EXPERIMENT-09

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

Semester: 05 Date of Performance: 30/10/25

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).

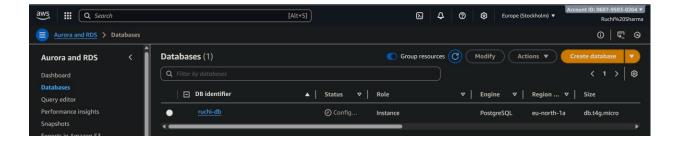
3. Tools / Software

- Amazon Web 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: 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 \rightarrow go to RDS \rightarrow Databases \rightarrow 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 \rightarrow Add rule
 - Type: PostgreSQL
 - Protocol: TCP
 - Port: 5432
 - Source: My IP
- 5. Click Save rules.



Step 3: Connect Database Using pgAdmin

- 1. Open pgAdmin 4 on your local system.
- 2. Right-click Servers \rightarrow Create \rightarrow 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.

