D Y PATIL INTERNATIONAL UNIVERSITY
AKURDI PUNE

School of Computer Science, Engineering and Applications (SCSEA)
B.C.A. TY (CCSA)
Subject: Advanced Cloud Computing (P)

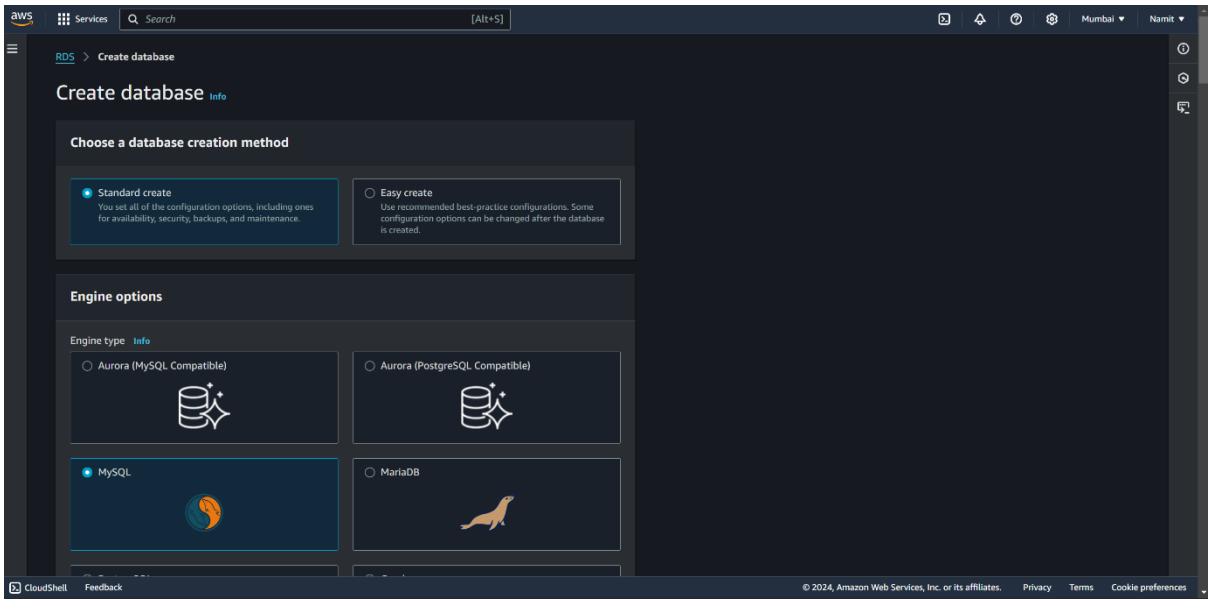
Name of the Student: Namit Agarwal **PRN:** 20220801019

Title of Practical: RDS instance creation

Step 1: Create a Database in RDS

1. **Go to the RDS Service**
    - In your AWS Management Console, search for and go to the **RDS** service.
2. **Click on Create Database**
    - Click on the **Create database** button.
3. **Choose a Database Creation Method**
    - Select **Standard create** in the 'Choose a database creation method' section.
4. **Select Engine Type**

- In the 'Engine Options' section, choose **MySQL**.



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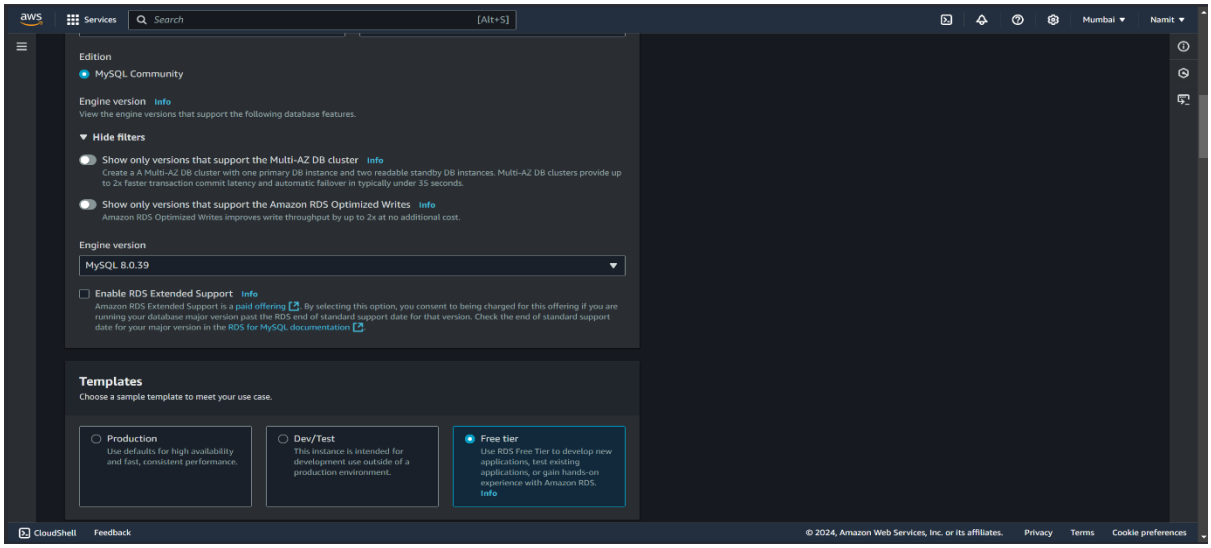
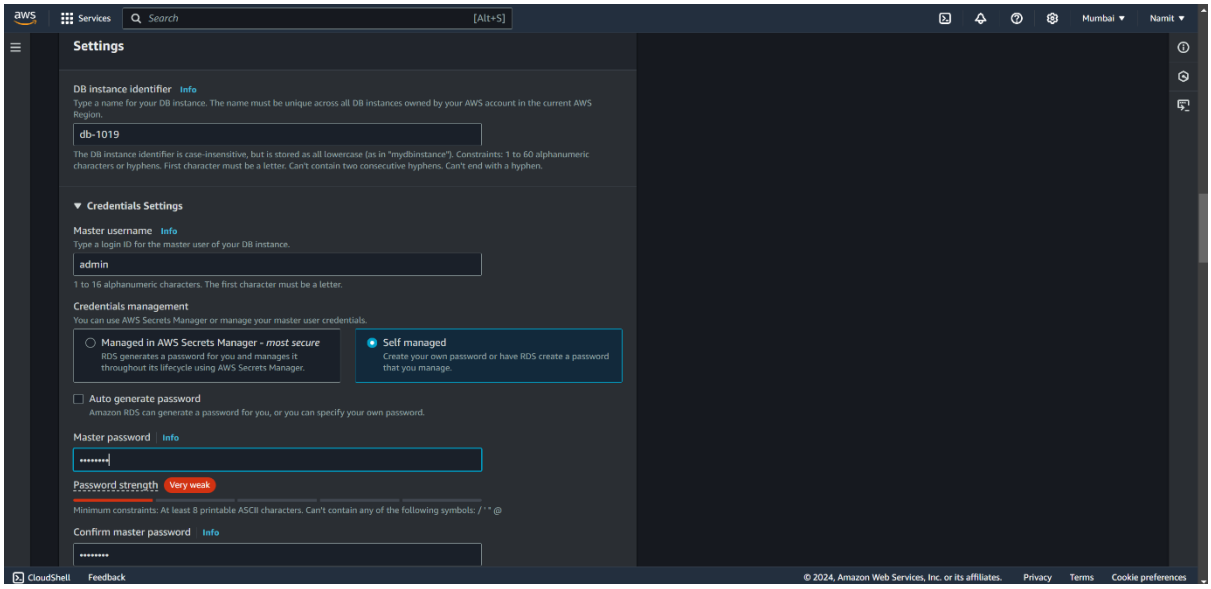
5. **Select Free Tier Template**

- In the 'Templates' section, select **Free Tier**.



6. **Enter DB Instance Identifier and Credentials**

- In the 'Settings' section, enter the **DB instance identifier** (name for your RDS instance) and the **credentials** (username and password) for the root user.



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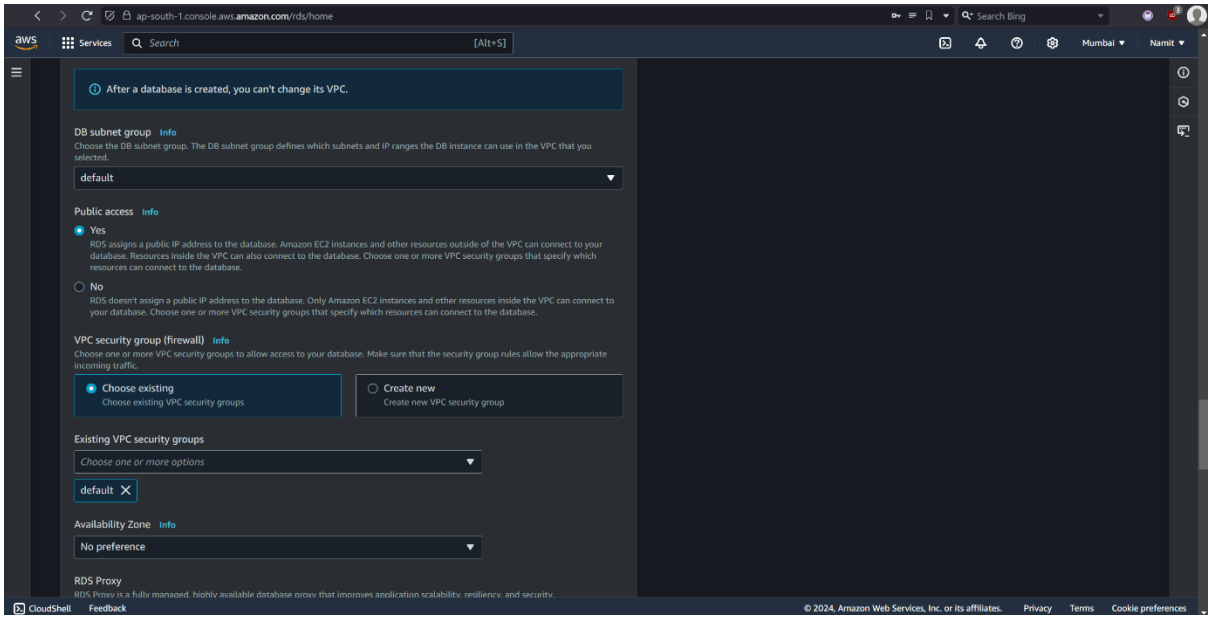
7. **Configure Connectivity**

- In the 'Connectivity' section, select **Public Access** as **Yes**, and choose the **default VPC**.

8. Create the Database

- Scroll down and click on Create Database.
- Wait for the database to be created successfully.



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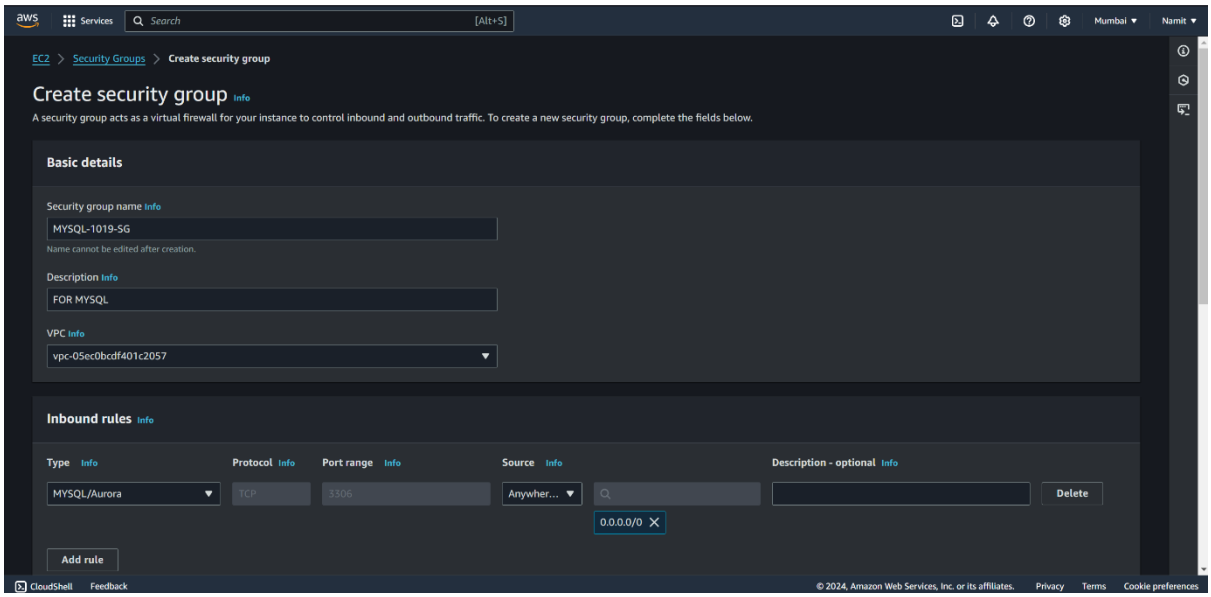
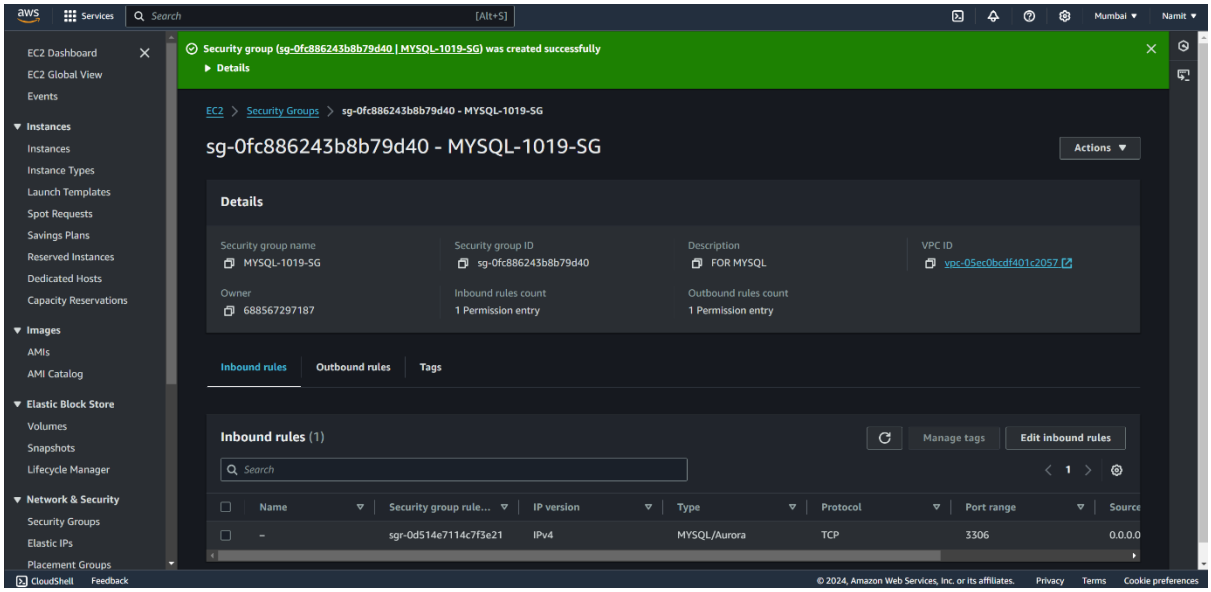
Step 2: Create a Security Group

1. **Search for Security Groups**
   - After creating the database, search for **Security Groups** in the AWS Management Console.
2. **Create a Security Group**
   - Click on the **Create Security Group** button.
3. **Enter Basic Details**
   - In the 'Basic Details' section, enter the **Security Group Name** and **Description**.
4. Add Inbound Rule
   - In the 'Inbound Rule' section, click on Add Rule.
   - Select Type as MYSQL/AURORA and Source as Anywhere IPv4 from their respective dropdowns.



5. **Create the Security Group**
    - Click on **Create Security Group**.



Step 3: Modify RDS to Use the Security Group

1. **Select Your Database**
    - Go back to the **database** you just created.
    - Select the database and click on the **Modify** button.

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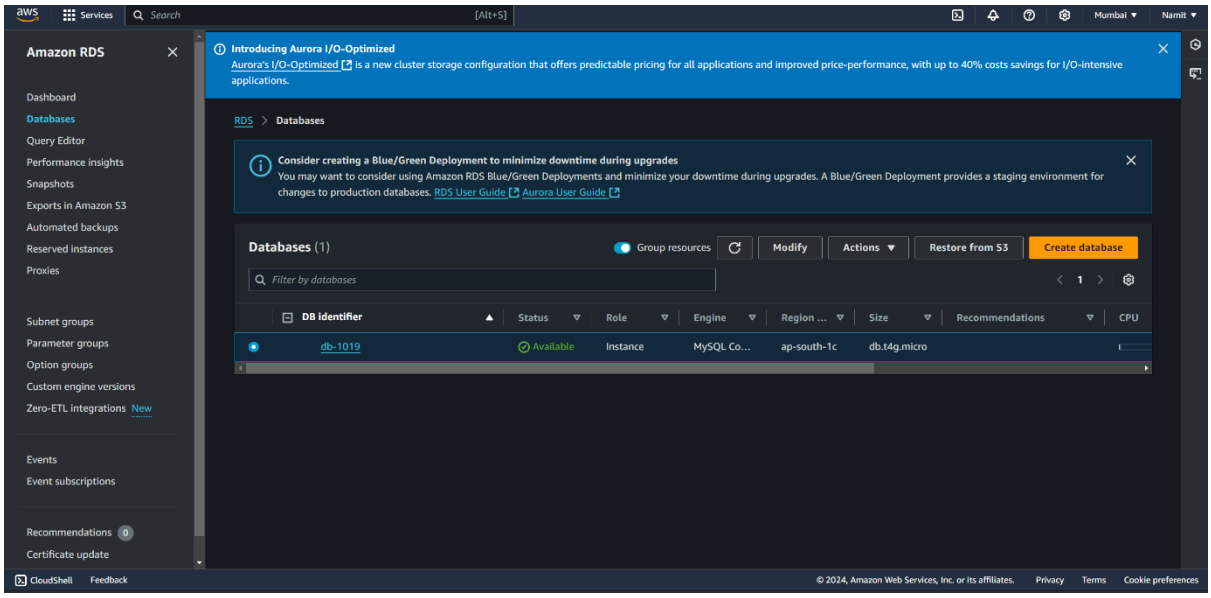
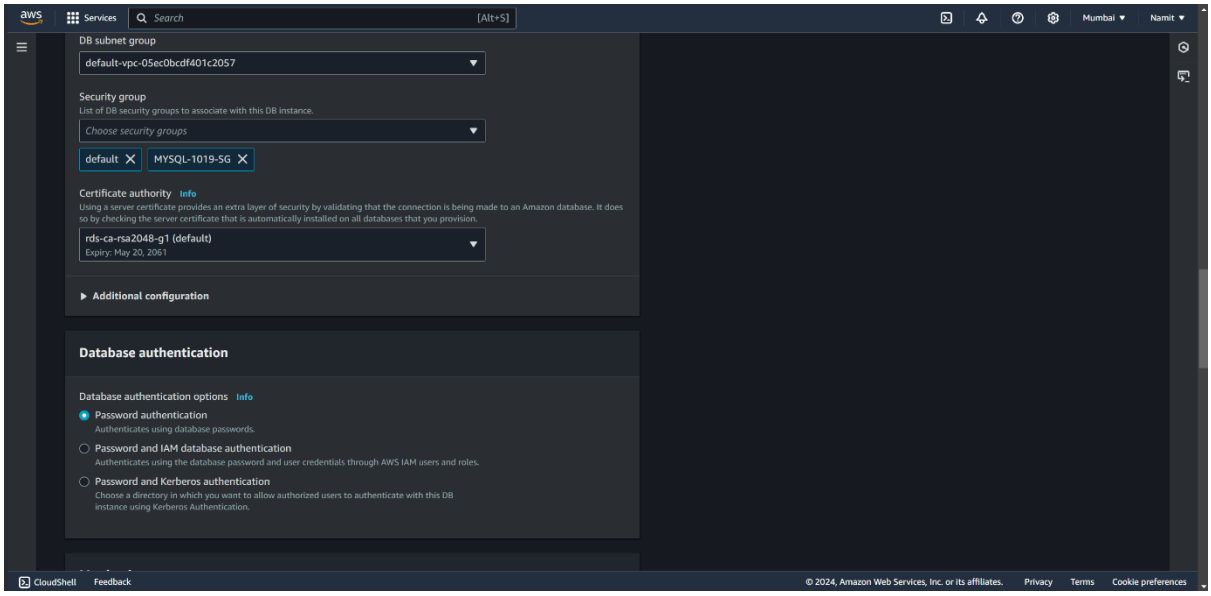


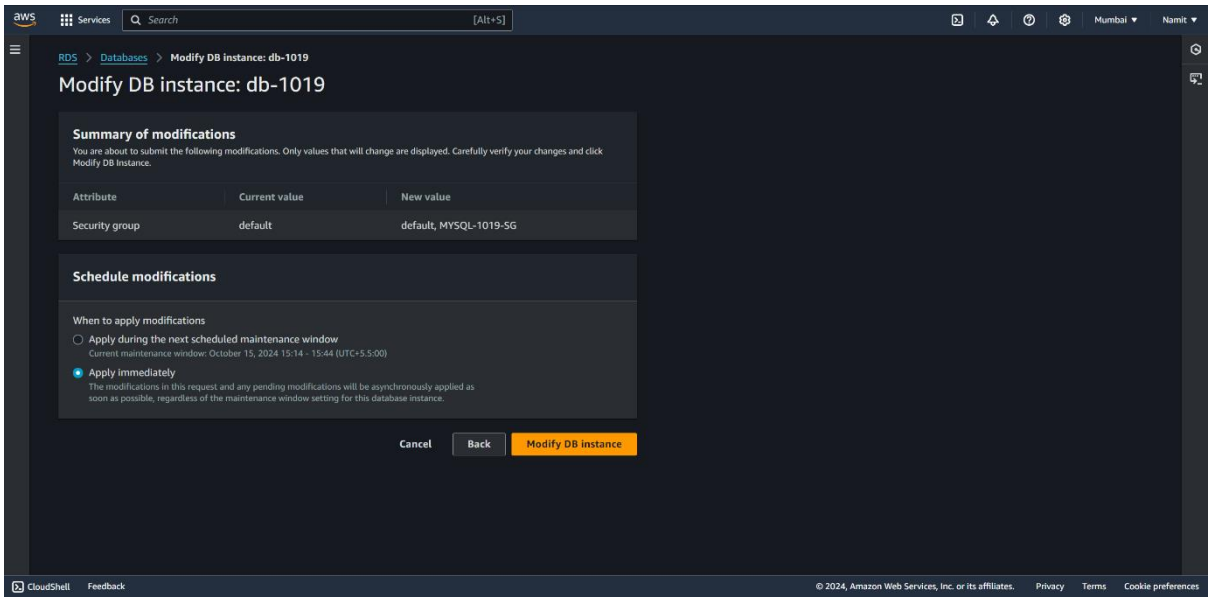
2. **Select Security Group**

- Scroll down to the 'Connectivity' section and in the **Security Group** field, select the **Security Group** you just created.



3. **Apply Changes**

- Click on **Continue**, then in the 'Schedule Modifications' section, select **Apply Immediately** and click on **Modify DB Instance**.



Step 4: Install and Configure MySQL Workbench

1. **Download MySQL Workbench**
   - Go to the MySQL Workbench Website and download the MySQL Workbench.
   - Install it by following the guided setup.
2. **Open MySQL Workbench**
   - After installing, open the **MySQL Workbench**.
3. **Create a New MySQL Connection**
   - In the 'My Connections' section, click the **+** icon to create a new connection.

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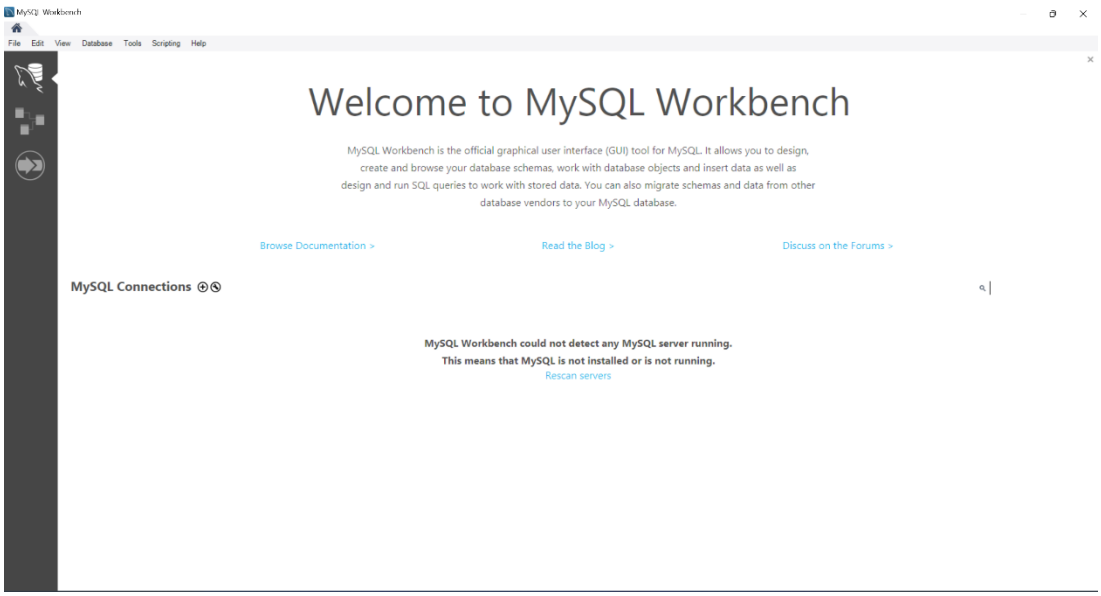
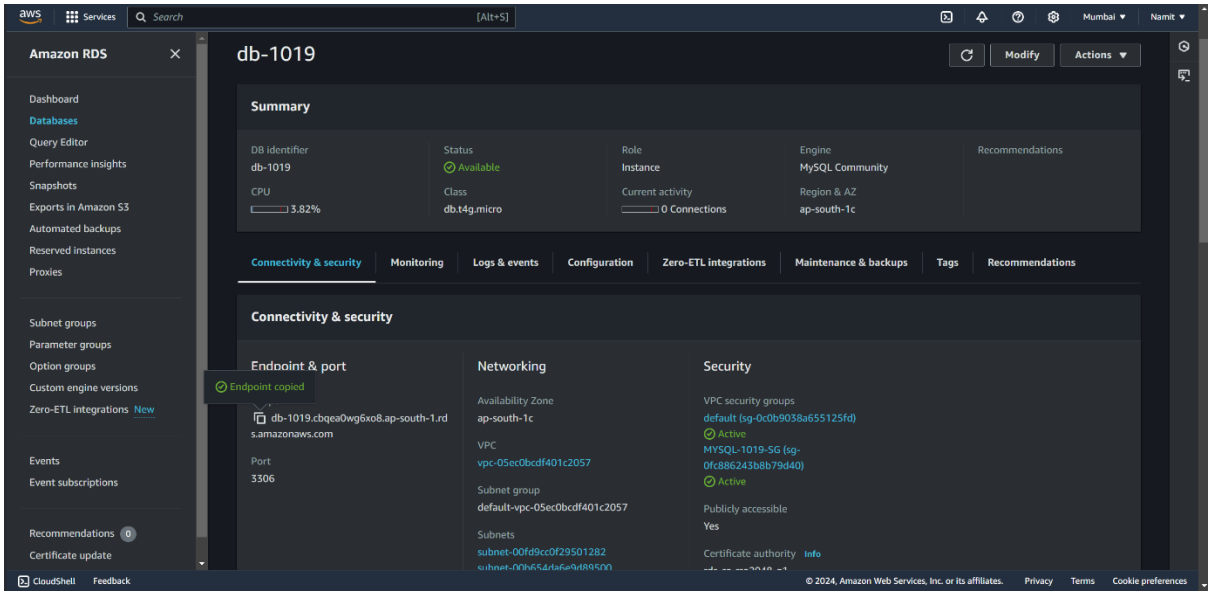
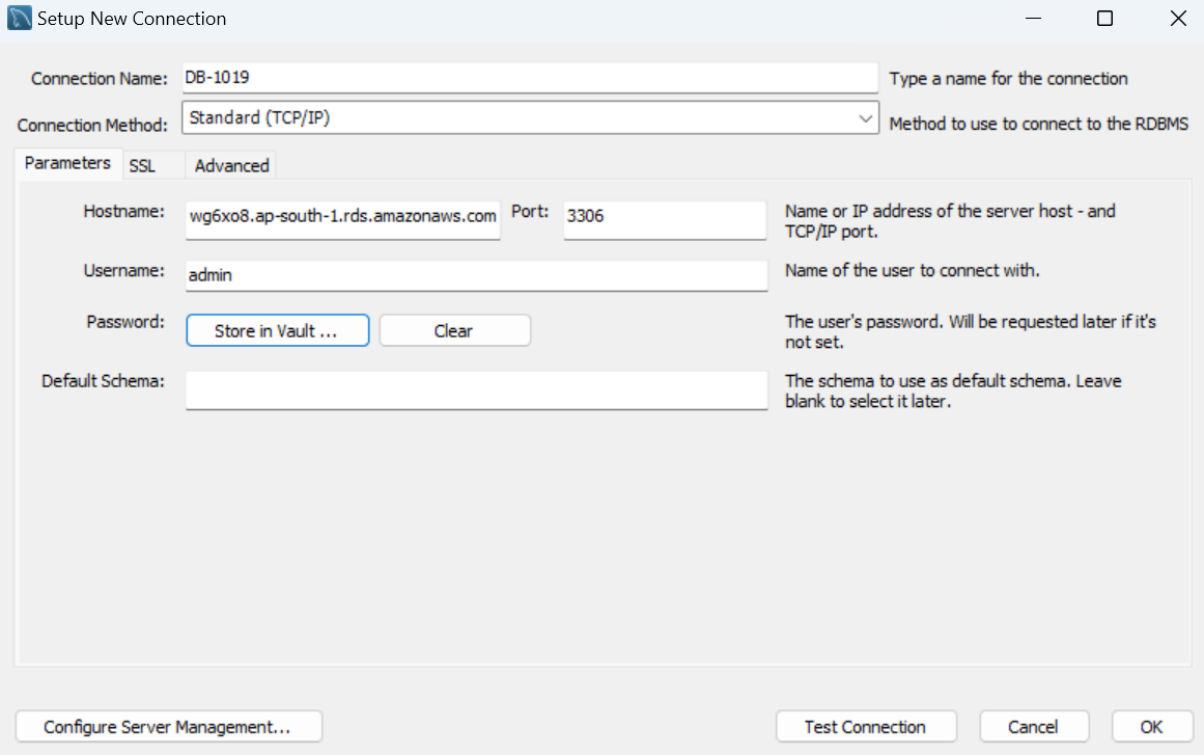


4. **Enter Hostname and Credentials**

- Go back to your **RDS instance** in the AWS Console, and copy the **endpoint** from the 'Connectivity & Security' tab.



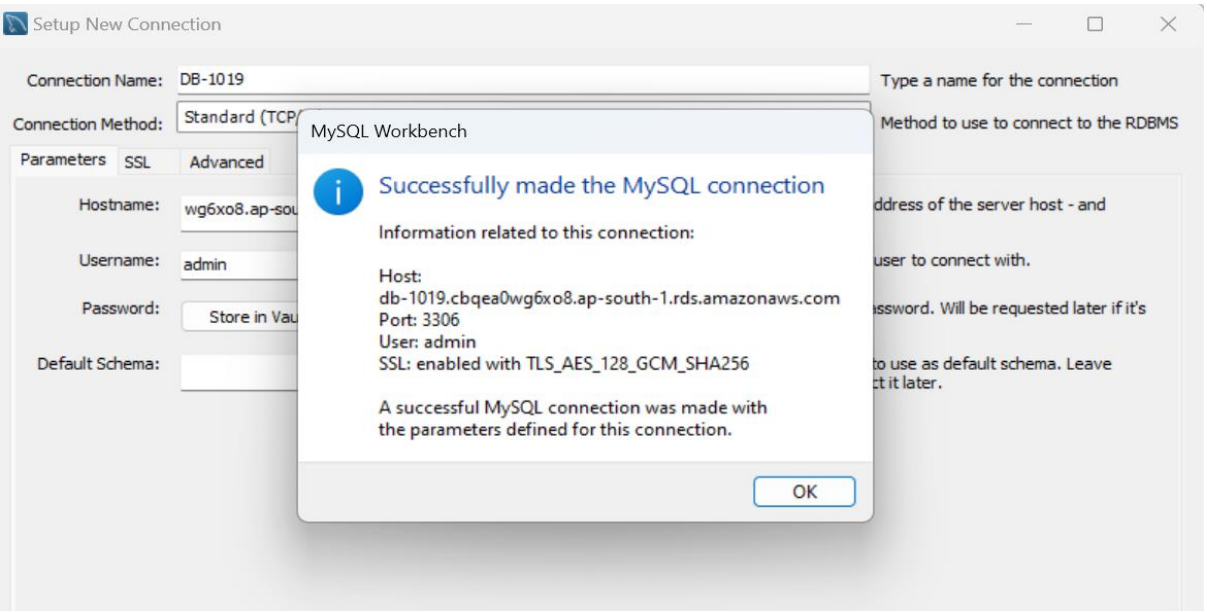
- In MySQL Workbench, paste this endpoint into the **Hostname** field.
- Enter a **Connection Name**, **Master/Root Username**, and click **Store in Vault** to enter your password.



5. **Test Connection**

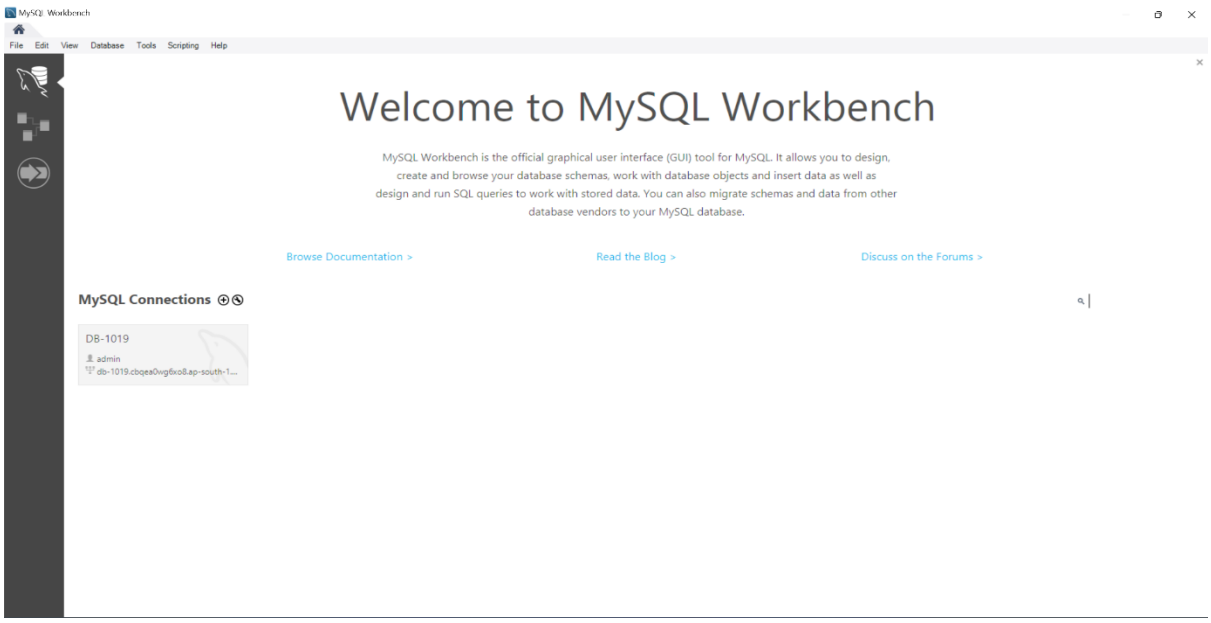
- Click on the **Test Connection** button. If successful, you will see a message like:

- Click **OK** to close the popup, and then click **OK** again to create the connection.



6. **Open the Connection**

- Click on the new connection to open it.



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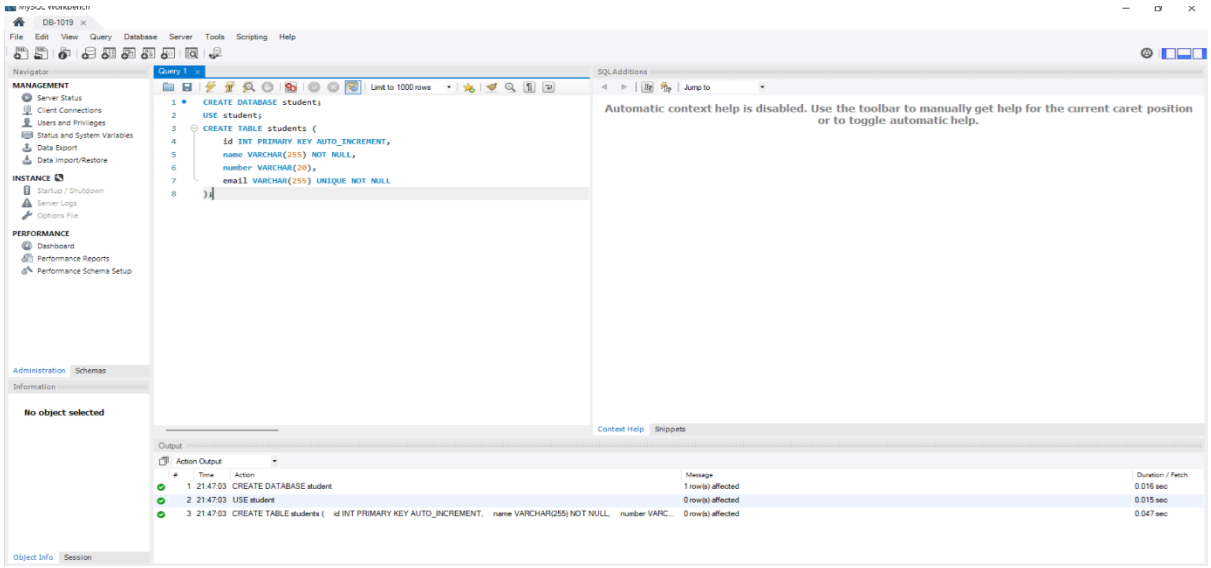
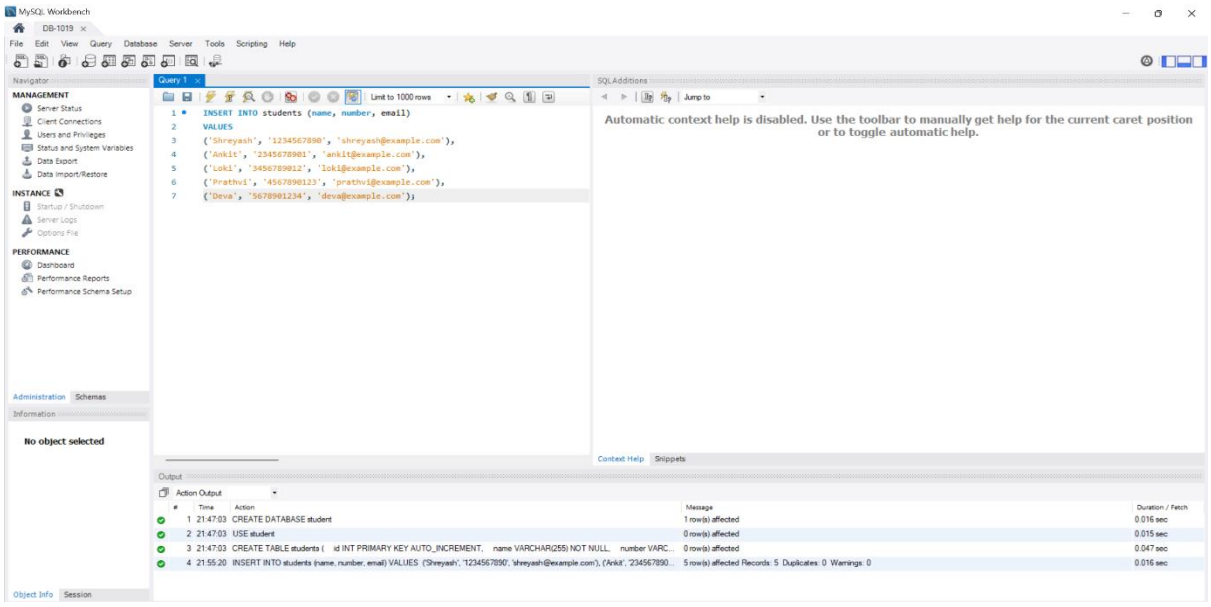
Step 5: Create Database and Table in MySQL Workbench

1. **Create Database and Table**



Step 6: Insert Data into Table

1. **Insert Data**



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Step 7: View Data from the Table

1. **View Data**