EXPERIMENT- 09

Student Name: Divas Kumar   **UID: 23BCS13735**

Branch: BE-CSE   **Section/Group: KRG 1(B)**

Semester: 05   **Date of Performance: 28/10/25**

Subject Name:ADBMS   **Subject Code: 23CSP-333**

1. Aim: To create and connect a PostgreSQL database instance on **Amazon RDS (Relational Database Service)**

2. Objective:

- To understand the steps involved in launching a database instance using Amazon RDS.
- To configure a database for public access and connect it with a local client (pgAdmin).
- To perform basic SQL operations (CREATE, INSERT, SELECT).

3. Tools / Software

- AmazonWeb Services (AWS)
- PostgreSQL
- pgAdmin 4
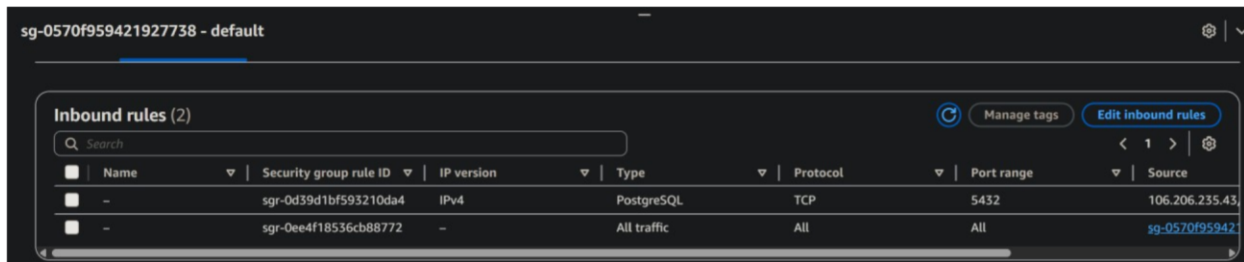- RDS (Relational Database Service)

4. Program:

Step 1: Create and Configure Database Instance

1. Login to AWS Console → RDS → Create database, select Standard create and PostgreSQL under the Free Tier template.
2. Set DB identifier: dbms-db, Username: postgre, choose db.t3.micro, 20 GB gp2 storage,and enable Public access.
3. Click Create database and wait until the status shows Available in the RDS dashboard.
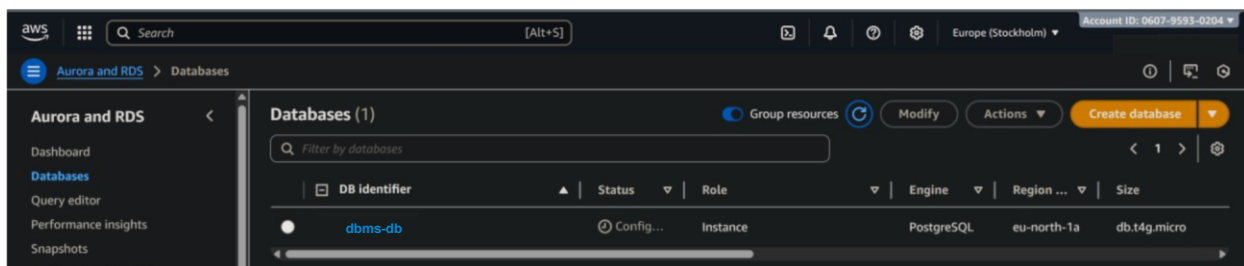
Step 2: Configure Security Group (Allow Local Access Only)

1. In AWS Console → go to RDS → Databases → click your DB (dbms-db).
2. Open the Connectivity & Security tab.
3. Under VPC security groups, click the linked group name (it opens EC2 security groups).
4. Click Edit inbound rules → Add rule
   - Type: PostgreSQL
   - Protocol: TCP •
     Port: 5432
   - Source: My IP

   5.ClickSaverules.

	Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
	-	sgr-0d39d1bf593210da4	IPv4	PostgreSQL	TCP	5432	106.206.235.43,
	-	sgr-0ee4f18536cb88772	–	All traffic	All	All	sg-0570f95942

sg-0570f959421927738 - default
Inbound rules (2)

Step3:ConnectDatabaseUsingpgAdmin

1. Open pgAdmin 4 on your local system.
2. Right-click Servers → Create → Server.

3. Under the General tab, enter the name: postgre.
4. Under the Connection tab, fill in the following details:
   - Host name/address: dbmsdb.xxxxxxx.rds.amazonaws.com
   - Port: 5432 • Username: postgre • Check Save password.
5. Click Save to connect your RDS PostgreSQL database.