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MSC(CS) Part I

Cloud Computing Practical Assignment No 12

Launch RDS Instance(AWS) and connect.

First of all open Virtual Lab. Then click on the Start Lab button. When the circle icon to the right of the AWS link in the upper-left corner turns green, it indicates that the lab environment is ready to use this we can see in Fig 1. To launch the AWS Management Console in a new tab, select the AWS link

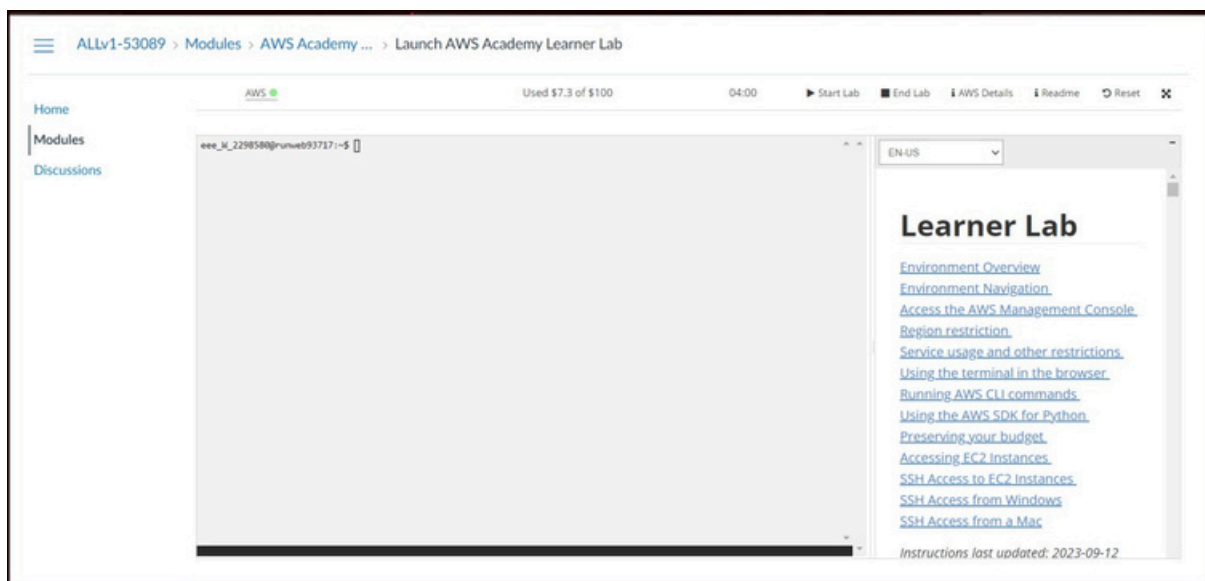


Fig 1

After clicking on "AWS" we get the console home as shown in Fig 2. Then click on "RDS" service.

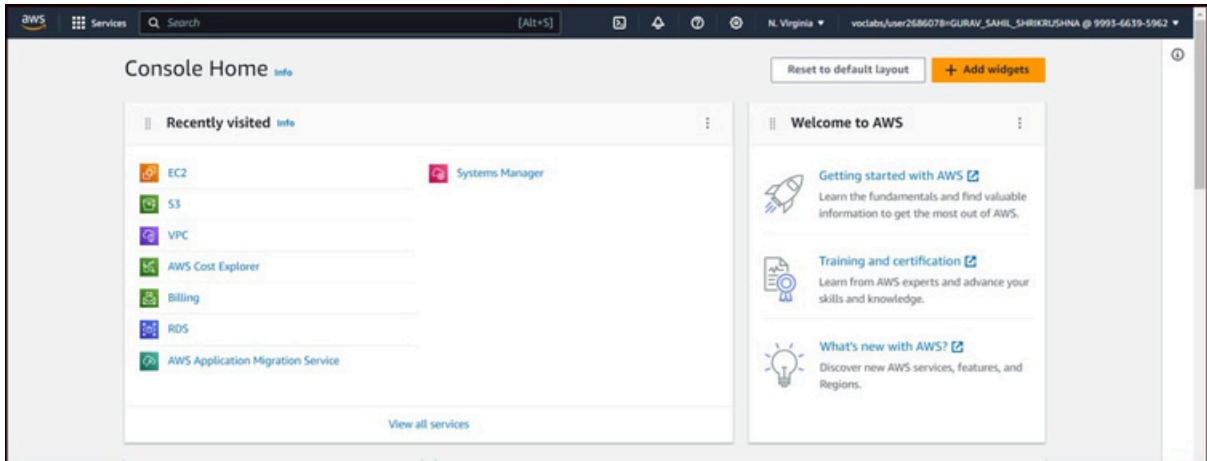


Fig 2

After clicking on "RDS" services we get an interface similar to Fig 3. In this click on "Create Database".

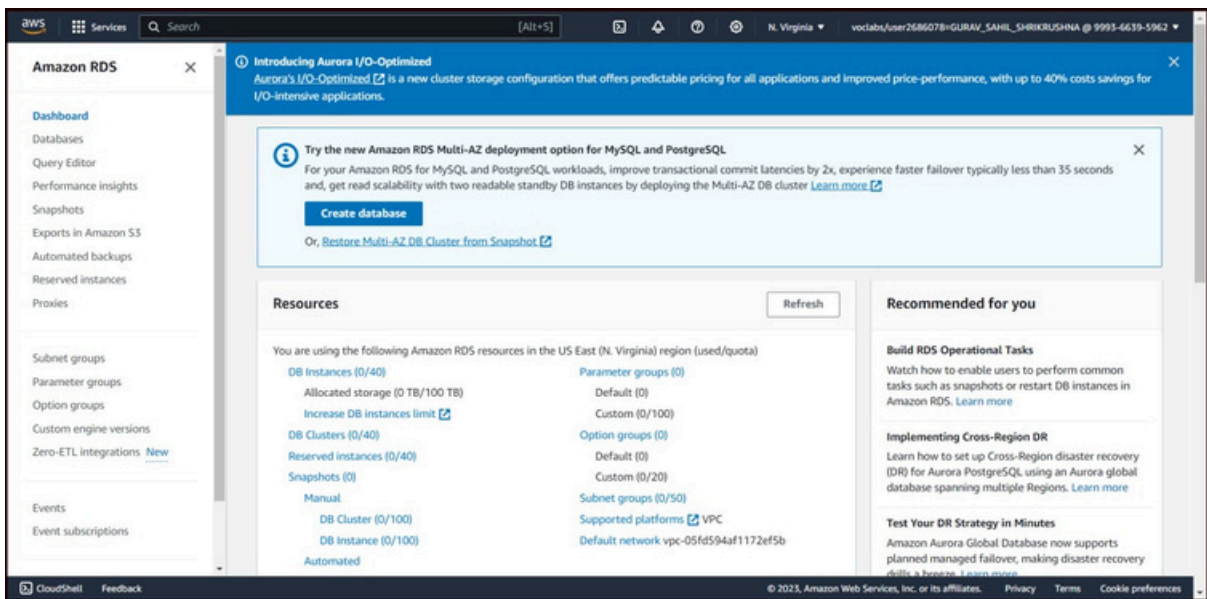


Fig 3

Select "Standard Creation" in choosing the database creation method and choose MySQL in the engine options as shown in Fig 4.

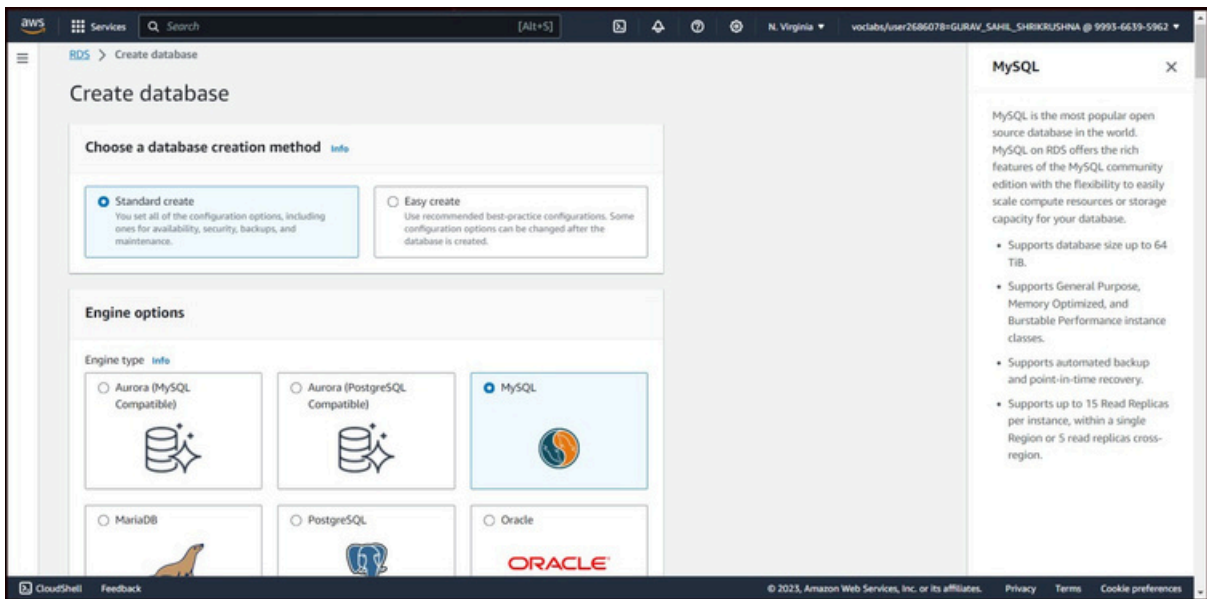


Fig 4

Select "Free Tier" in the template as shown in Fig 5.

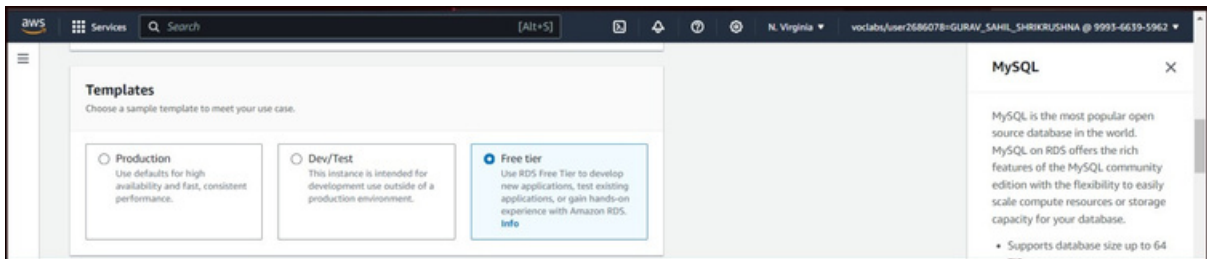


Fig 5

Then name it "DB" in the DB Instance Identifier settings. Name "admin" in credential settings for master username as shown in Fig 6

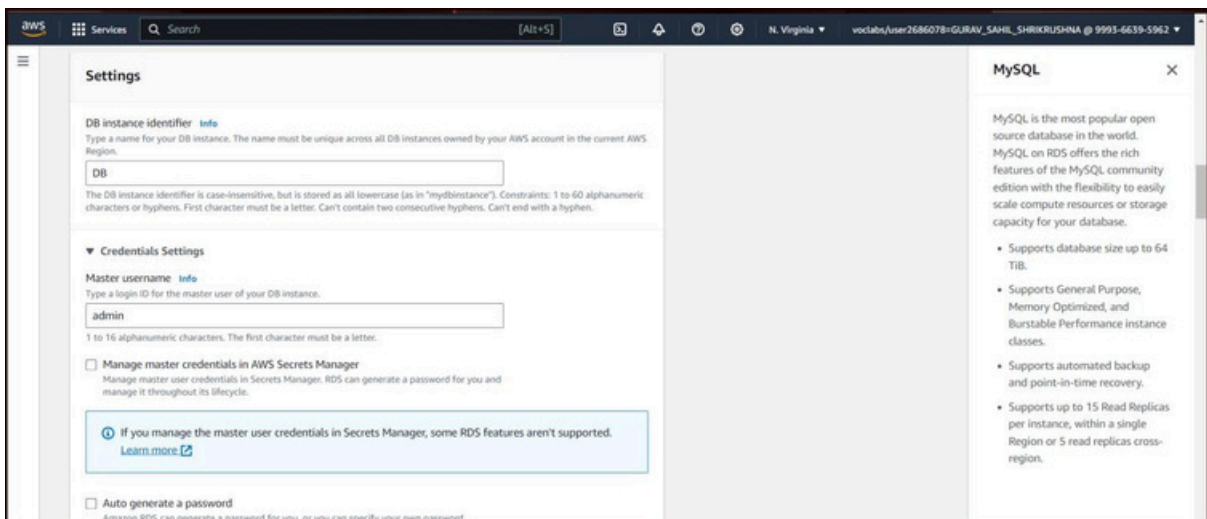


Fig 6

Then set the password. Select "Burstable Classes" and select "t2.micro" in the DB instance class as shown in Fig 7 .

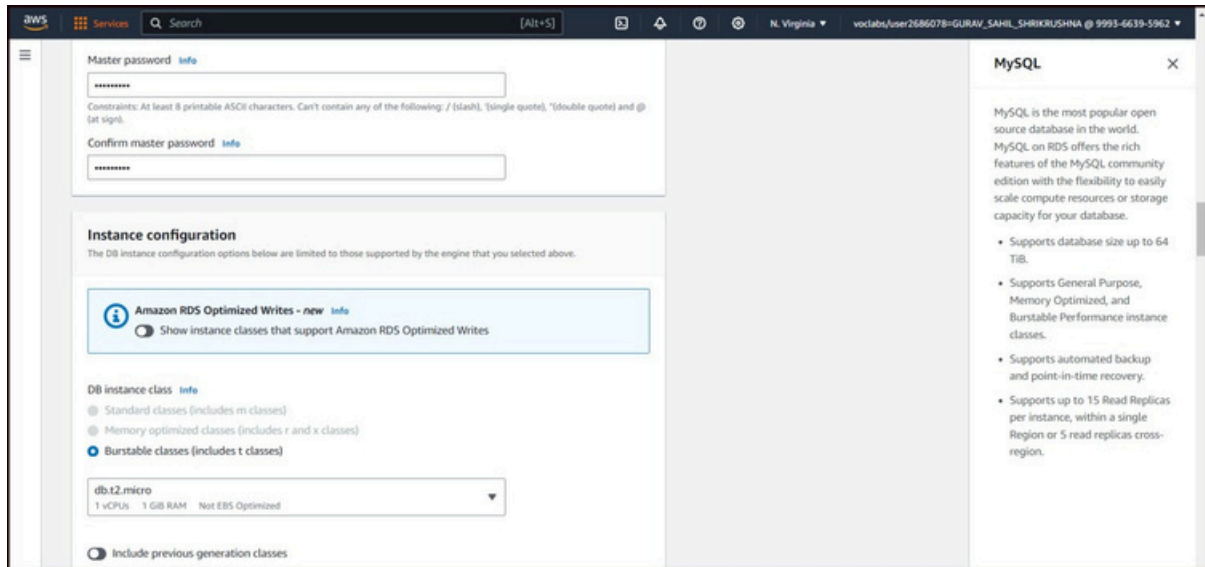


Fig 9

Disable "Enable storage autoscaling" in Storage and keep other remains same as shown in Fig 8.

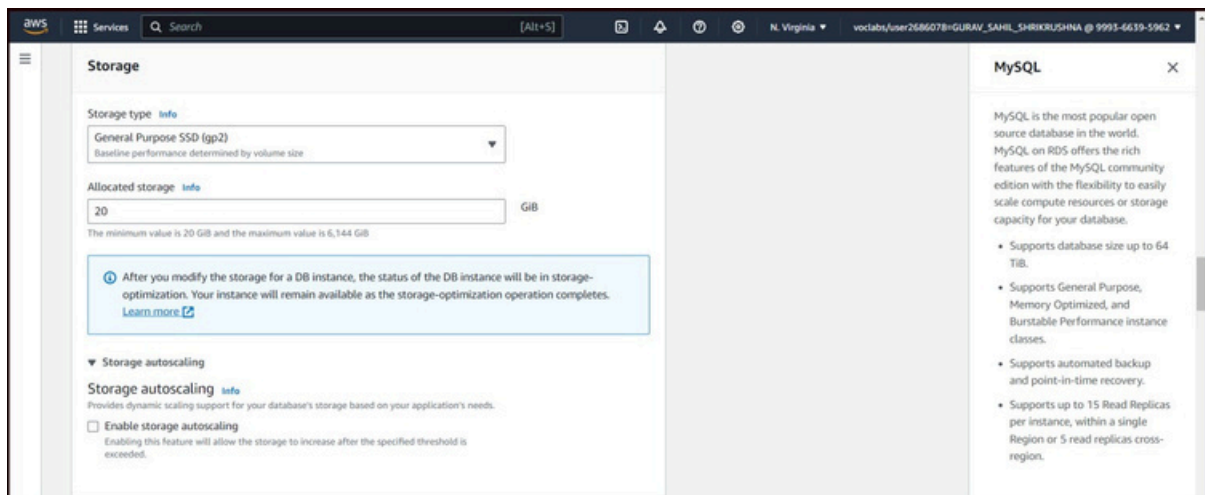


Fig 8

Select "Do not connect to EC2 compute resource" in Connectivity, then select "Default VPC" in VPC and enable public access as shown in Fig 9.

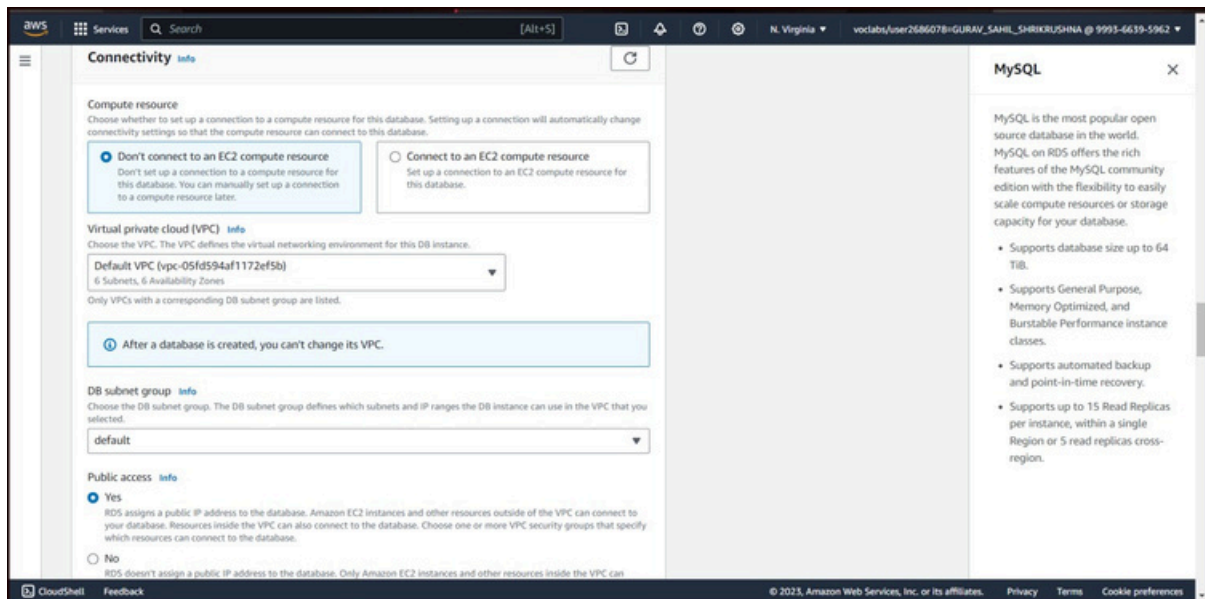


Fig 9

In VPC Security Group select "Create New" for Security Group, name it "Database Security Group" as shown in Fig 10. Do not change other options.

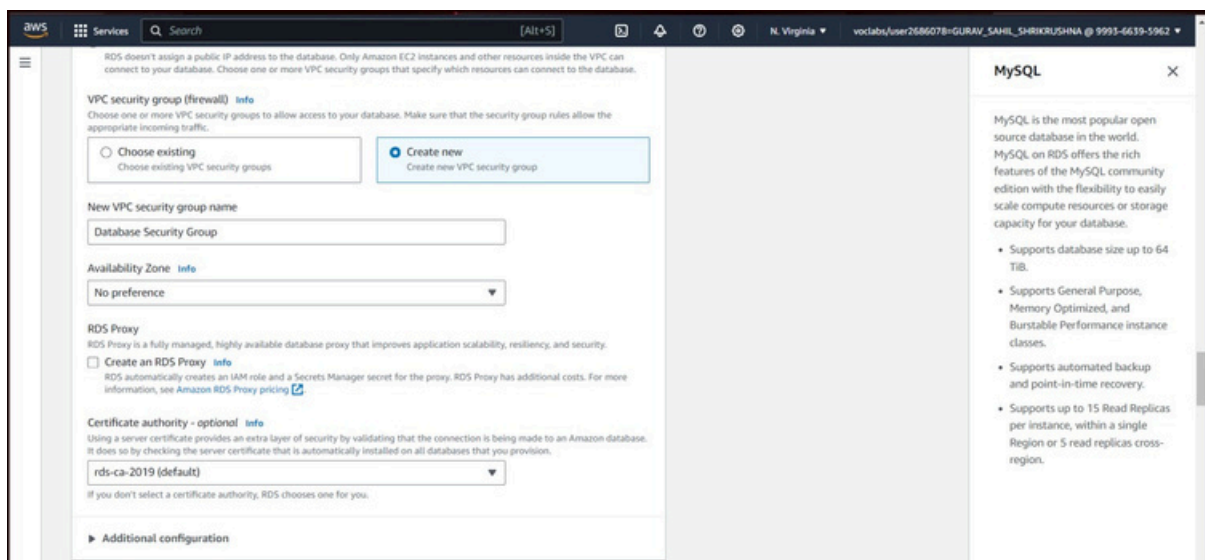


Fig 10

Select "Password Authentication" in Database authentication and disable "Enable Enhanced Monitoring" in Monitoring as shown in Fig 11.

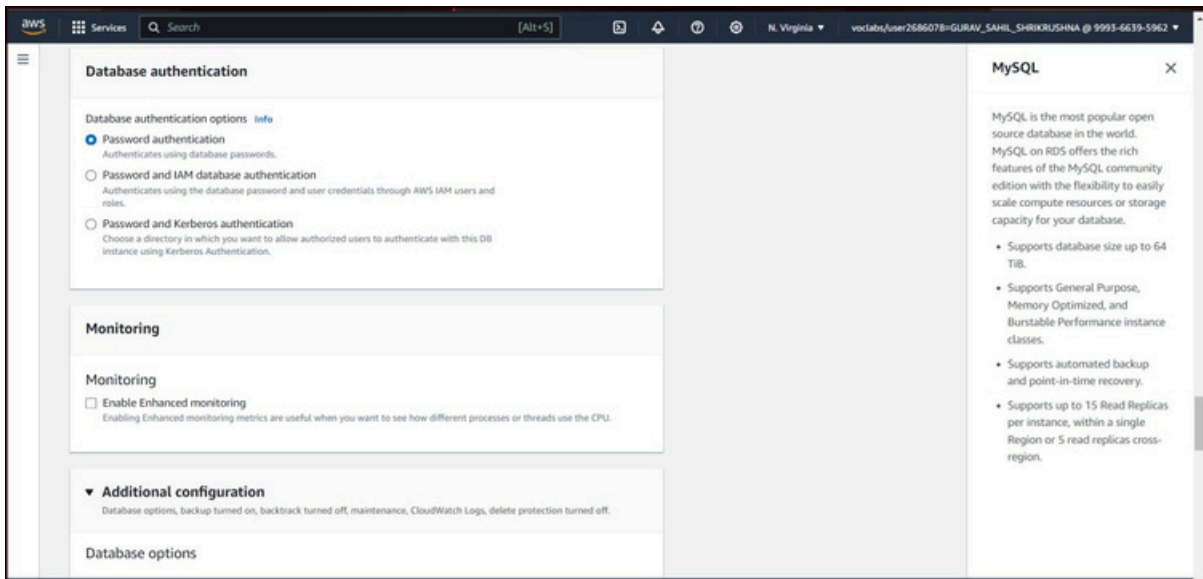


Fig 11

Then in additional configuration give name as "college" for initial database name as show in Fig 12.

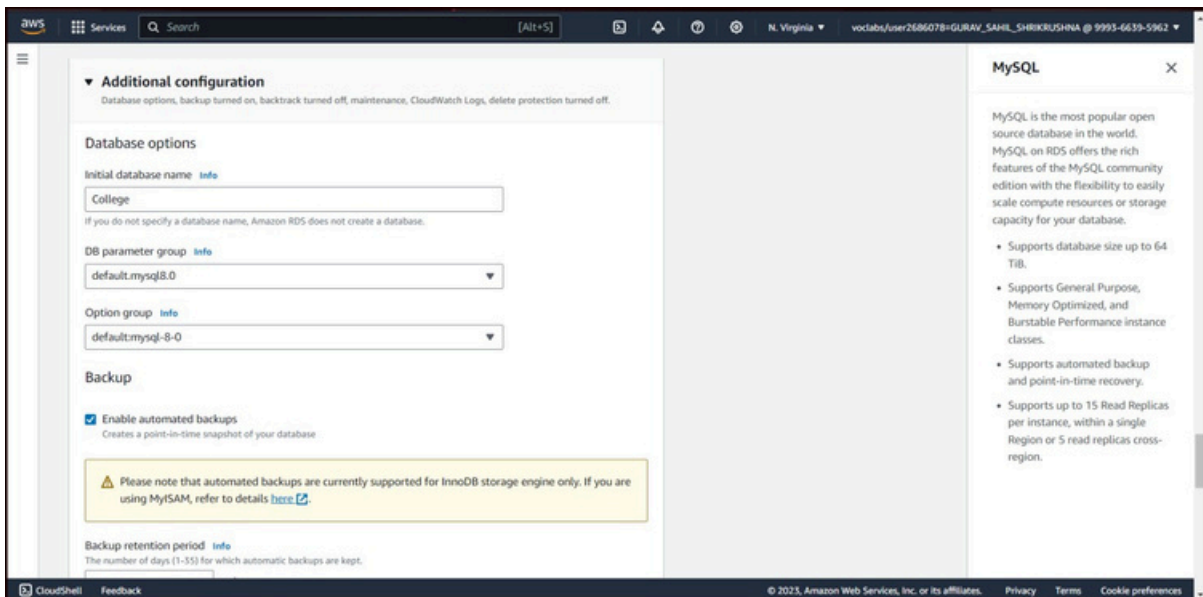


Fig 12

Select "0" days in the backup retention period. Then select "No priority" in the backup window as shown in Fig 13.

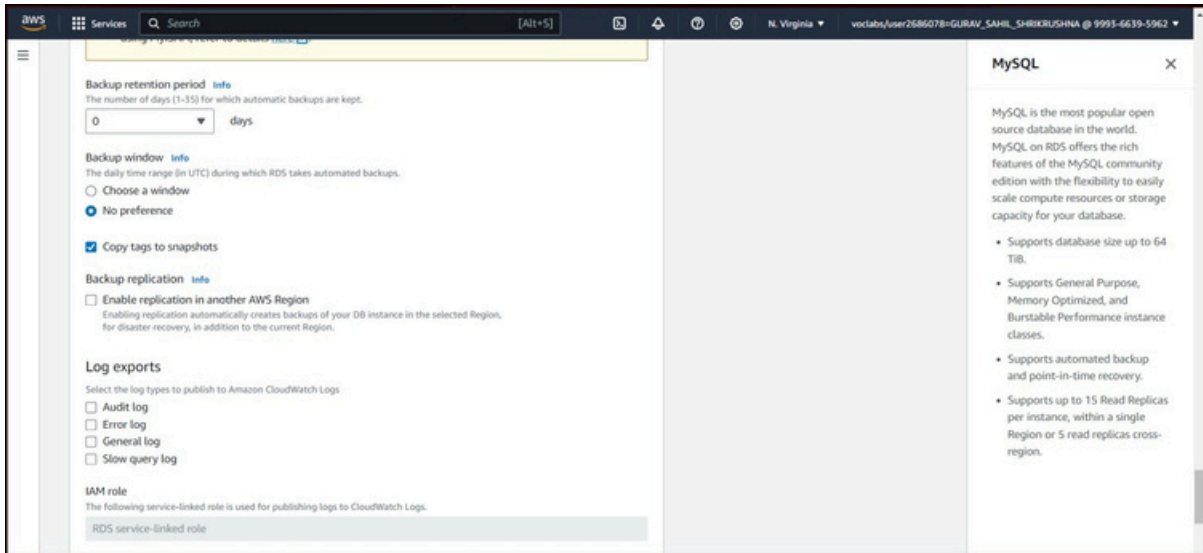


Fig 13

Then in Maintenance window select “No preference” as shown in Fig 14.

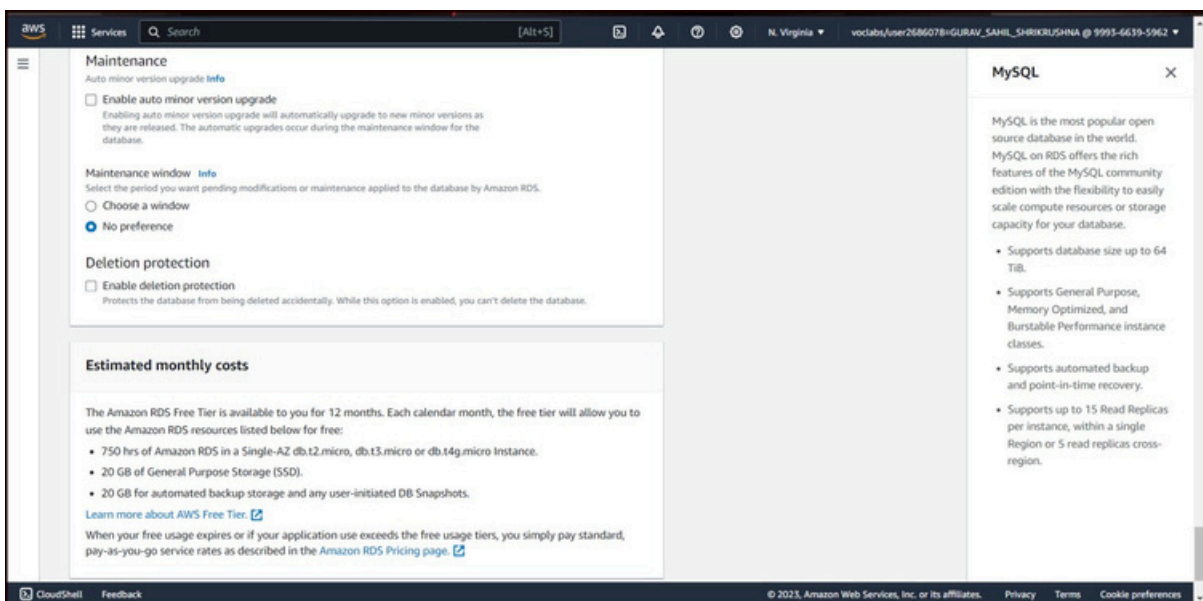


Fig 14

Then click "Create Database" as shown in Fig 15.

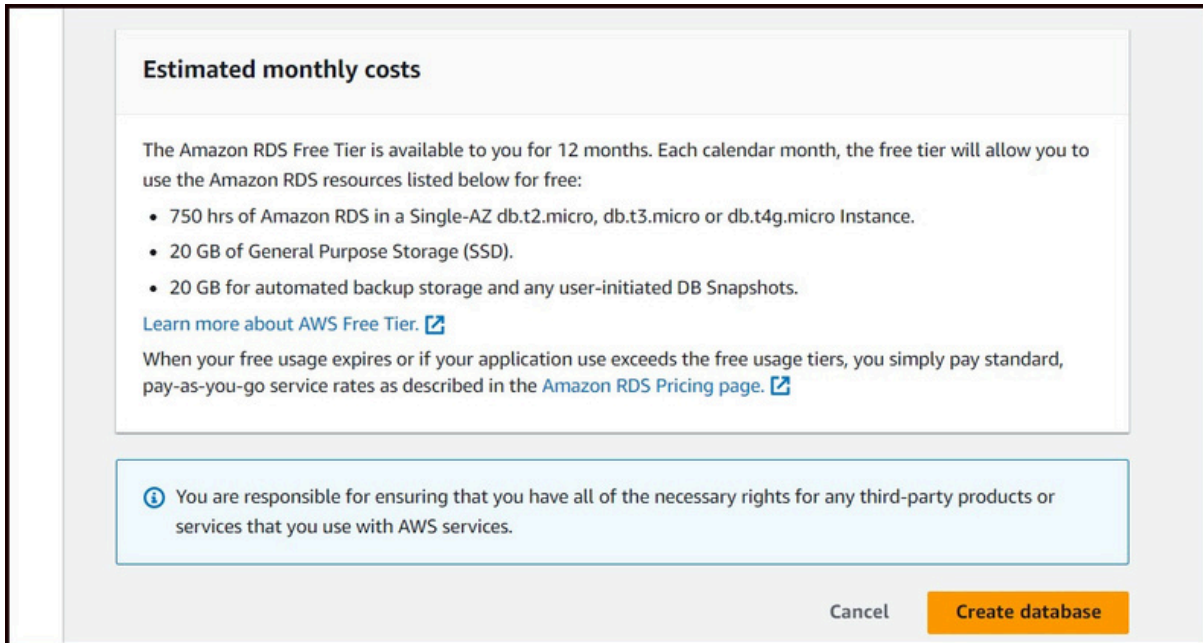


Fig 15

Then in Figure 16 we can see the database instance. Click on the created database.

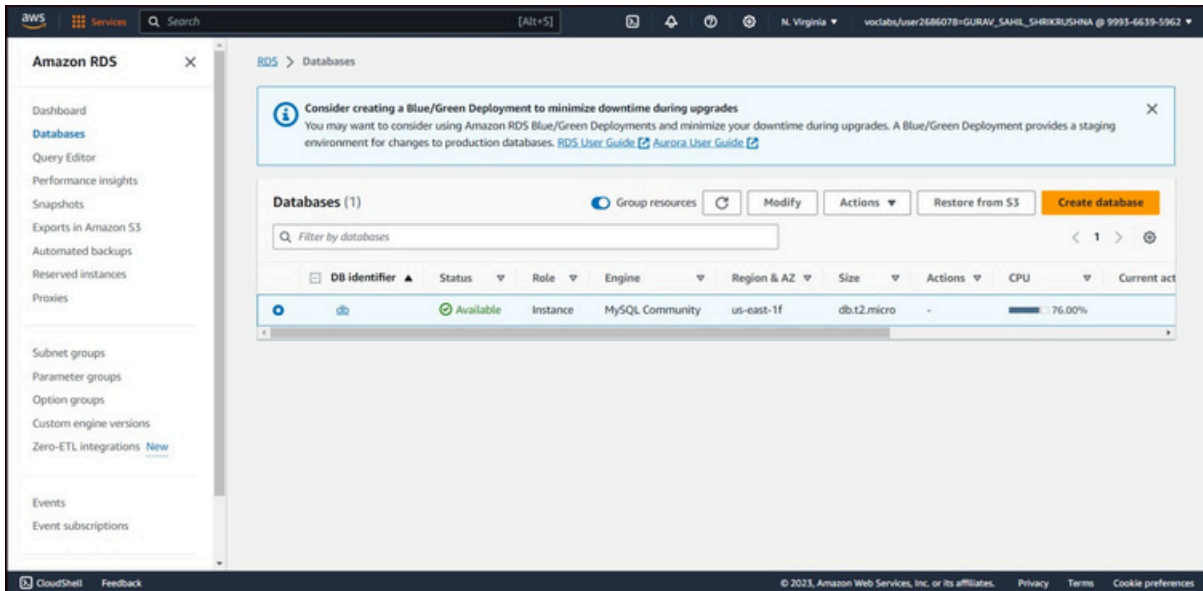


Fig 16

In Fig 17 we can see details regarding the database instance. In that, click on VPC Security Groups.

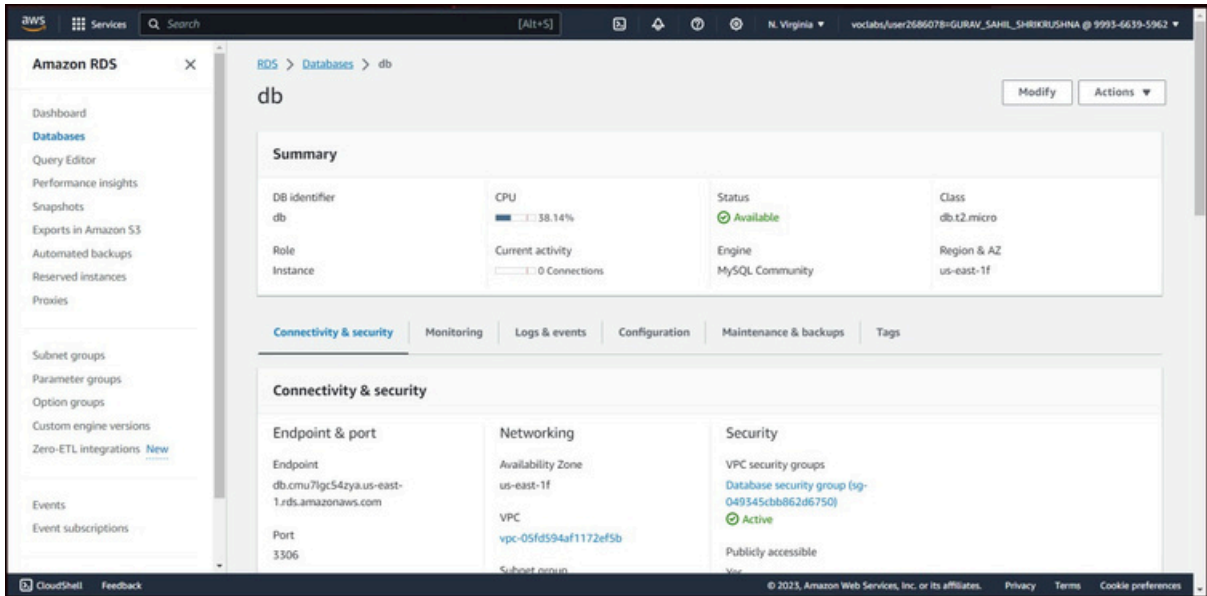


Fig 17

Select the "Inbound Rules" tab in the Security group and click "Edit Inbound Rules" as shown in Fig 18.

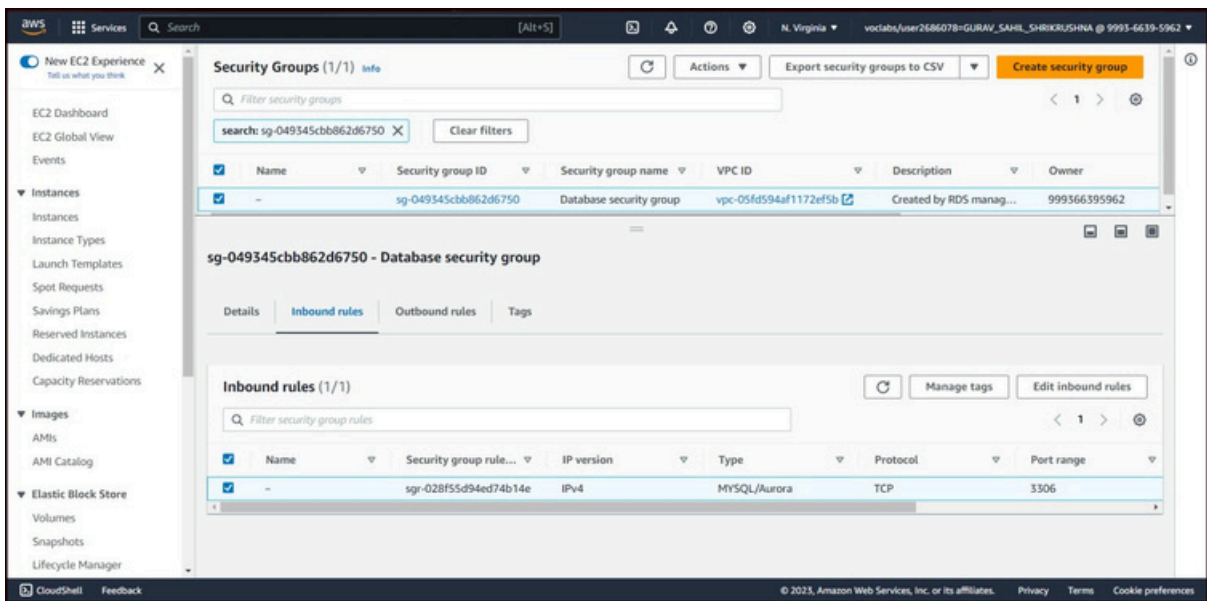


Fig 18

In the "Edit inbound rules" click on "Add rule". then in type select "All traffic" and for the source select "Anyway IPV4" after that click on save rules as show in Fig 19.

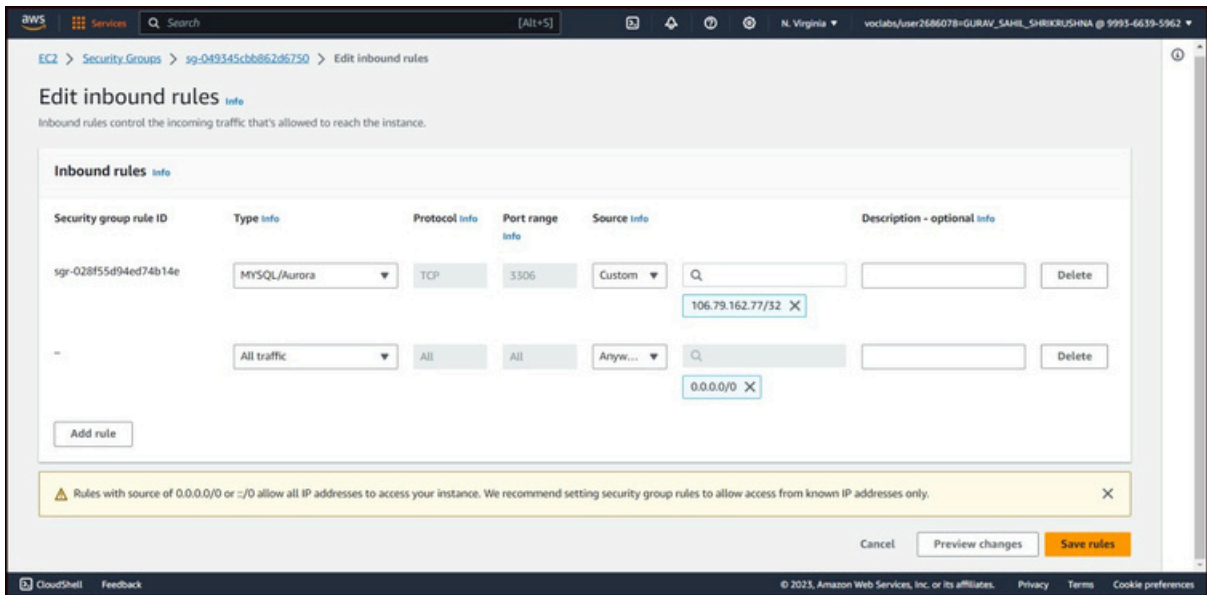


Fig 19

Then open MySQL Workbench, we get the interface as shown in Fig 20. In that select "Connect to Database" from the Database.

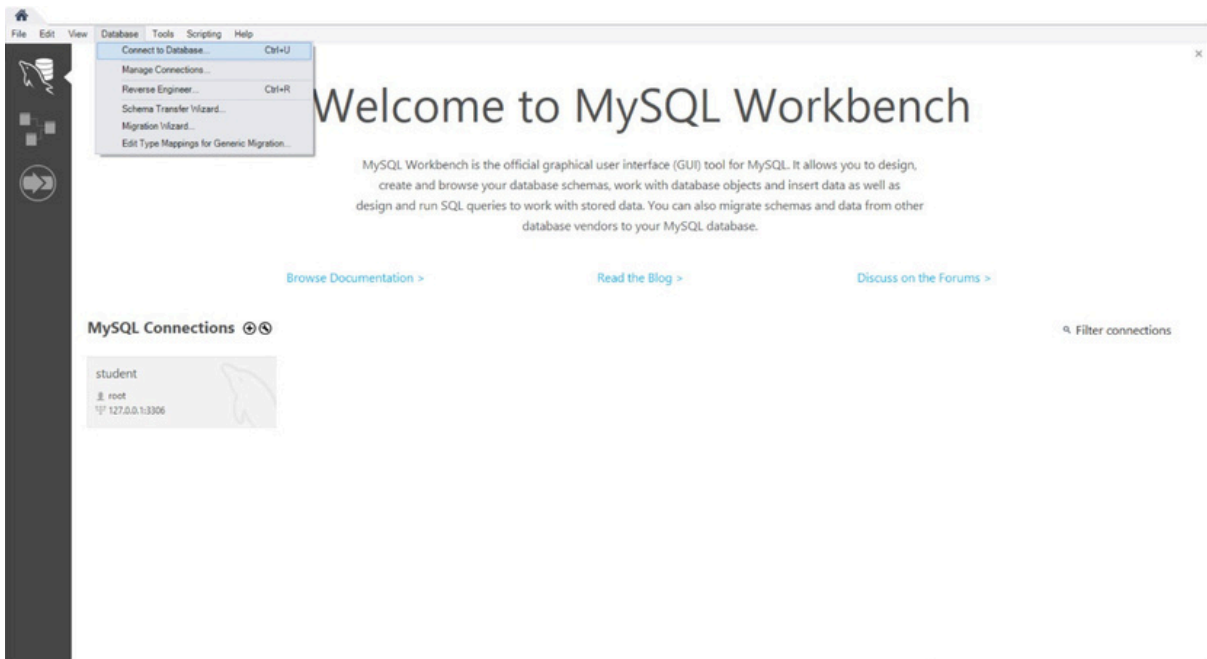


Fig 20

After clicking "Connect to Database" we get a window similar to Fig 21. Copy the "Endpoint" from the created database instance for hostname and give the

same name for username which we gave at the time of database instance creation and then click on "ok".

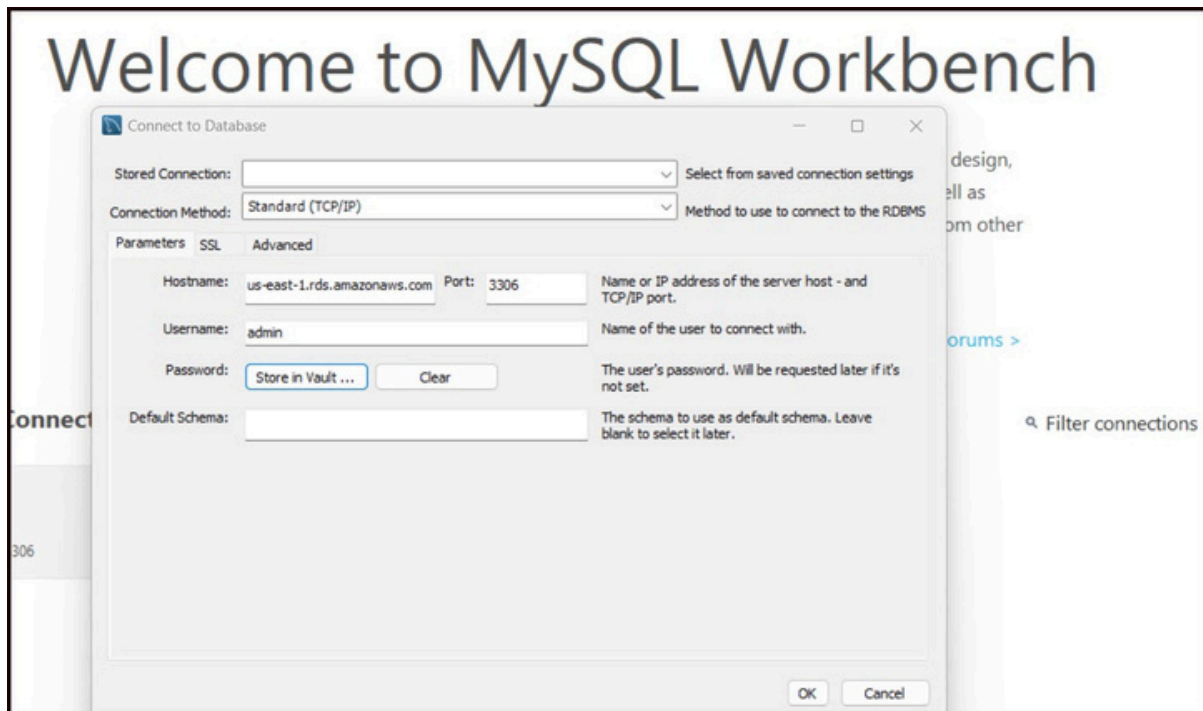


Fig 21

Then open that created schema, we will get an interface similar to Fig 22. At the time of database instance creation we have given the name of the database as "College" which we can see in Fig 22, it means that the database instance has connected successfully.

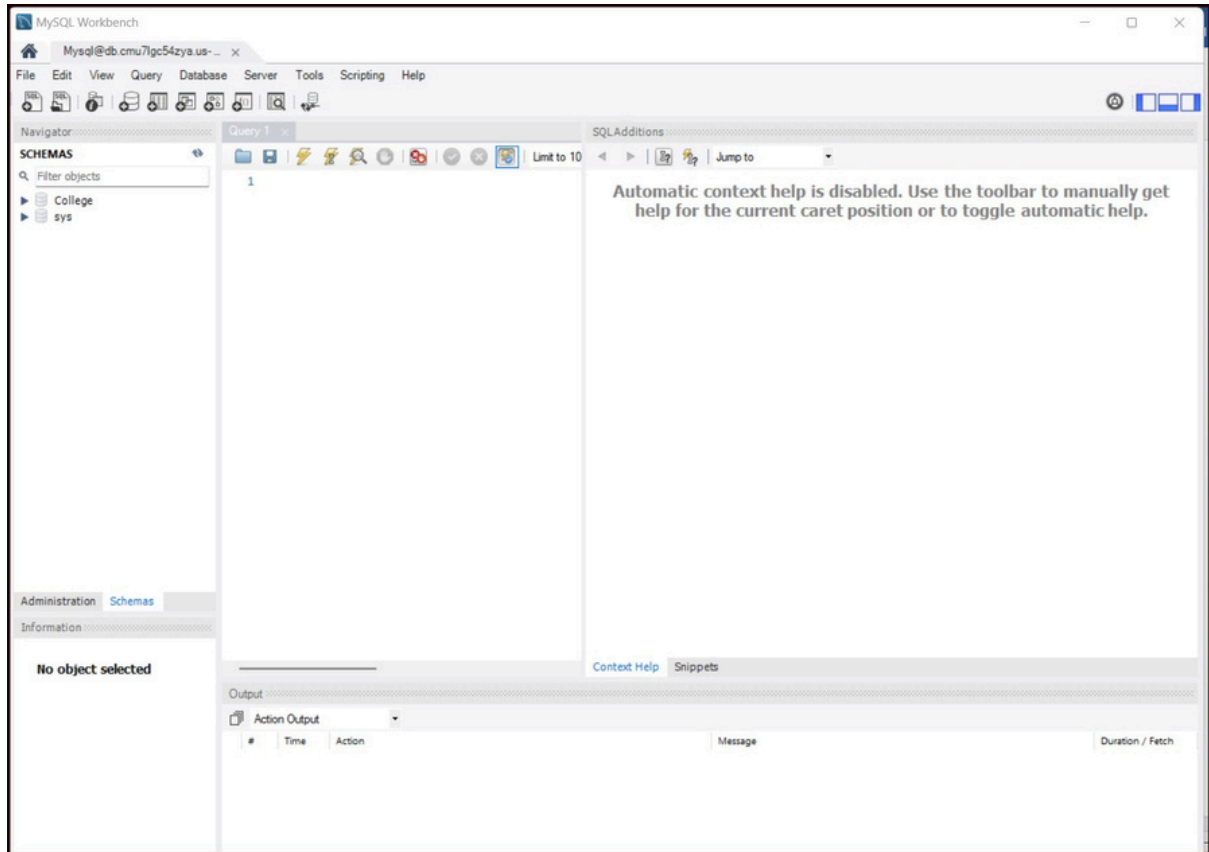


Fig 22

To confirm the connection we create a table inside the “College” database, that table is successfully created we can see in Fig 23.

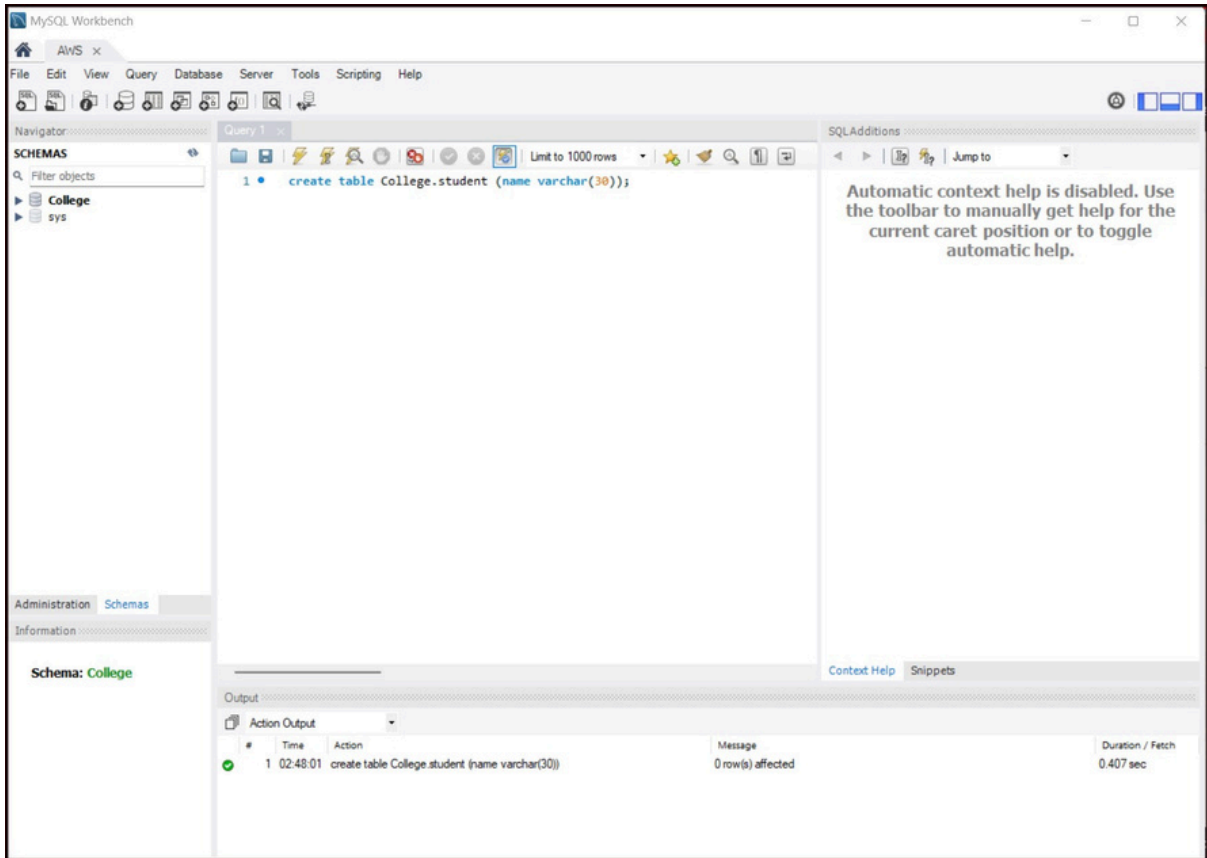


Fig 23

Then to delete the database instance first clear the inbound and outbound rules from the security group, then select "Actions" and click "Delete" as shown in Fig 24.

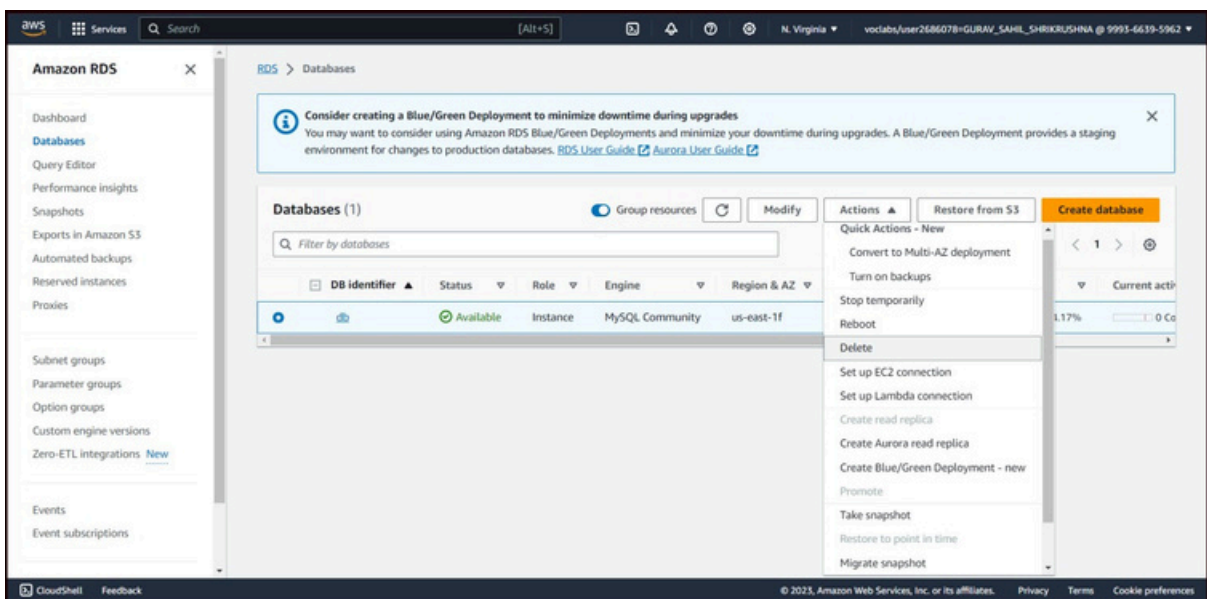


Fig 24

Write “Delete Me” in Delete DB Instance and click on “Delete” button as shown in Fig 25. Database instance has been deleted successfully.

Delete db instance? ✕

Are you sure you want to Delete the **db** DB Instance?

Create final snapshot
Determines whether a final DB Snapshot is created before the DB instance is deleted.

I acknowledge that upon instance deletion, automated backups, including system snapshots and point-in-time recovery, will no longer be available.

To confirm deletion, type *delete me* into the field.

delete me

⚠ We strongly recommend taking a final snapshot before instance deletion since after your instance is deleted, automated backups will no longer be available.

Cancel **Delete**

Fig 25