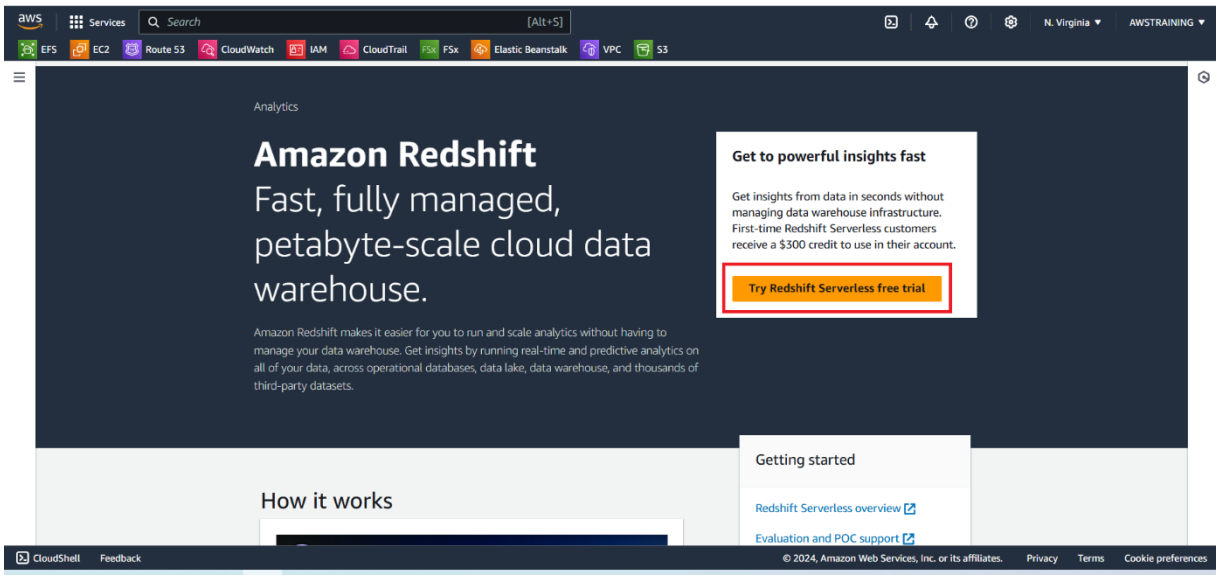


After Click the Amazon Redshift You will see like this screen

Note:Amazon Redshift is not a free service but Redshift gives Trial version for use.



Click Try Redshift Serverless free Trial.



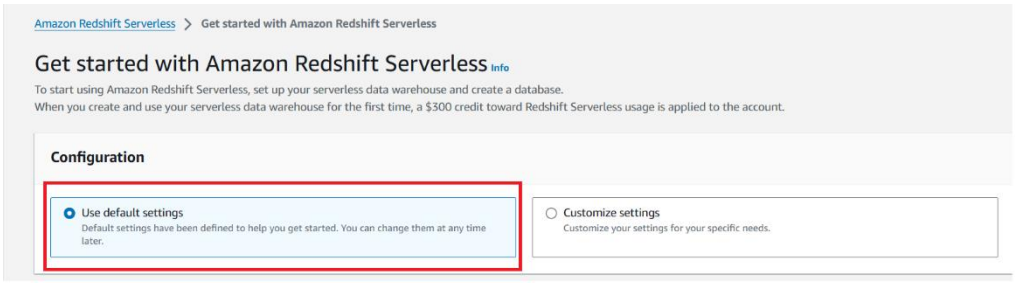
After Click the Redshift serverless free trial version you will see the configuration option.

In configuration option there is two options.

1.Use Default Setting

2.Customize Setting.

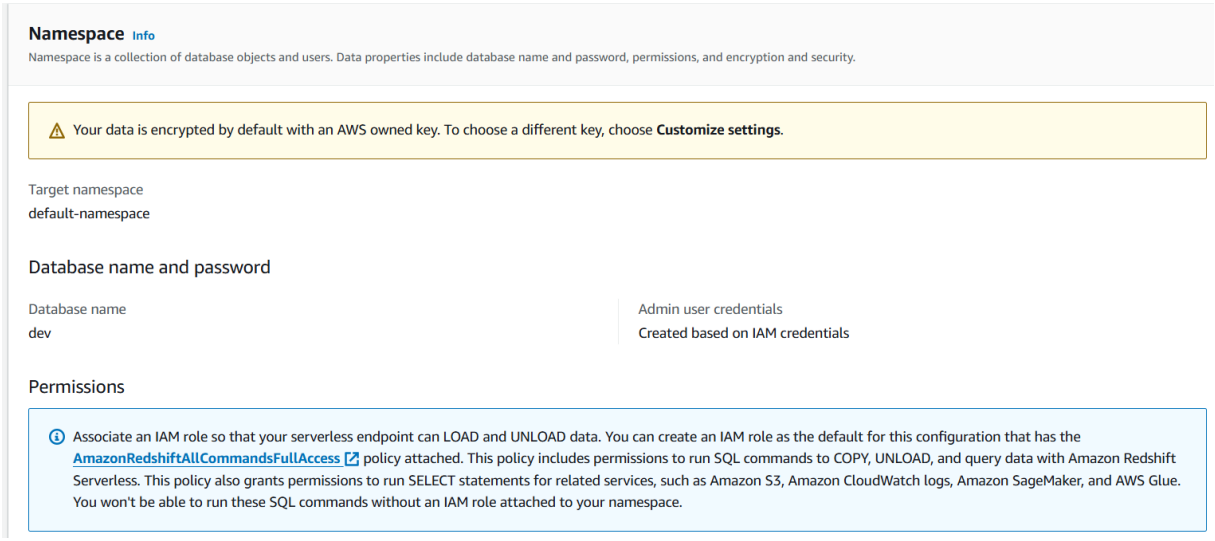
But Right now I choose the Option 1 Use default Setting.i don't want to go customize setting in redshift.



Next is namespace.

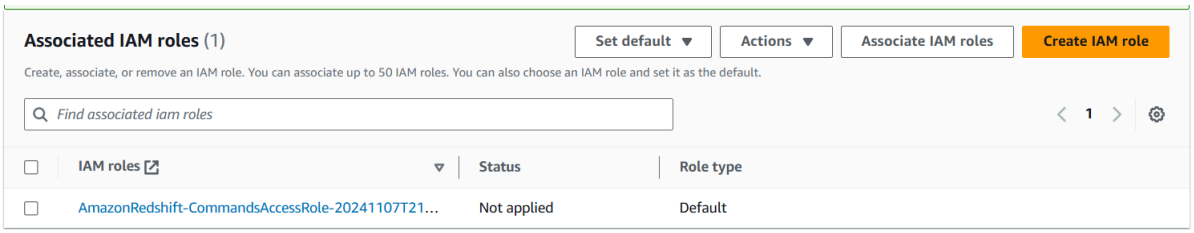
In this namespace target namespace will be **default-namespace**

In database name and password option in database name is **dev**



In this Associated IAM roles.

If incase there is no associate role to redshift so need to assign the IAM role.



In Encrytion and security option will be default setting.

In Workgroup Setting,

Workgroup name Will be **default-workgroup.**

Capacity will be no changes.

In Network and security Settings

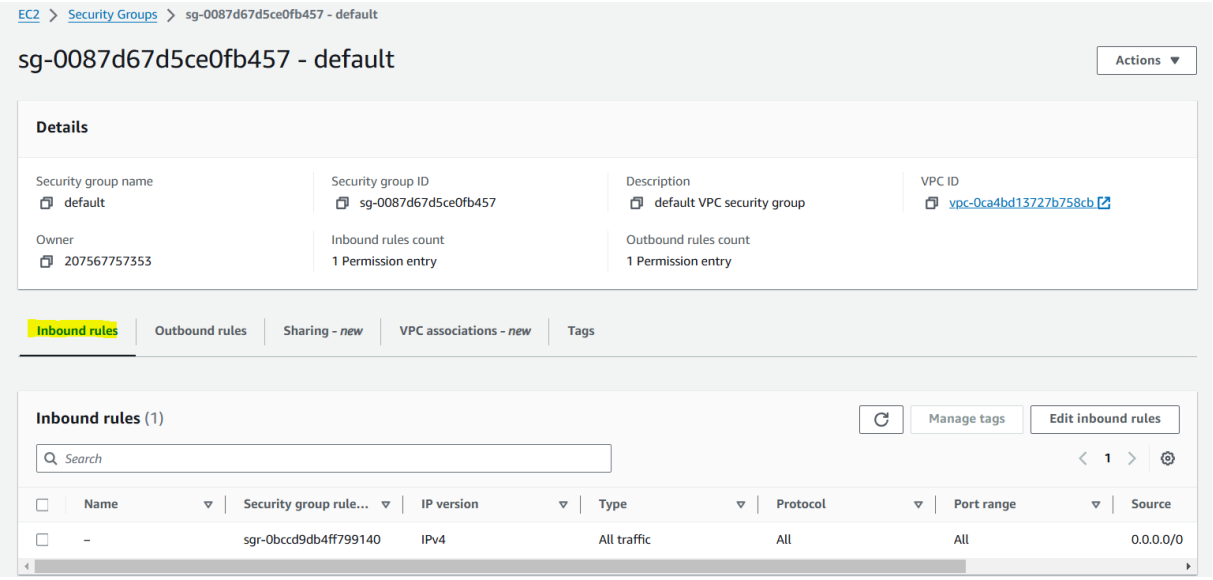
Virtual private cloud(VPC)

vpc-0ca4bd13727b758cb

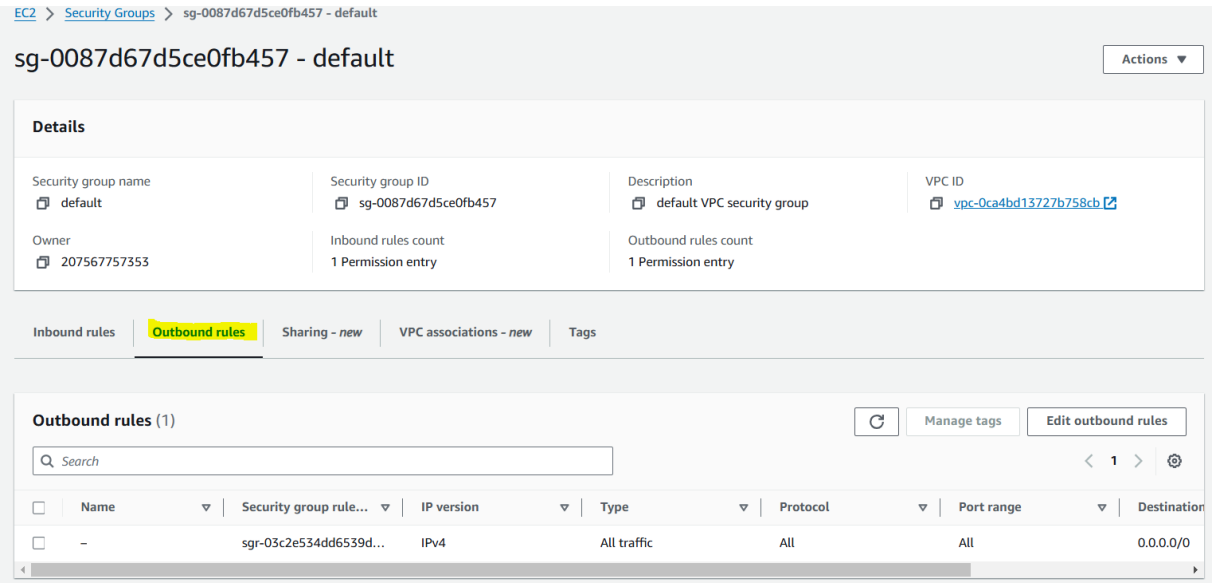
VPC Security group

sg-0087d67d5ce0fb457

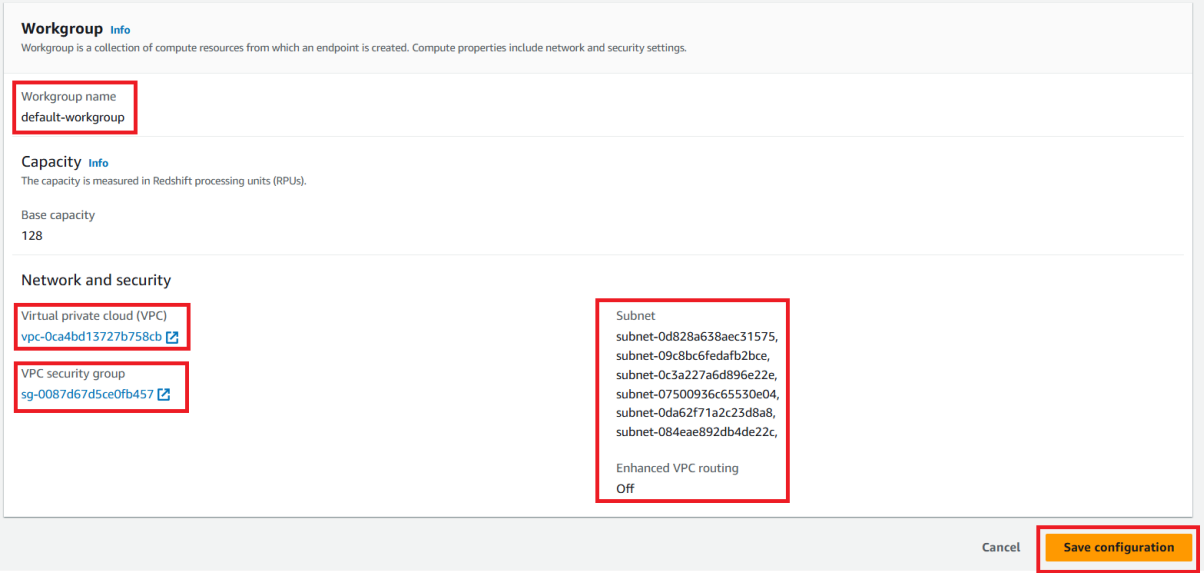
Inbound rule



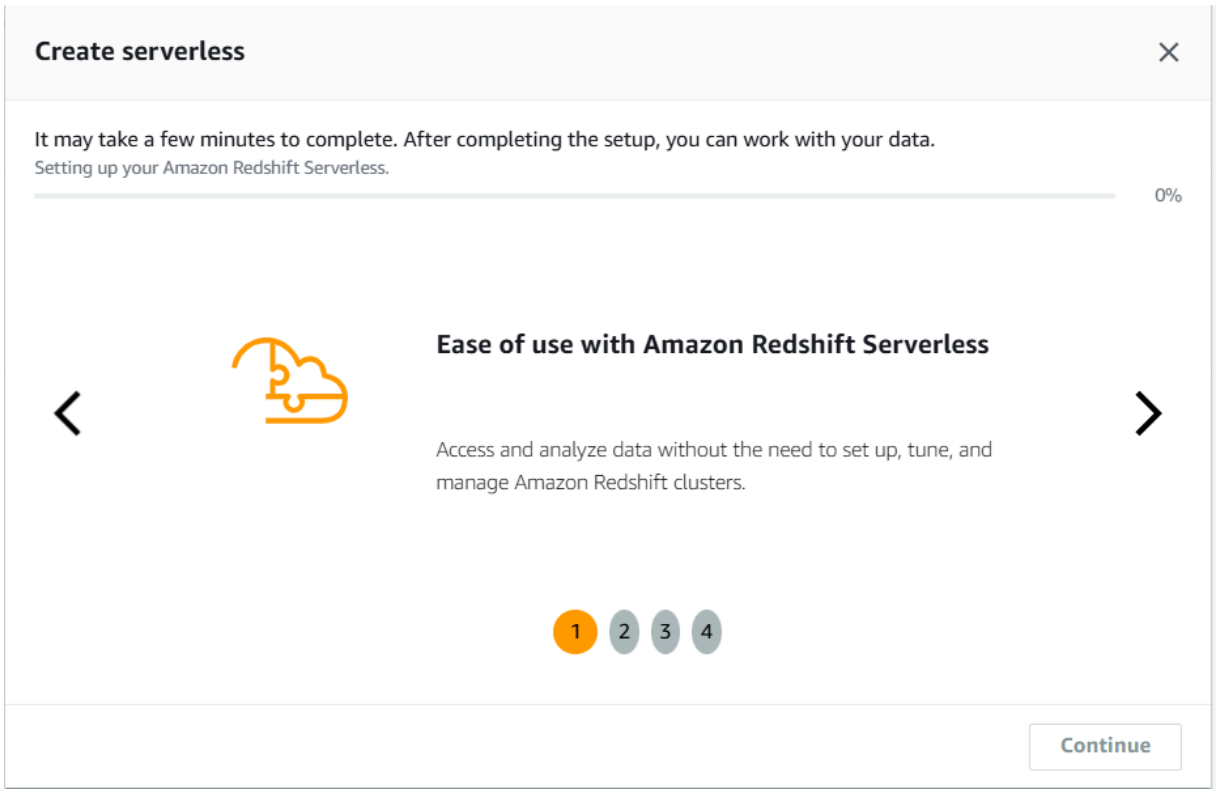
Outbound rule



In Workgroup You need assign the workgroup name so in my case this is **default-workgroup**



Click Save Configuration



Create serverless

It may take a few minutes to complete. After completing the setup, you can work with your data.

Setting up your Amazon Redshift Serverless.

10%

Pay for use

Pay only when the data warehouse is in use.

1 2 3 4

Continue

Create serverless

It may take a few minutes to complete. After completing the setup, you can work with your data.

Setting up your Amazon Redshift Serverless.

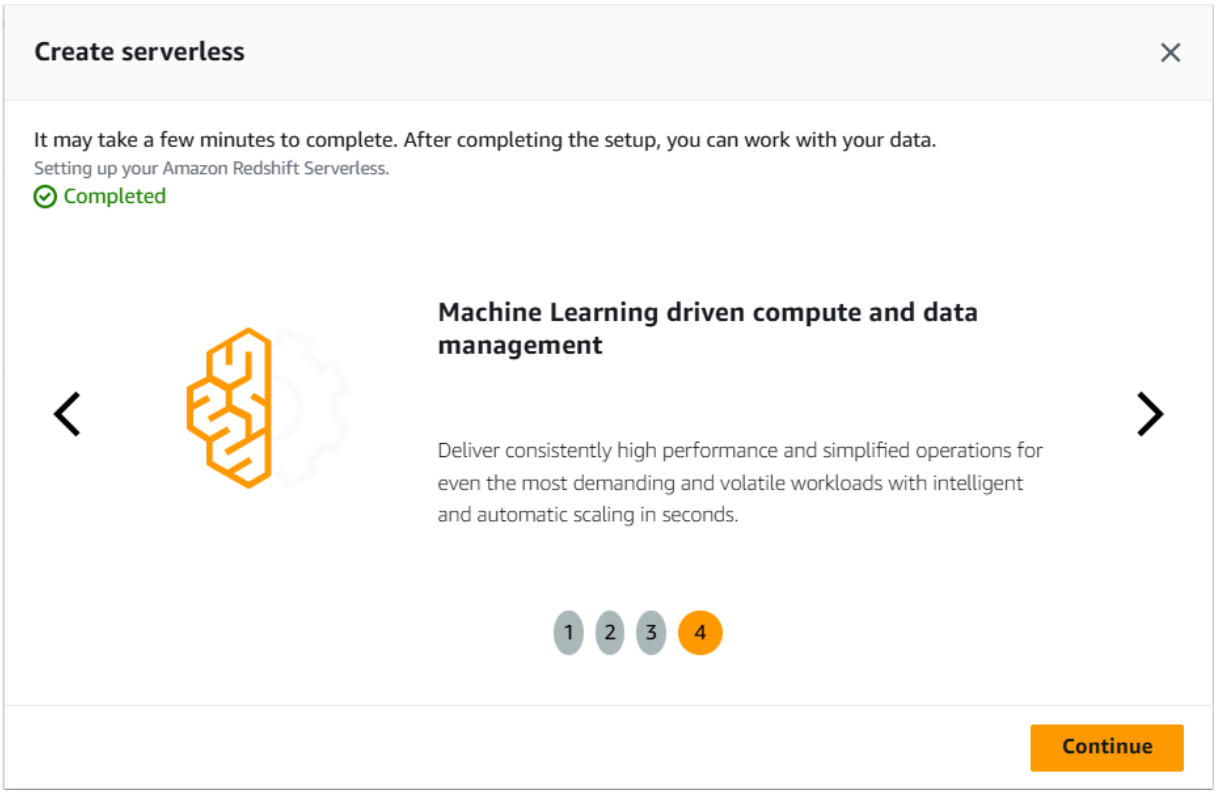
15%

All Amazon Redshift functionality and performance

Use the Amazon Redshift best-in-class SQL capabilities, industry-leading performance, and lake house architecture to seamlessly query across a data warehouse, a data lake, and operational data sources.

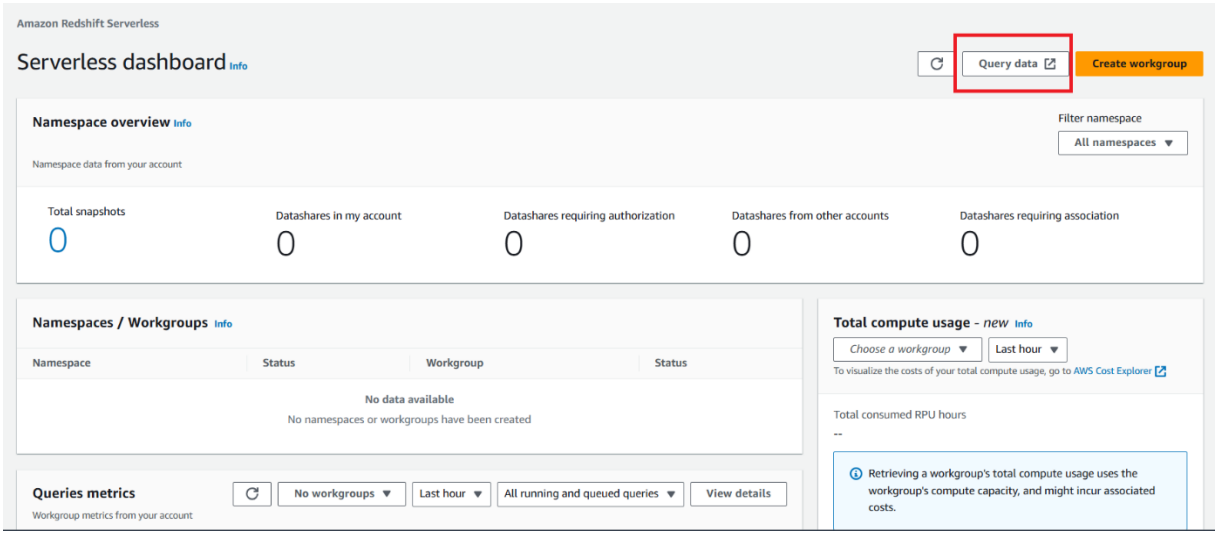
1 2 3 4

Continue

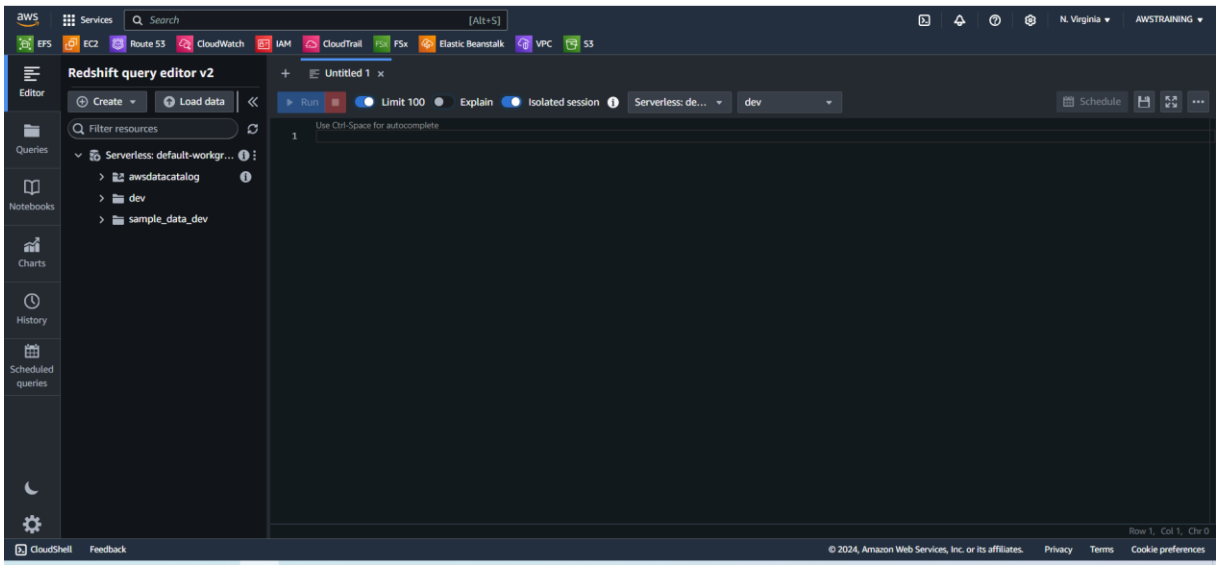


After Click the continue Button You will see like this screen.this is the serverless dashboard.

Select the query data



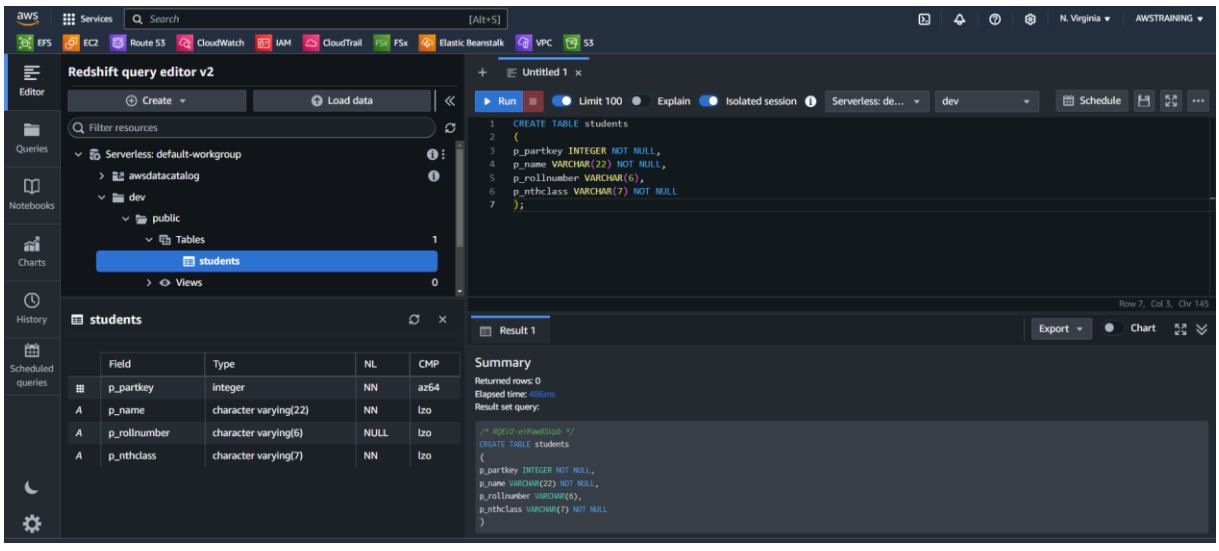
After click the query data you will see the query editor of redshift.



After Query editor you need to create the table

For example I want create the table of student so this is the query.

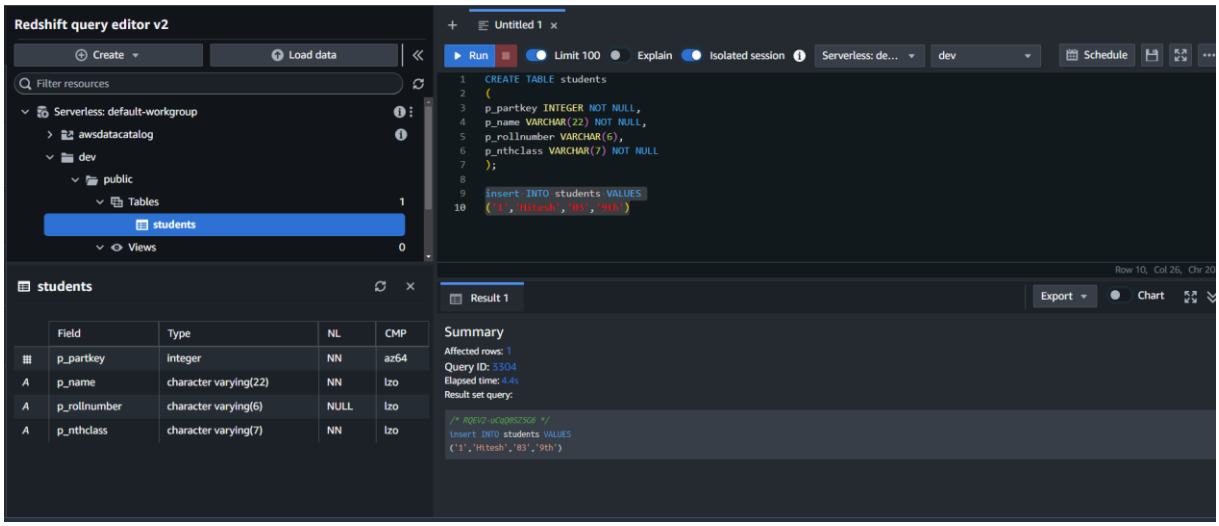
```
CREATE TABLE students
(
p_partkey INTEGER NOT NULL,
p_name VARCHAR(22) NOT NULL,
p_rollnumber VARCHAR(6),
p_nthclass VARCHAR(7) NOT NULL
);
```



After Create the student table.this is the value of student we need to insert in table.

```
insert INTO students VALUES
('1','Hitesh','03','9th')
```

Insert the data using the above query.

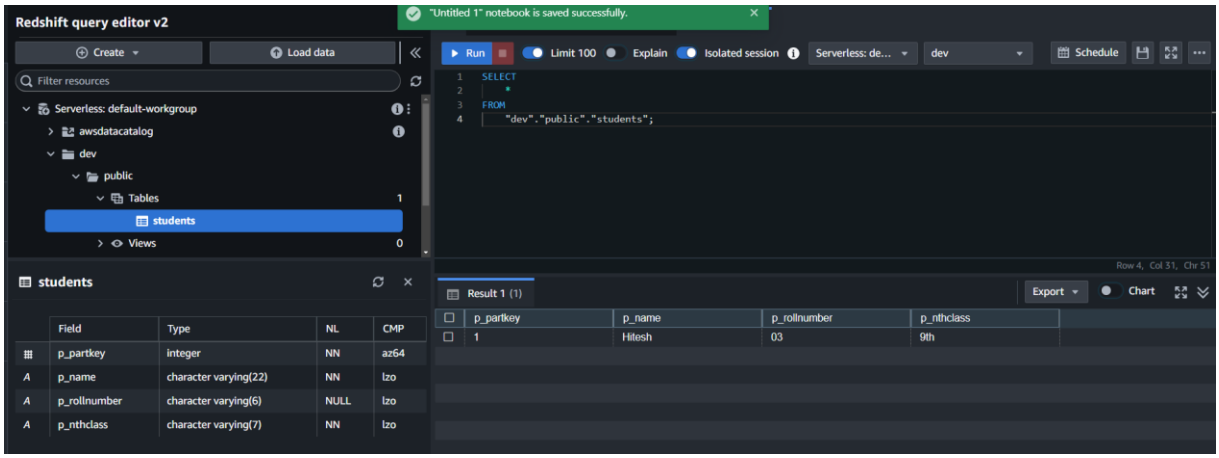


After created the inserted the value in student table just need to check

So this is the query

Select * from “dev”,”public”,”student”;

Insert the data using the above query.



Above is the query to query the data on the table.

That’s complete the question.