



Ganpat University

॥ विद्यया समाजोत्कर्षः ॥

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Batch:71

PRACTICAL 07

Demonstration of Database Service RDS along with configuration

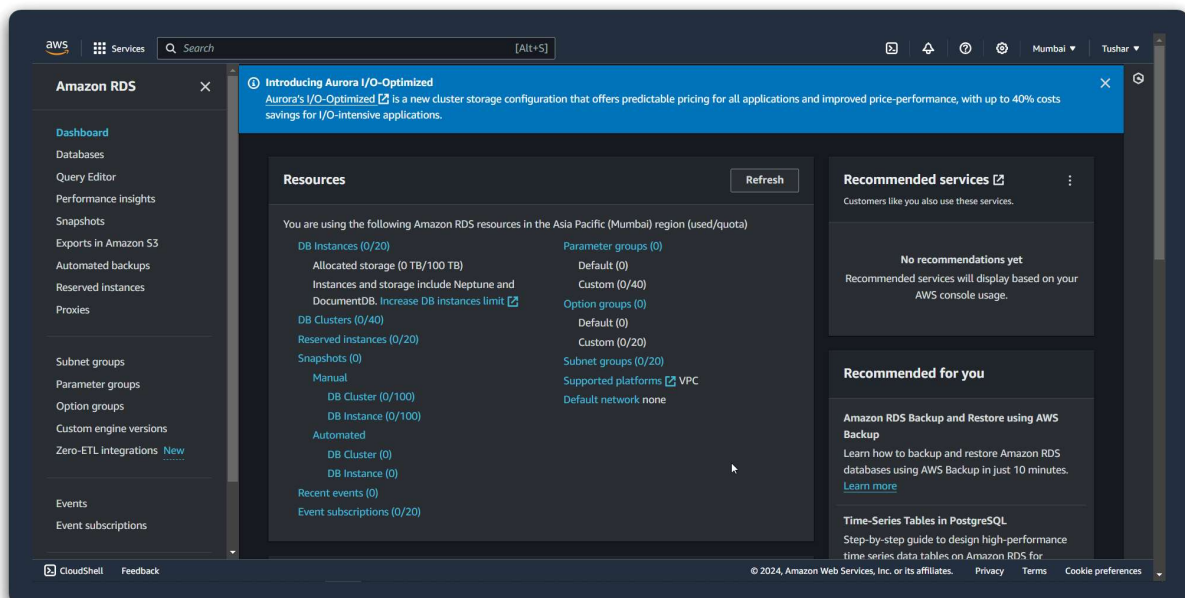
Install SQL Electron to establish a connection with the database

Create a Table and Add values to the table

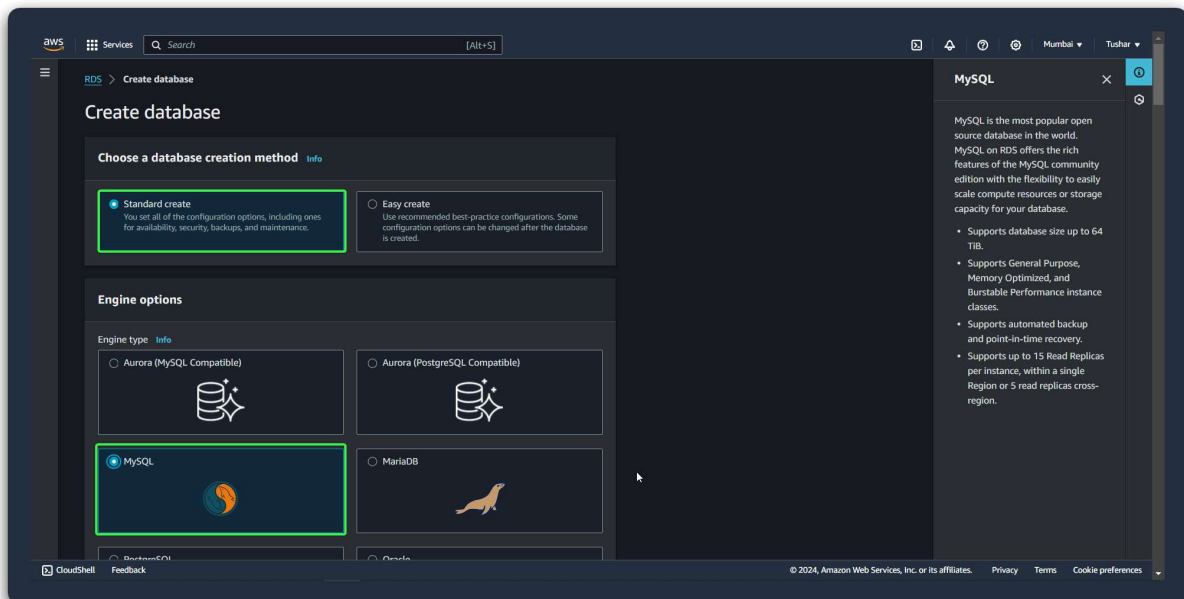
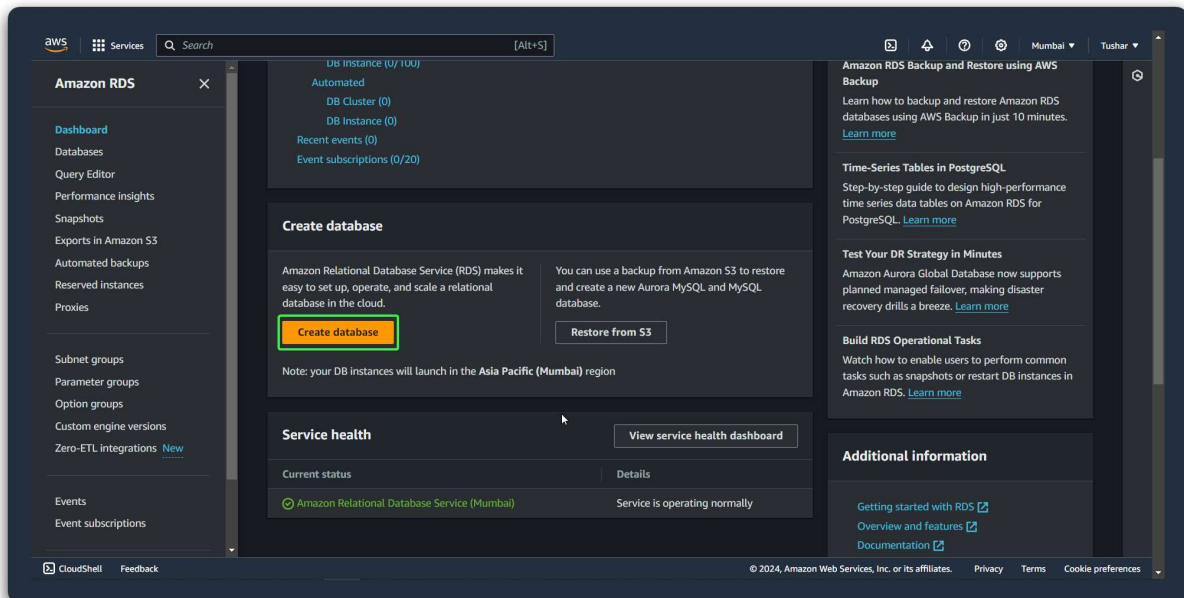
Link for SQL Electron:

<https://github.com/sqllectron/sqllectron-gui/releases/tag/v1.38.0>

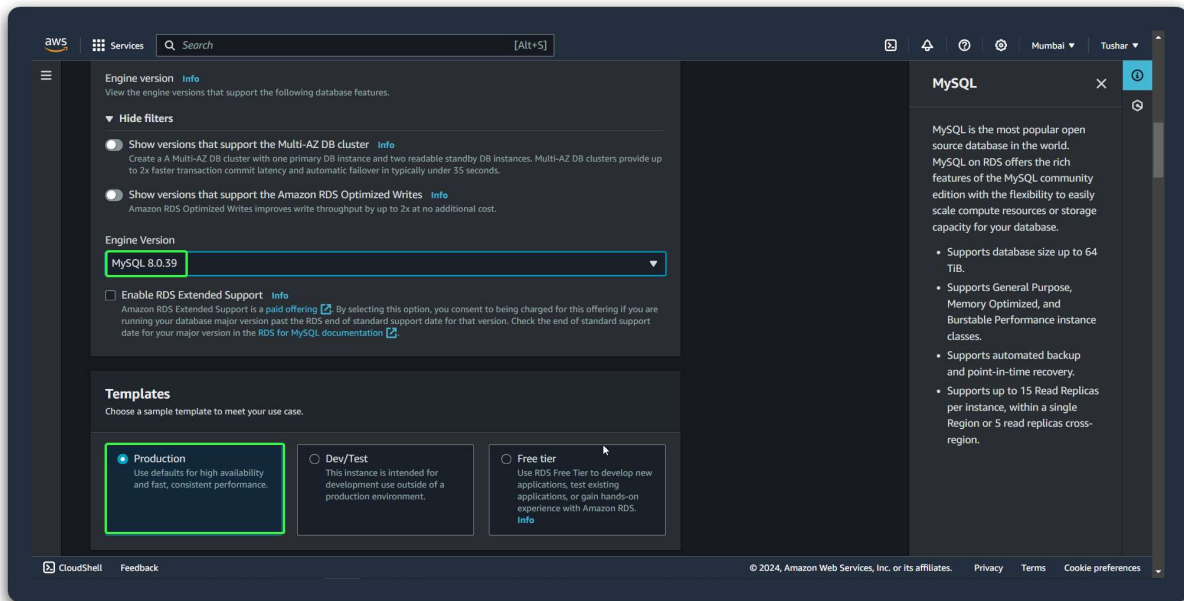
» **Open the AWS Console and the service RDS.**



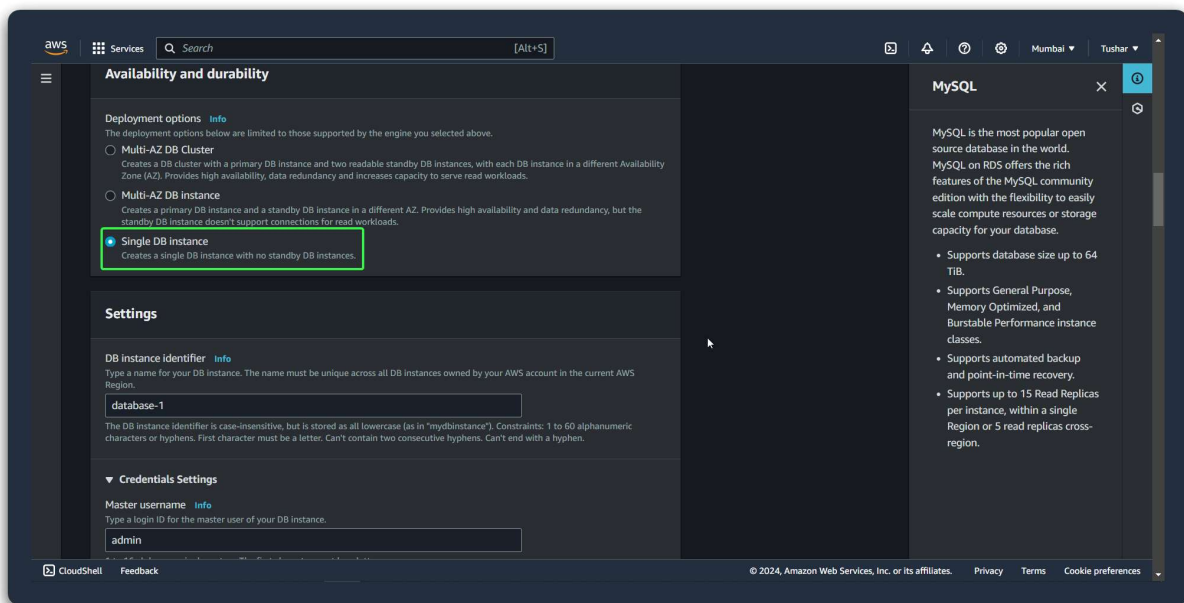
» Create the DB in RDS and select the Standard and engine MySQL.



» Select the version mysql 8.0.39 and select production.



➤ Now in availability select Single db instance.



➤ Select the self-managed and give a password and instance configuration select burstable.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.
admin

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management
You can use AWS Secrets Manager or manage your master user credentials.

☐ Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ Self managed
Create your own password or have RDS create a password that you manage.

☐ Auto generate password
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)
Password strength: **Very strong**
Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / " ' @
Confirm master password [Info](#)

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

☒ Show instance classes that support Amazon RDS Optimized Writes [Info](#)
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

☐ Include previous generation classes

☐ Standard classes (includes m classes)

☐ Memory optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t3.micro
2 vCPUs 1 GiB RAM Network: Up to 2,085 Mbps

» In storage select GP2 and storage as 20.

Storage

Storage type [Info](#)
Provisioned IOPS SSD (io2) storage volumes are now available.
General Purpose SSD (gp2)
Baseline performance determined by volume size

Allocated storage [Info](#)
20 GiB
Allocated storage value must be 20 GiB to 6,144 GiB

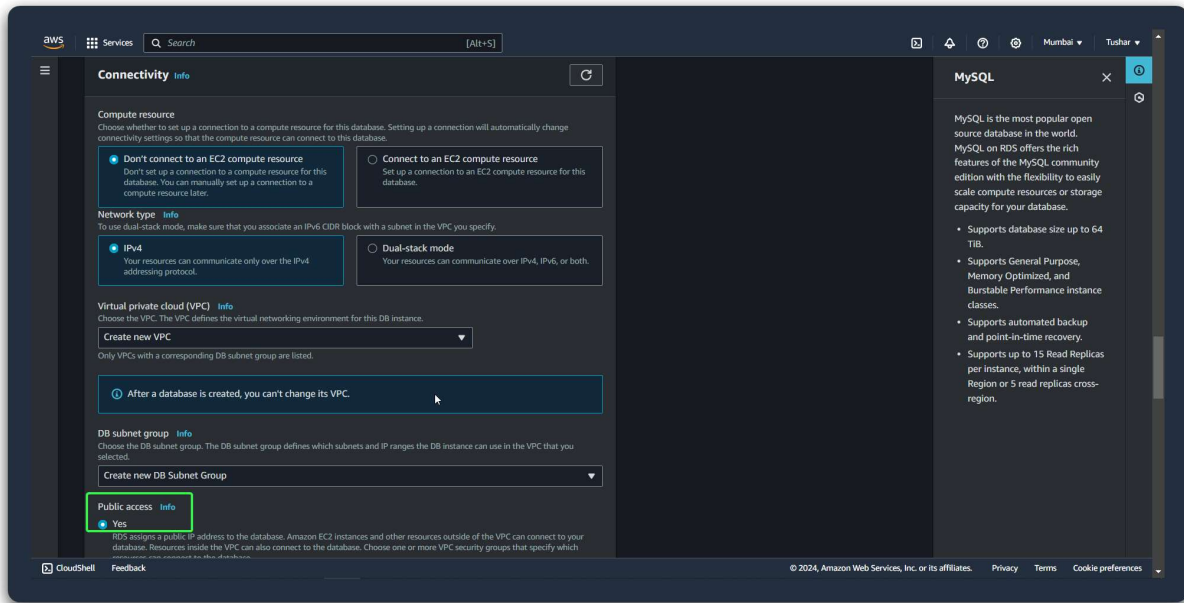
Provisioning less than 100 GiB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Learn more](#)

After you modify the storage for a DB instance, the status of the DB instance will be in storage-optimization. Your instance will remain available as the storage-optimization operation completes. [Learn more](#)

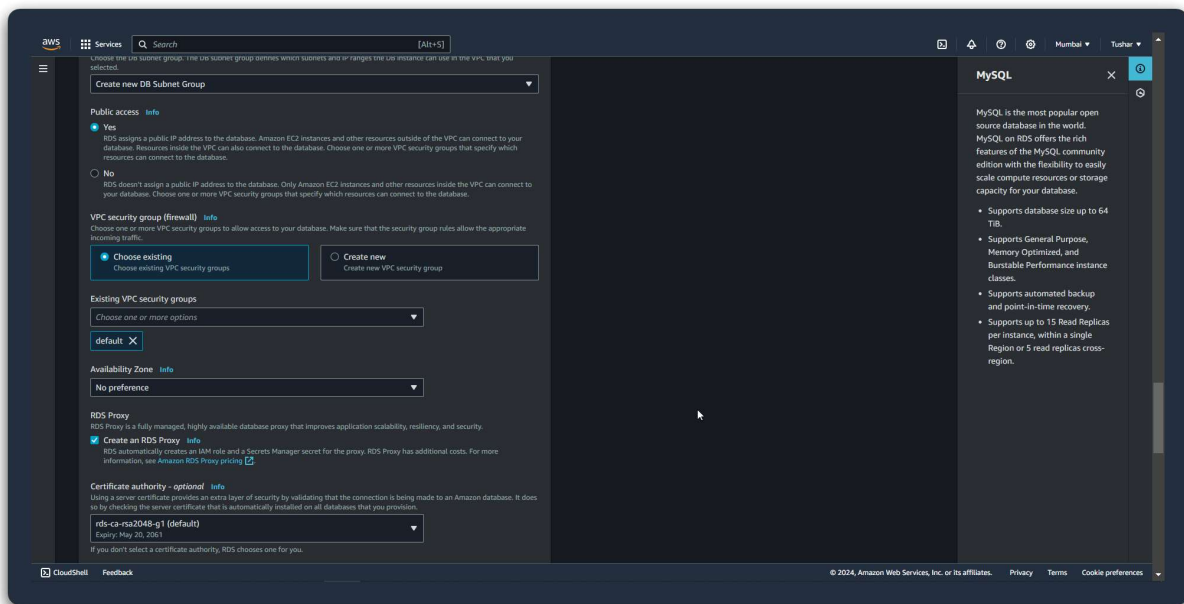
► Storage autoscaling

Connectivity [Info](#)

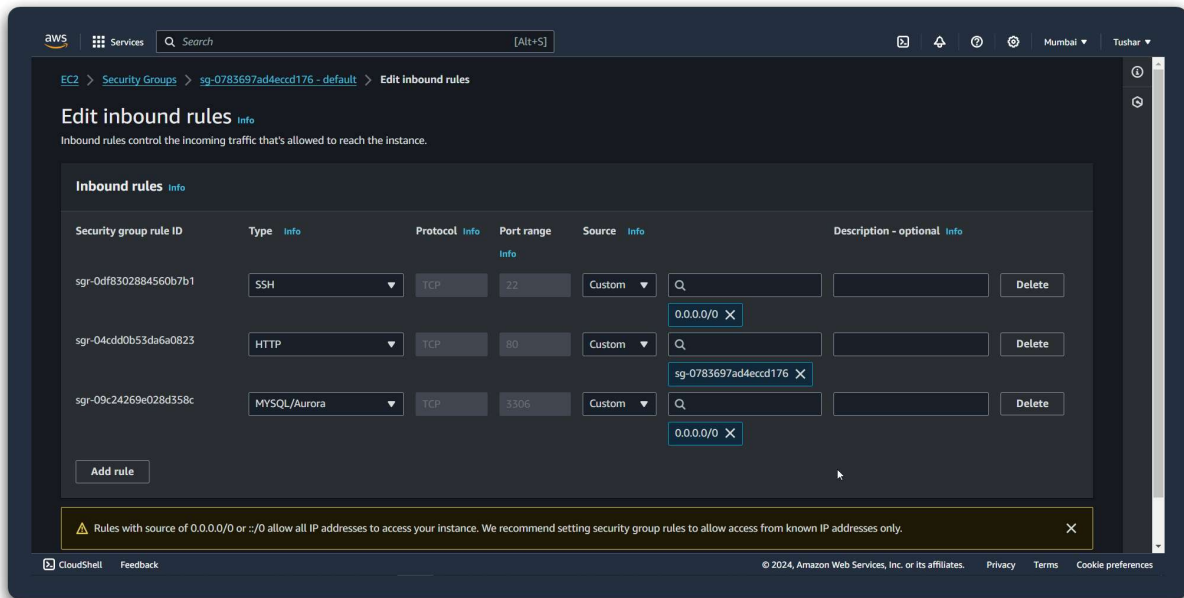
» Select public access as yes.



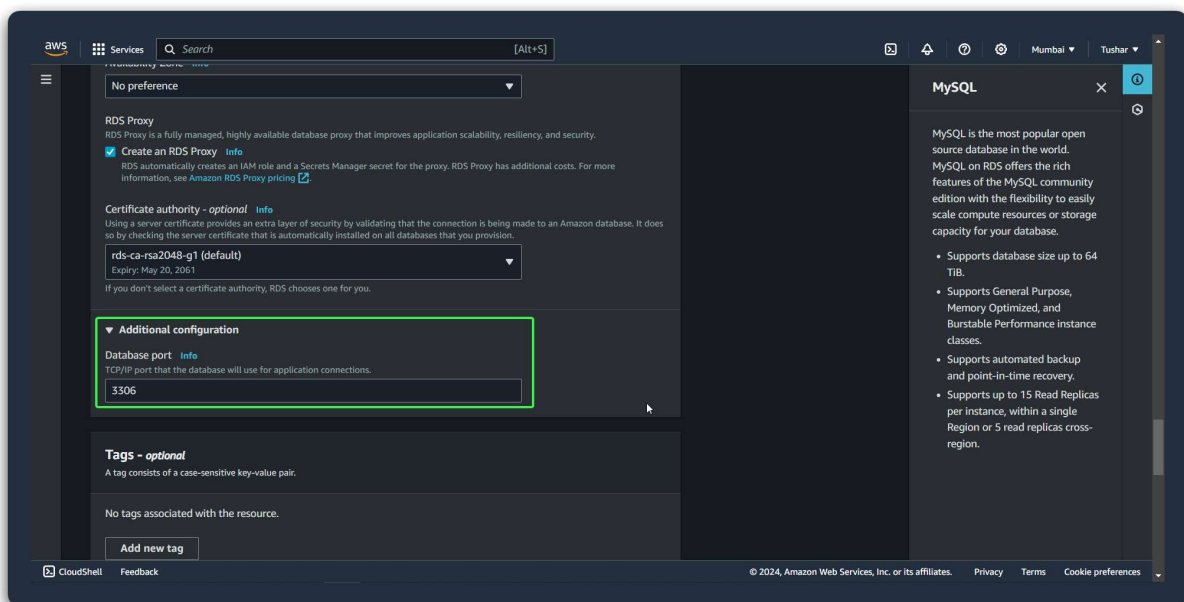
» Select the security group as the old one or create a new one.



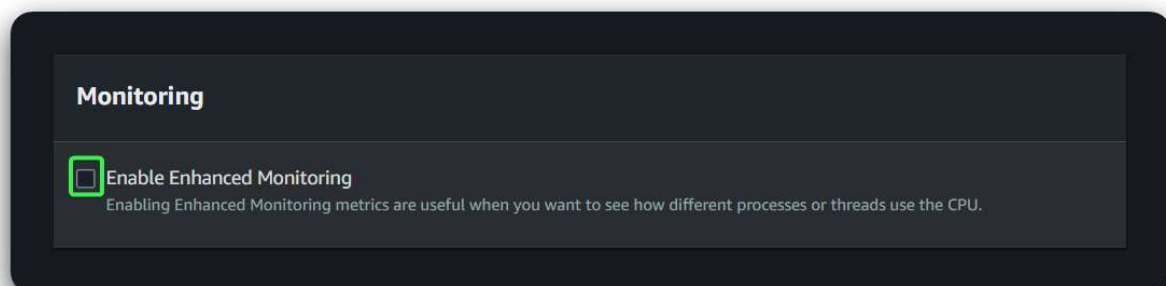
» In security, Group adds the inbound rule as Mysql and select the source as anywhere IPv4.



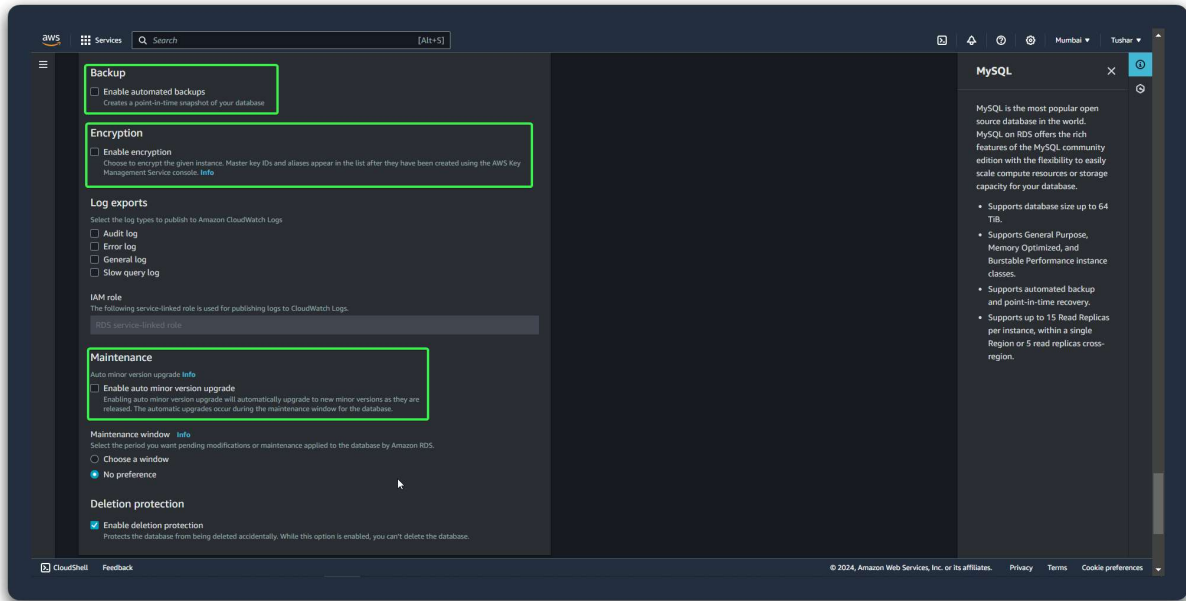
» Now see the 3306 as a port.



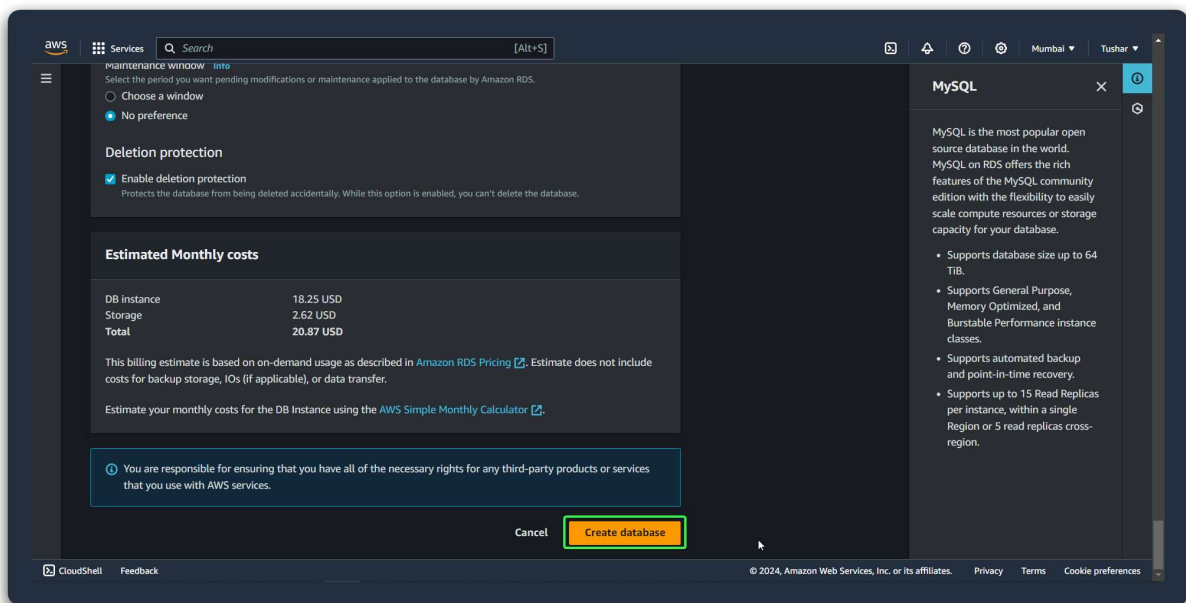
» Disable the Monitoring.



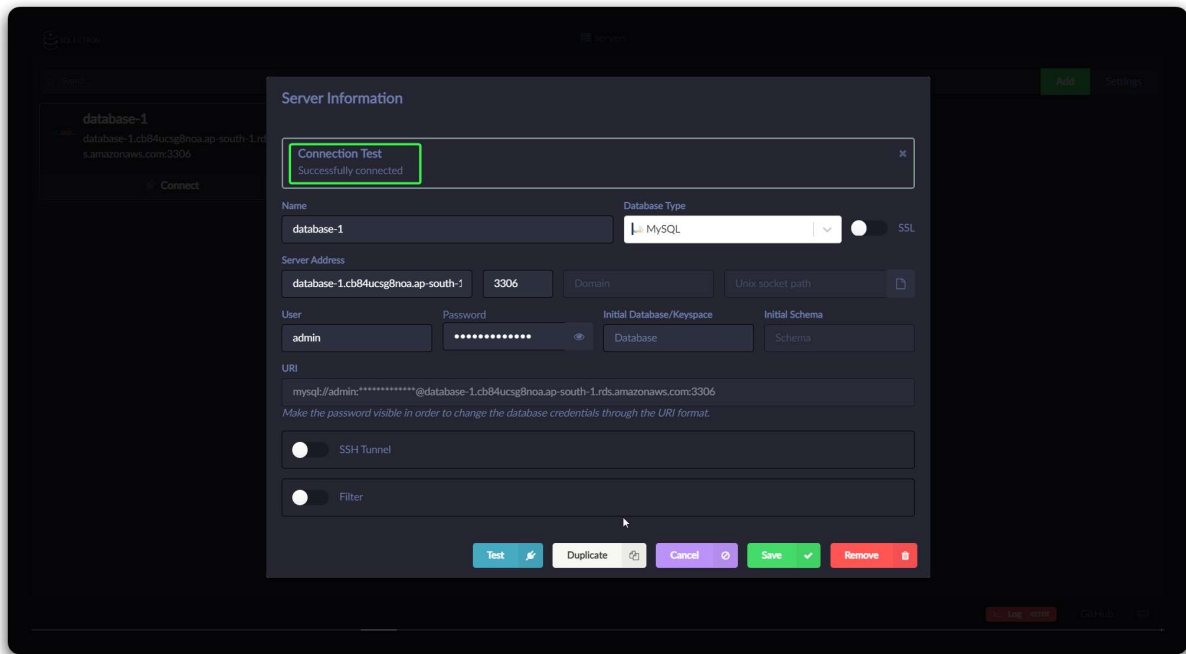
» Disable all these settings.



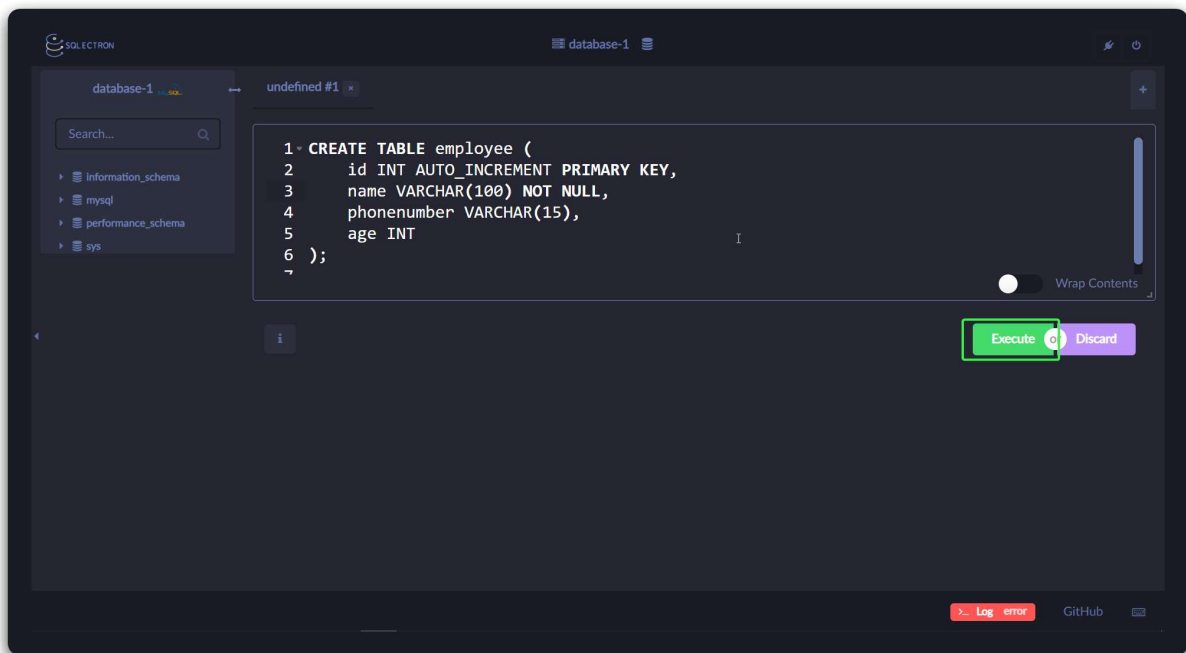
» And now create the DB.



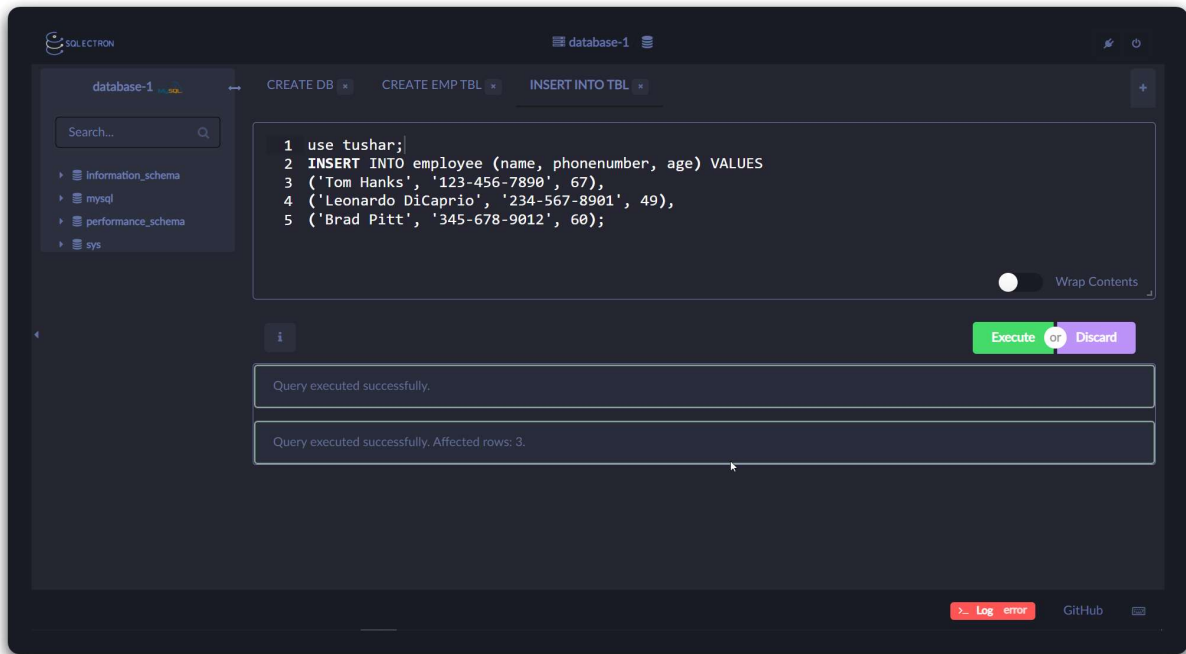
» In Sqlectron give the required information as shown and connect the DB.



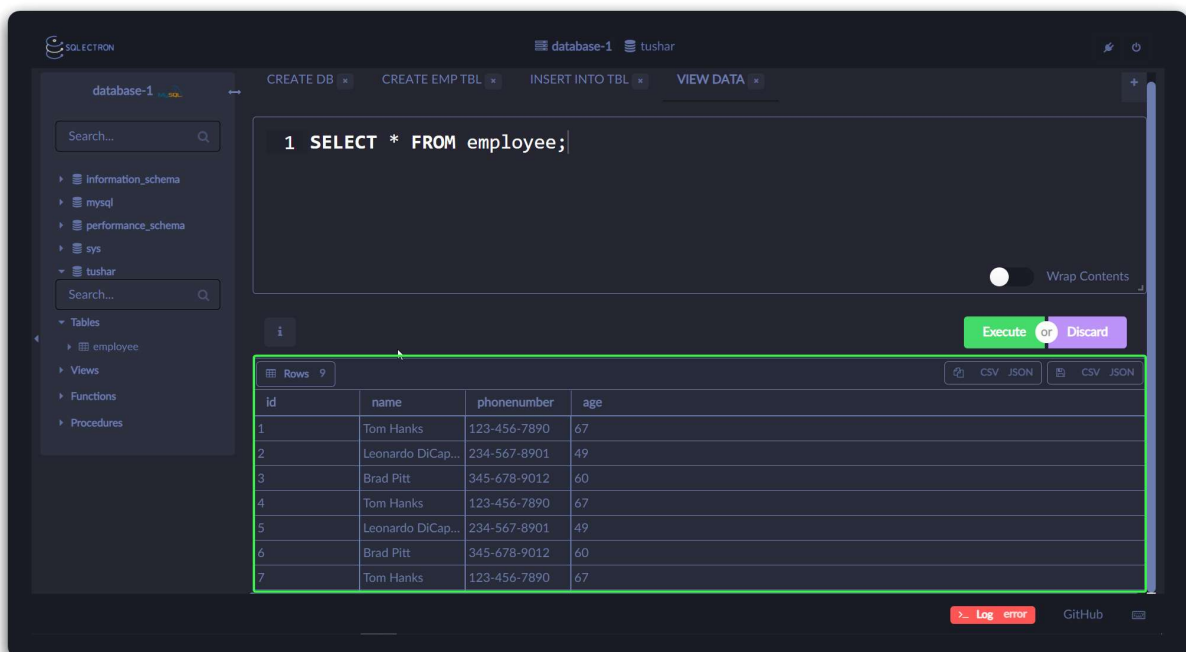
» After connecting DB run Query to Make a table.



» Then insert the data in the table using Query



» Now as you can see the data is inserted in the Table in Tushar



» NOW AFTER COMPLETING THIS, YOU HAVE TO DELETE ALL RDS DATABASE IN AWS