EXPERIMENT- 09

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Semester: 05   **Date of Performance: 30/10/25**
Subject Name:ADBMS   **Subject Code: 23CSP-333**

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

2. Objective:

⬜ To understandthe steps involved in launching a database instance using Amazon RDS.
⬜To configureadatabase for public access and connect it with a local client (pgAdmin). To
⬜performbasic SQL operations (CREATE, INSERT, SELECT).

3. Tools / Software

⬜ AmazonWebServices (AWS)
⬜ PostgreSQL
⬜ pgAdmin 4
⬜ RDS (Relational Database Service)

4. Program:

Step1:CreateandConfigure Database Instance

1. LogintoAWS Console → RDS → Create database, select Standard create and PostgreSQLunder the Free Tier template.
2. Set DBidentifier: ruchi-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 (ruchi-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.
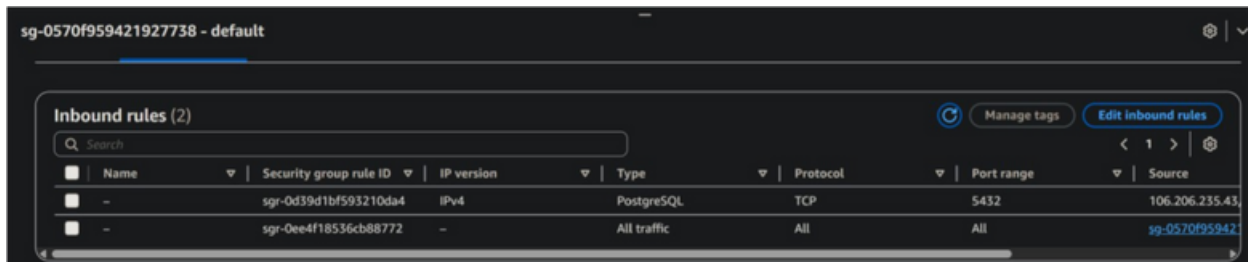
Step3:ConnectDatabaseUsingpgAdmin
1. Open pgAdmin 4 on your local system.
2. Right-click Servers → Create → Server.
3. Under the General tab, enter the name: postgre.
4. Under the Connection tab, fill in the following details:
   - Host name/address: ruchidb.xxxxxxx.rds.amazonaws.com
   - Port: 5432   Username: postgre   Check Save password.
5. Click Save to connect your RDS PostgreSQL database.