Module 7: DynamoDB Assignment

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Course Offered: -Advanced Cloud Computing and Devops
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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.

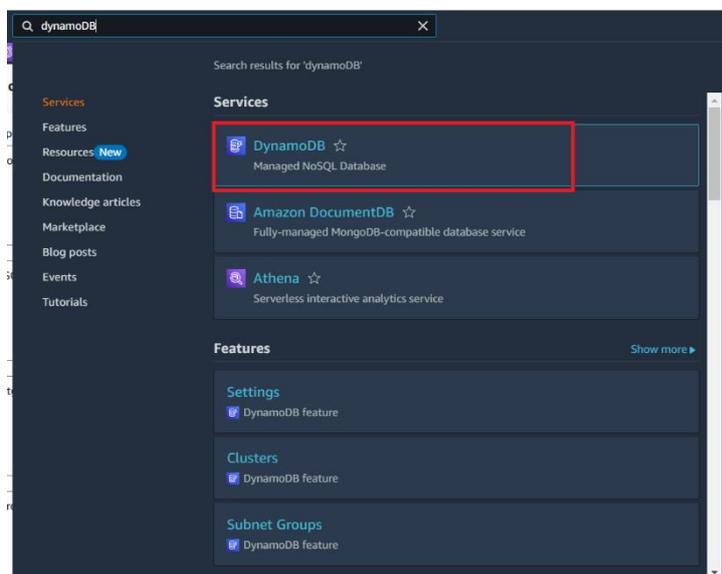## While migrating, you are asked to perform the following tasks:

1. Create a DynamoDB table with partition key as ID.

2. Add 5 items to the DynamoDB table.

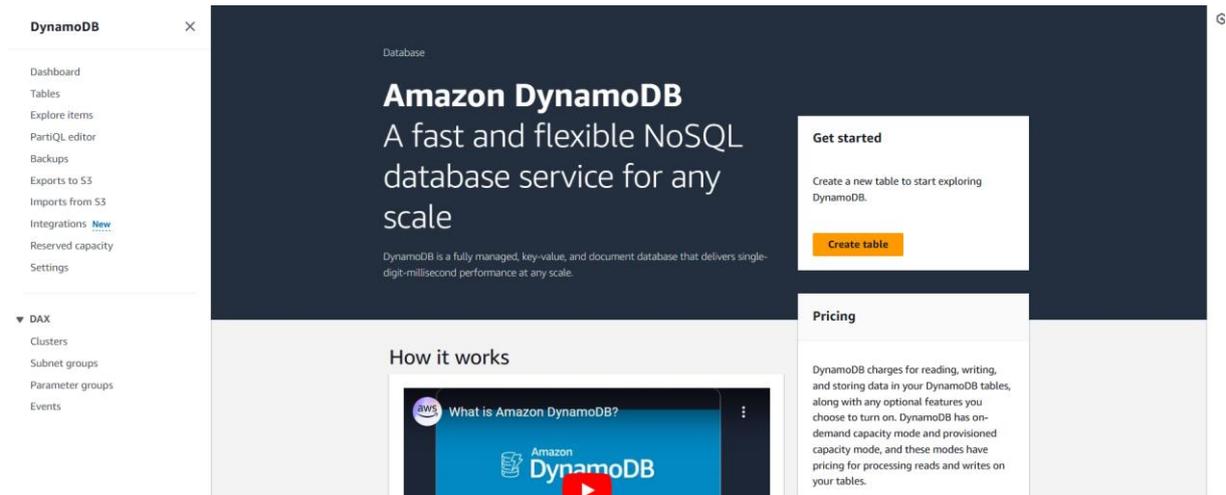3. Take backup and delete the table.

ANSWER:

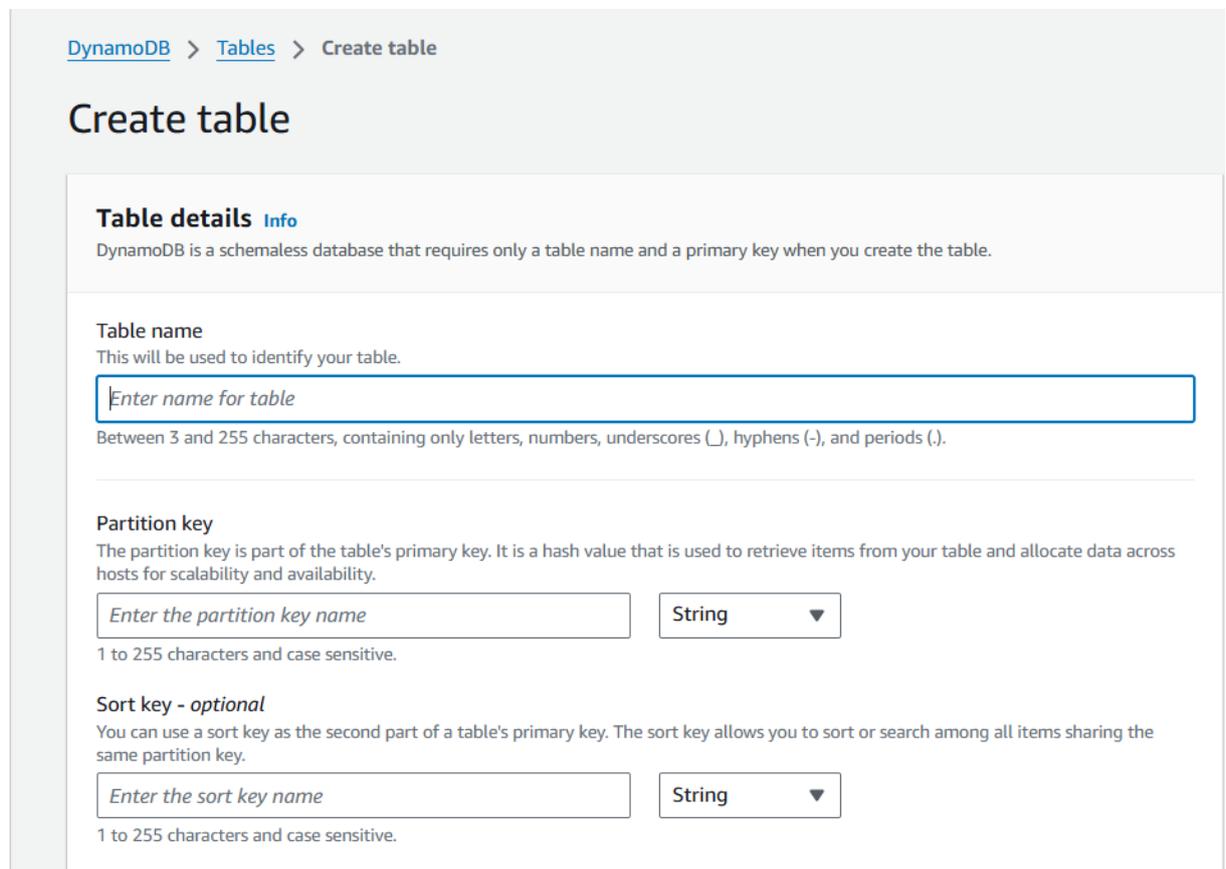Login to AWS Management Console Then Search DynamoDB
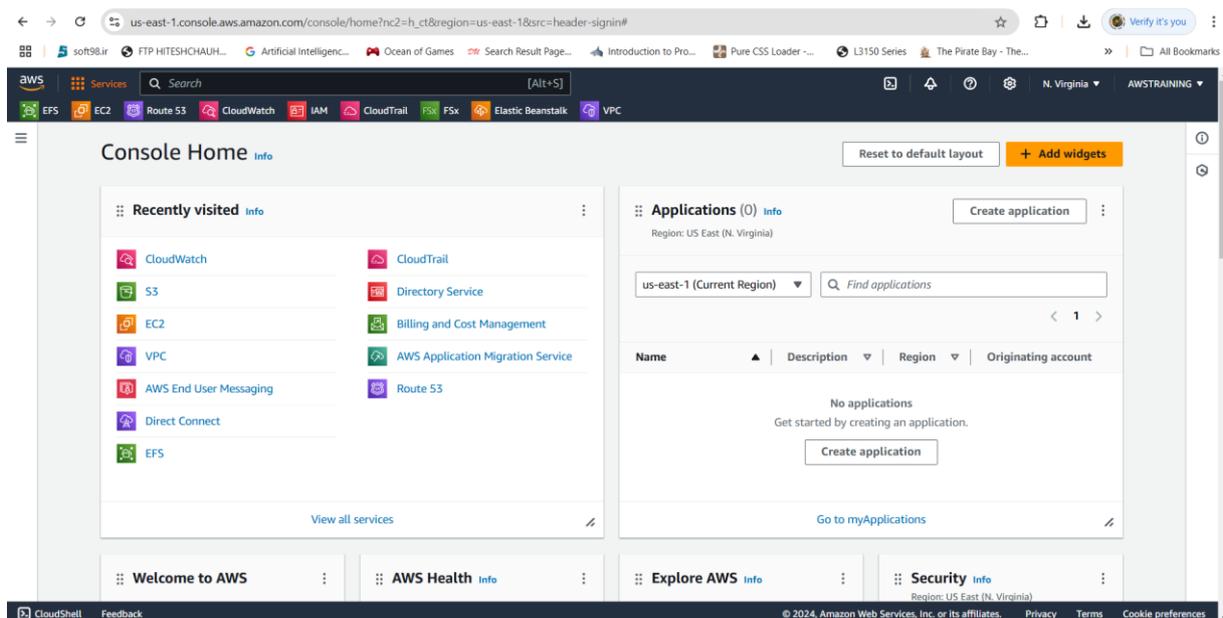
Click The DynamoDB

After Click The DynamoDB.You will see like this screen.

After Click The Create Table You will See like Filling to table details.

Now We need to create the dynamodb1 table in table details.

Partition key will be id

Table details Info

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
This will be used to identify your table.

```
dynamodb1
```

Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key
The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

```
id
```
String ▼

1 to 255 characters and case sensitive.

Sort key - *optional*
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

```
Enter the sort key name
```
String ▼

1 to 255 characters and case sensitive.

Provide the DynamoDB table name and partition key details

Default table settings

These are the default settings for your new table. You can change some of these settings after creating the table.

Setting	Value	Editable after creation
Table class	DynamoDB Standard	Yes
Capacity mode	Provisioned	Yes
Provisioned read capacity	5 RCU	Yes
Provisioned write capacity	5 WCU	Yes
Auto scaling	On	Yes
Local secondary indexes	-	No
Global secondary indexes	-	Yes
Encryption key management	Owned by Amazon DynamoDB	Yes
Deletion protection	Off	Yes
Resource-based policy	Not active	Yes

Click "Create table"

Once the Table is created successfully.

Select the table >Actions >create an item

Click Explorer Item

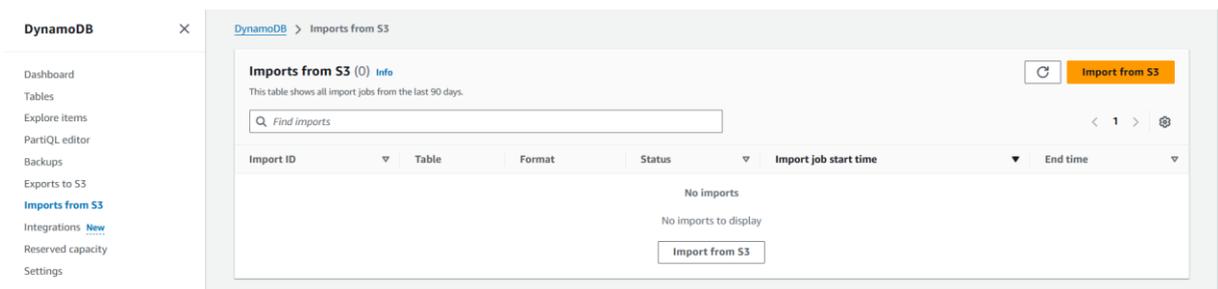After Click The Explorer item Will be blank
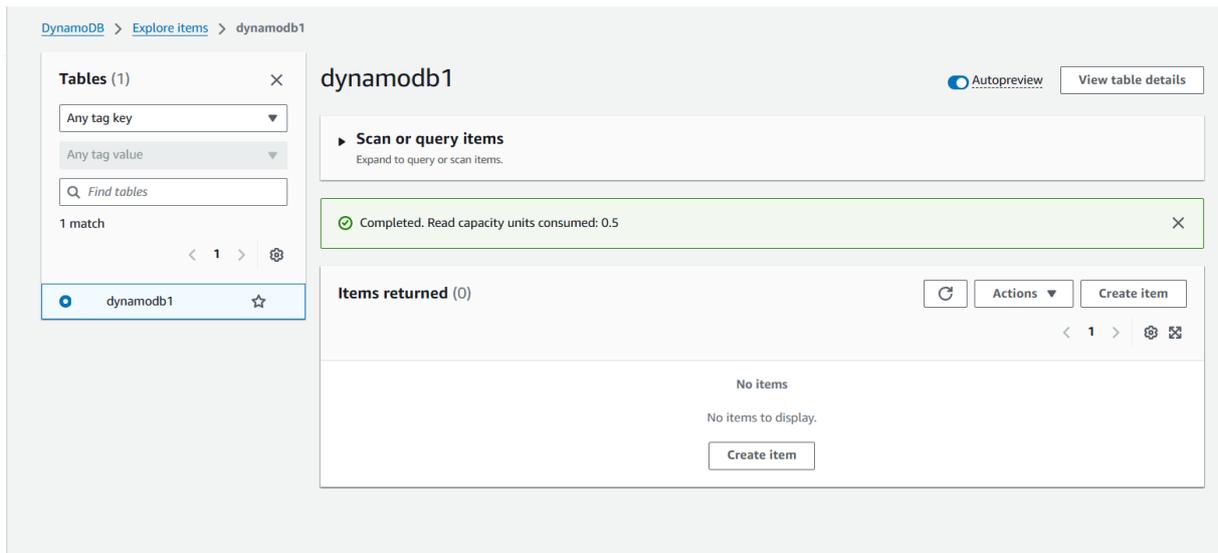
Then We need to create the item.in my case I have general the id like 0 to 5
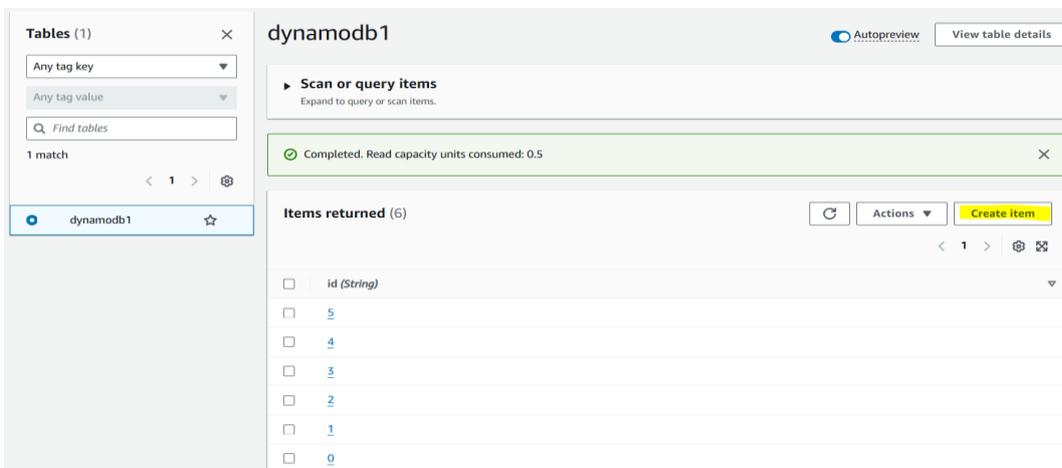
You can see 6 Objects are Created successfully.

Now After Create the item We need to import

Import from S3 is also possible using the below method.

Now Click **Import**

Creating DynamoDB Table Backup

Go to **DynamoDB Table** >Backups >Create Backup

That will create the table backup.

Delete table   ✕

Delete table **dynotable1** in **Asia Pacific (Mumbai)** permanently? This action cannot be undone.

> ⚠ Proceeding with this action will delete the table and you won't be able to retrieve this data.

☑ Delete all CloudWatch alarms for **dynotable1**.

☐ Create an on-demand backup of **dynotable1** before deletion.
  You can create an on-demand backup of your table for long-term retention and data archiving.
  You can then use this backup to restore your data to its exact state before table deletion.
  Additional charges apply for on-demand backup and restore. For more information see Pricing 🔗.

To avoid unintentional deletions, we ask you to provide additional confirmation.

To confirm this deletion, type "confirm".

    confirm

                                    Cancel   **Delete**

⊘ The request to delete the "dynotable1" table has been submitted successfully.