

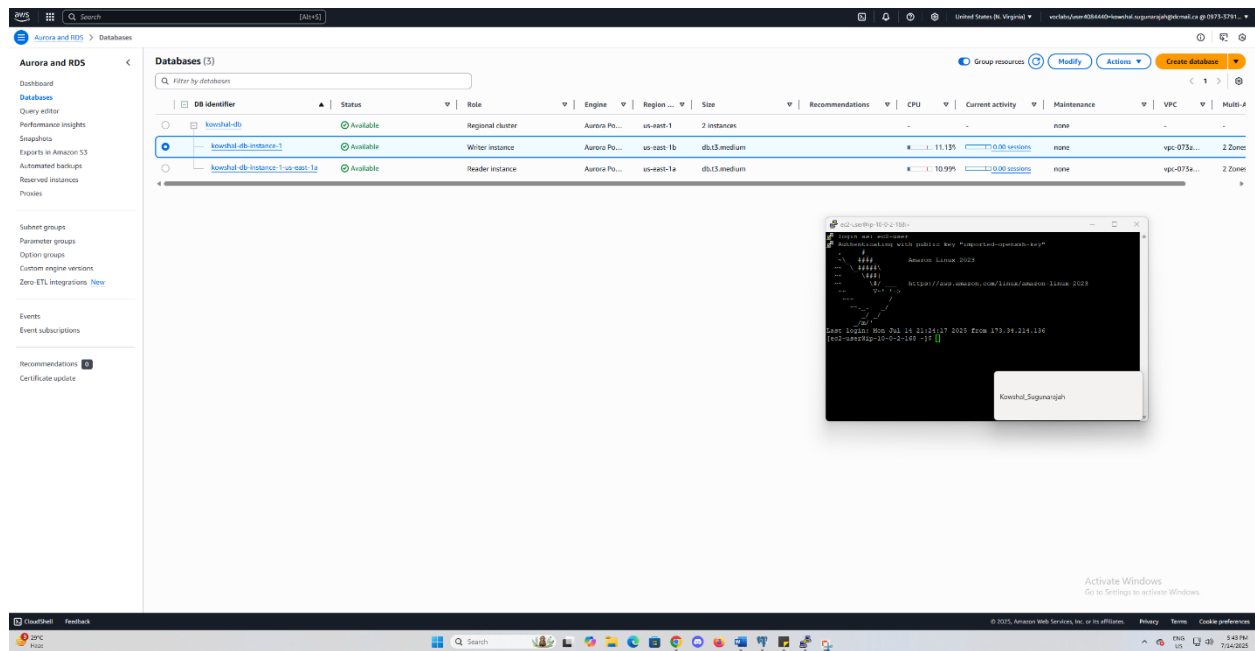
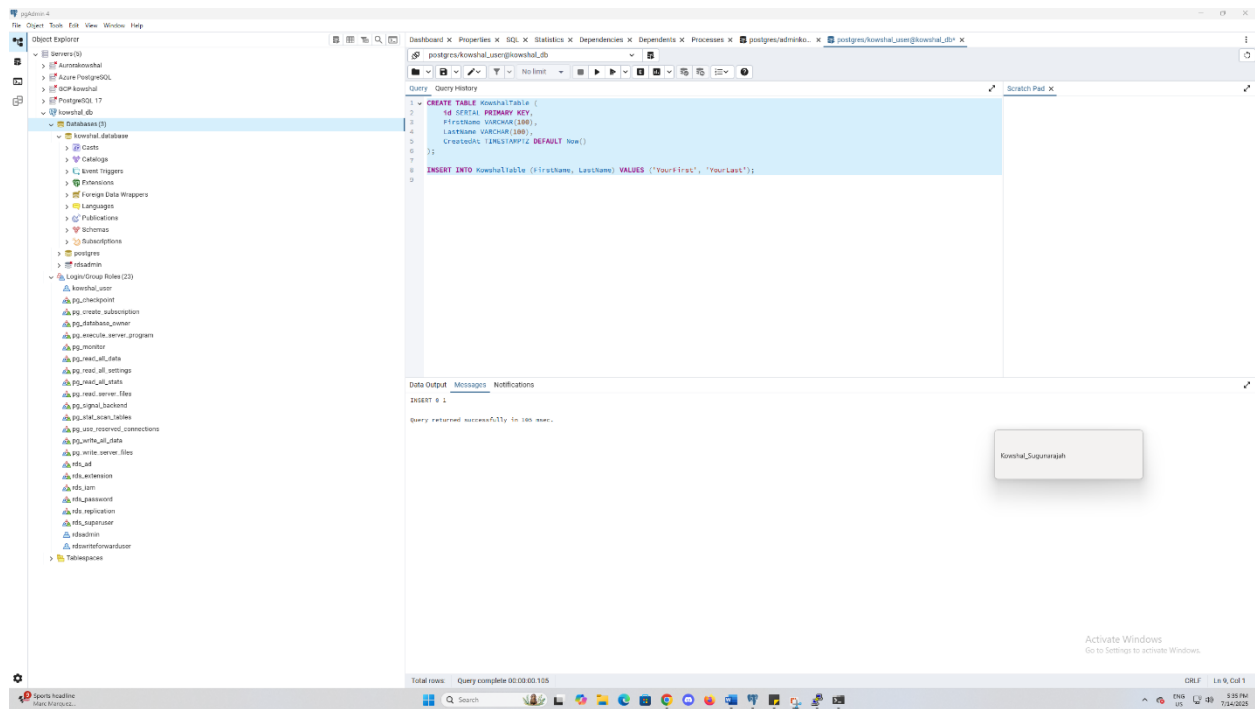
# Cloud Project

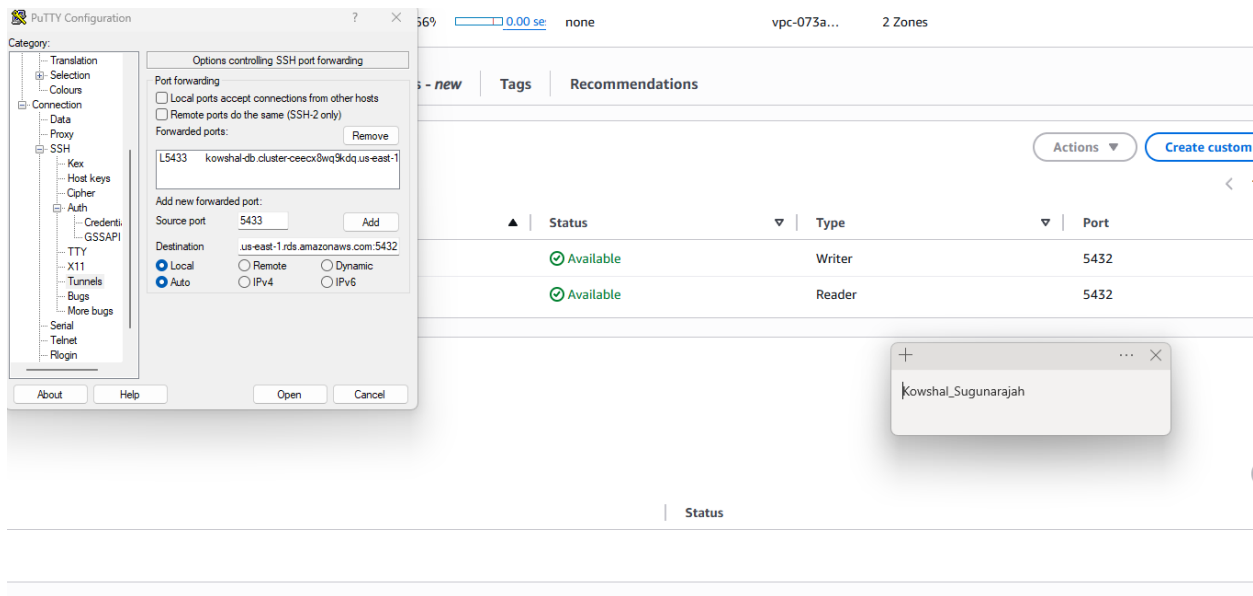
## Connection Postgre with AWS, GCP and AZURE

### **AWS**

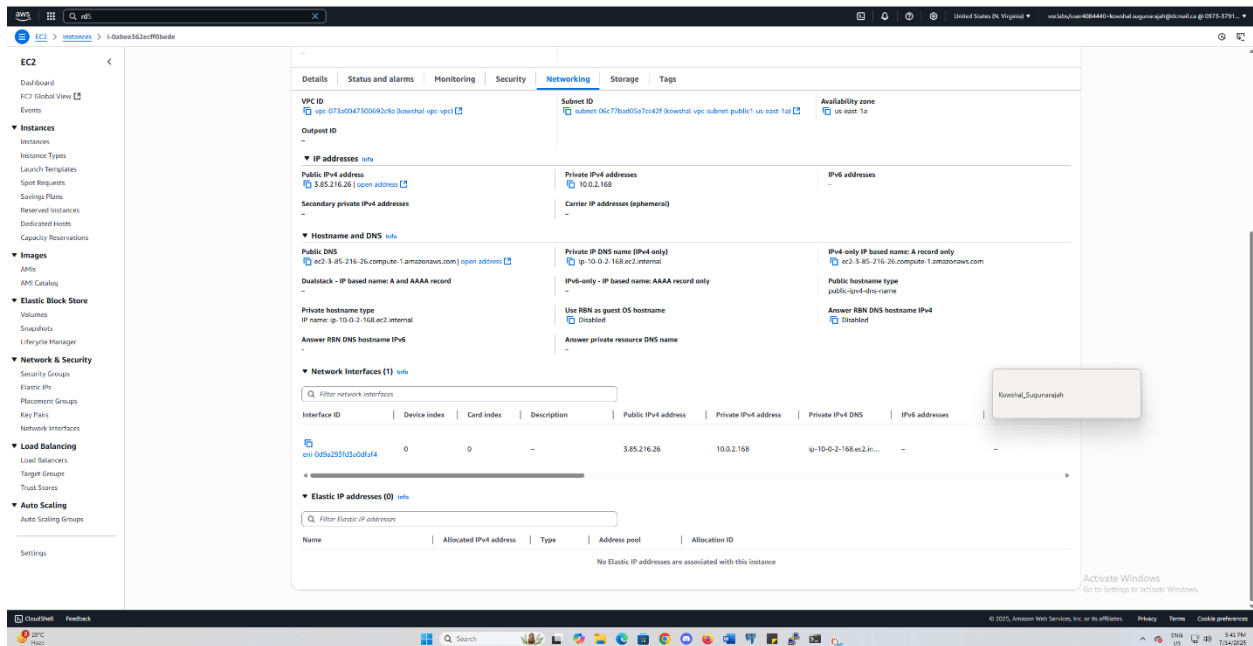
This project provided practical and in-depth experience in deploying a cloud-based database system using AWS. By building everything from scratch, including a new VPC, subnets, security groups, and a private Aurora PostgreSQL instance—I developed a solid understanding of secure cloud architecture and networking. Setting up an EC2 bastion host and using SSH tunneling to connect to a private database through pgAdmin helped reinforce concepts of secure access and private resource isolation. Additionally, performing database snapshot and recovery tasks demonstrated essential real-world backup strategies. Overall, this lab not only strengthened my cloud deployment skills but also deepened my confidence in managing production-grade infrastructure securely and efficiently.

- **Created a new VPC (Virtual Private Network)**
- **Created 2 subnets with both public and private**
- **Created new security group with Postgre access**
- **Created subnet group**
- **Created Aurora Postgre database with public access**
- **Created a new bastion server with a new security group**
- **With SSH made a connection with AWS and Postgre server using a Tunnel**

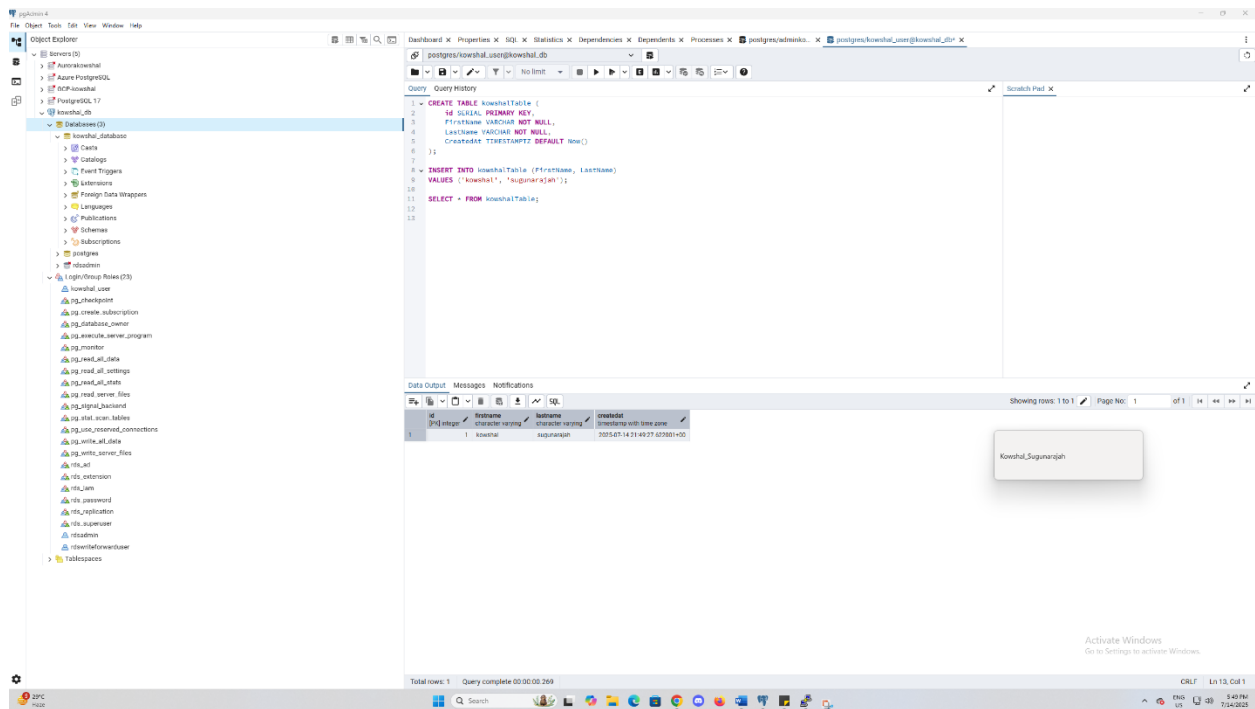




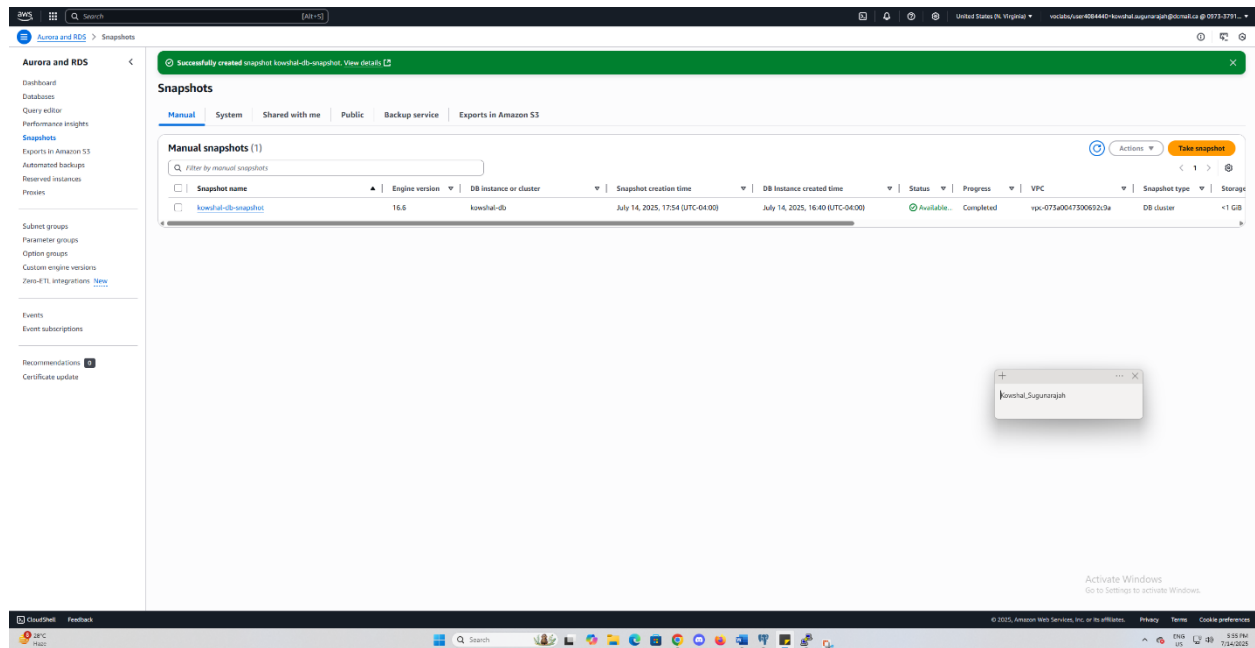
## EC2 bastion server configurations:



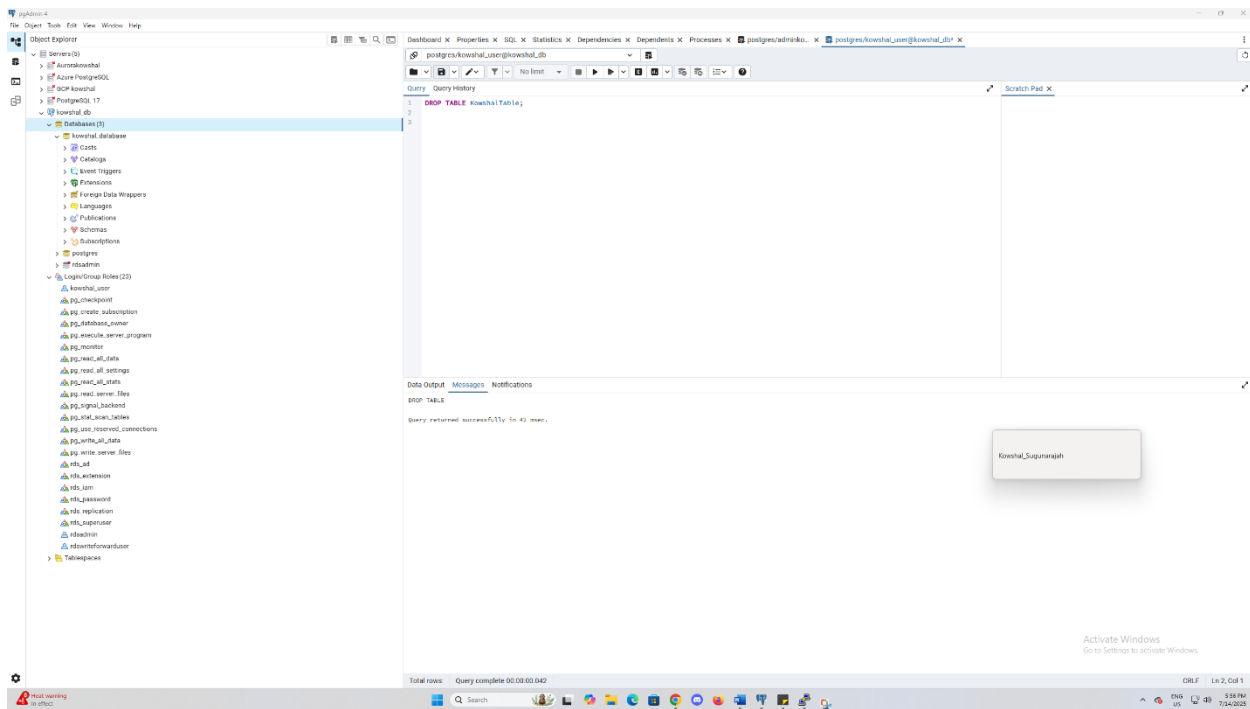
## Sample set of data created inside database:



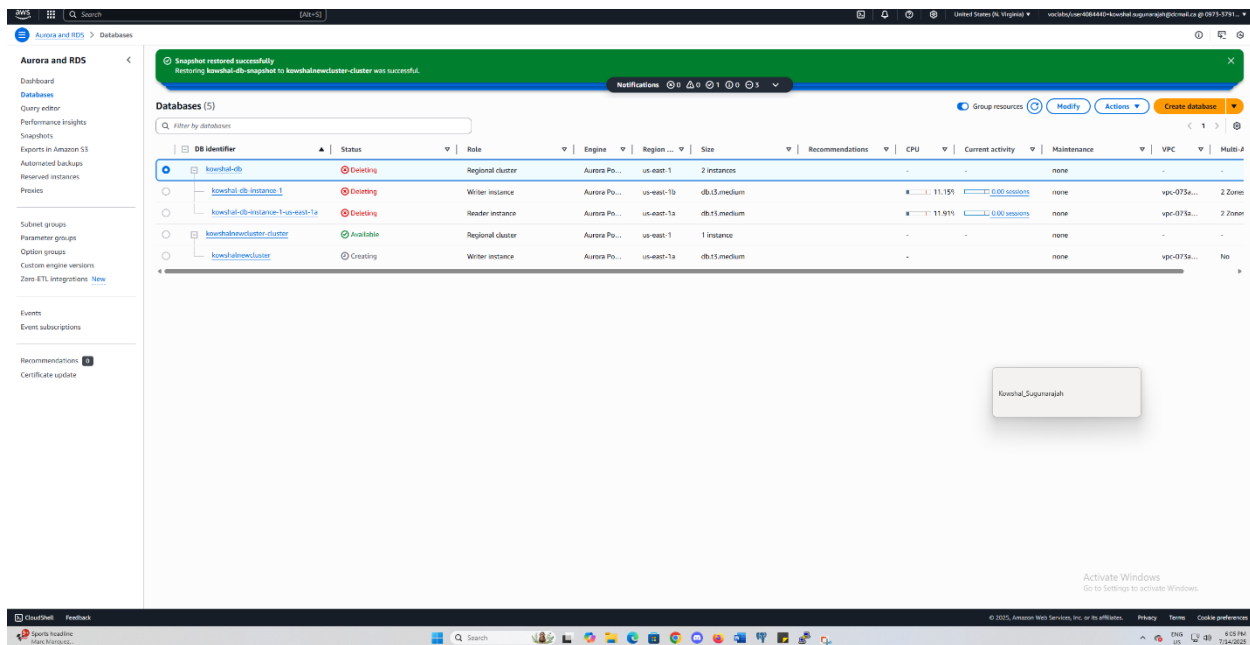
Took a snapshot of this database:



With query command deleted the data:



Recreated the data from the snapshot:



GCP

Database connection with GCP

