

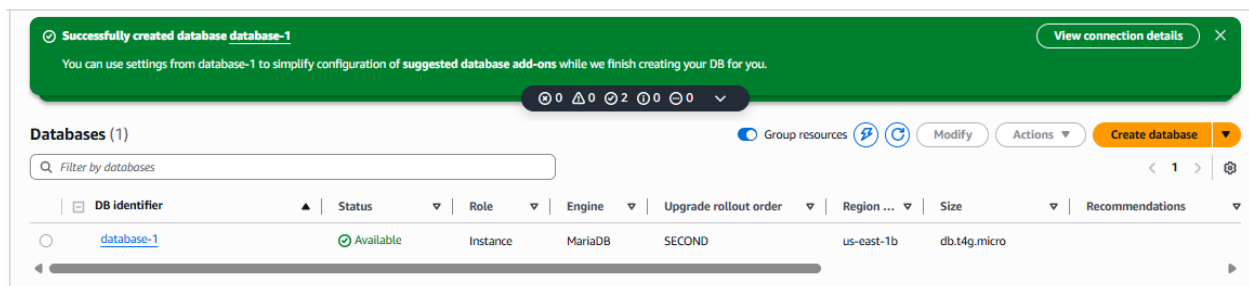
# Assignment 1

## Problem Statement:

You work for XYZ Corporation. Their application requires an SQL service that can store data which can be retrieved if required. Implement a suitable RDS engine for the same.

## While migrating, you are asked to perform the following tasks:

1. Create a MariaDB Engine based RDS Database.
2. Connect to the DB using the following ways:
  - a. SQL Client for Windows
  - b. Linux based EC2 Instance



Connection Name: database1

Hostname: RDS Endpoint

Port: 3306

Username: admin

Click Store in Keychain and enter password

Click Test Connection

**Databases (1)** Group resources Modify Actions Create database

Filter by databases

DB identifier	Status	Role	Engine	Upgrade rollout ...	Region ...	Size	Recom...
database-1	Available	Instance	MariaDB	SECOND	us-east-1b	db.t4g.micro	

```
[ec2-user@ip-172-31-100-10 ~]$ mysql -h database-1.c0f862wsuljd.us-east-1.rds.amazonaws.com \
-P 3306 \
-u admin \
-p'March2019!' \
--ssl-ca=global-bundle.pem
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 76
Server version: 11.8.5-MariaDB-log managed by https://aws.amazon.com/rds/

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases
-> select version();
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'select version()' at line 2
MariaDB [(none)]> select version();
+-----+
| version() |
+-----+
| 11.8.5-MariaDB-log |
+-----+
1 row in set (0.001 sec)

MariaDB [(none)]>
```

## Assignment 2

You work for XYZ Corporation. Their application requires a database service that can store data which can be retrieved if required. Implement a suitable service for the same.

While migrating, you are asked to perform the following tasks:

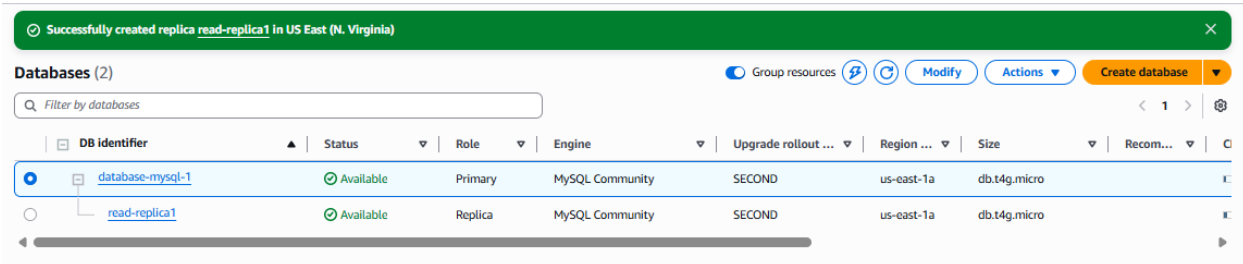
1. Create a DynamoDB table with partition key as ID.
2. Add 5 items to the DynamoDB table.
3. Take backup and delete the table.

**Tables (1)** Info Last updated January 31, 2026, 14:12 (UTC+5:30) Actions Delete Create table

Find tables Filter by tag Any tag key Filter by tag value Any tag value

Name	Status	Partition key	Sort key	Indexes	Replication Regions	Deletion protection	Favorite	Read capacity mode	Write capacity mode
Assignmentdb	Active	ID (S)	-	0	0	Off	☆	On-demand	On-demand

1. Create an AuroraDB Engine based RDS Database.
2. Create 2 Read Replicas in different availability zones for better infrastructure availability.



## Assignment 4

### Problem Statement:

You work for XYZ Corporation. Their application requires a database service that can store data which can be retrieved if required.

### Implement suitable service for the same.

While migrating, you are asked to perform the following tasks:

1. Create a Redshift data warehouse.
2. Using the query editor:
  - a. Load some data
  - b. Query the data