Database Asignment

**Similarly it’ll create one more read replica and you can run SQL commands directly from the terminal. Let’s proceed to 3rd assignment on DynamoDB**

**Problem Statement:**

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.

**Go to AWS Management Console 🡪 DynamoDB 🡪 Create Table**

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**Keep the remaining settings as it is and click on Create Table**

**AWS will create the table, which may take a few moments**

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**My dynamodb is creating.**

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**AWS will create the table, which may take a few moments**

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**Go to Action>> Select explore items**

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**Click on create items**

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**Add the required attribute and their values and Click on Create Item**

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**Similarly created 4 more items**

**5 Items are added successfully**

**Let’s take the backup and delete this table. Go to Backup from the left menu**

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**Click on create backup**

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**Click on view details and then click on AWS Backup and it will show job**

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**Backup job is created. It’ll take some time to backup the table. we can go and delete the table**

**Select the table and click on Delete.**

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**Go to AWS Management Console 🡪 Amazon Redshift 🡪 Provisioned clusters dashboard 🡪 Create Cluster**

**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

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**Lick on cluster dashboard**

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**Click on create cluster**

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**Keep the remaining settings as it is and click on Create Cluster**

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**Keep the remaining settings as it is and click on Create Cluster**

**Admin user name is**

**awsuser**

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**Password is Admin12345678**

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**Click on create cluster**

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**Cluster got created. Let’s open the query editor**

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**This page will be opened.**

**Choose temporary credentials and enter the username chosen in the previous step**

**Let’s create a csv file and upload it to s3.**

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**Create bucket**

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**And upload the csv file in it.**

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**Bucket created**

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**CSV file uploaded**

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**Let’s go to IAM and create a new role with permissions to access S3 and then Attach the role to our Redshift cluster**

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**Click on create role**

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**Created a role for Redshift to access S3. Let’s Attach it to our Redshift cluster.**

**Choose the cluster 🡪 Actions 🡪 Manage IAM roles**

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**click on Associate and Save.**

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**Summary**

* **Created a MariaDB RDS Database.**
  + **Connected to the DB using SQL Client on Windows.**
  + **Connected to the DB using a Linux-Based EC2 Instance.**
  + **Created an AuroraDB database**
  + **Created 2 read replicas in different AZs.**
* **Created a DynamoDB table**
  + **Added 5 items into this table.**
  + **Created backup of this table and deleted it.**
* **Created a Redshift data warehouse**
  + **Created a cluster**
  + **Executed sql queries for create table**
  + **Created an IAM role for redshift to access S3.**
  + **Uploaded a csv file to s3 bucket and copied csv data to the above table**
  + **Then executed sql query to verify the data loading.**

**Thank You**