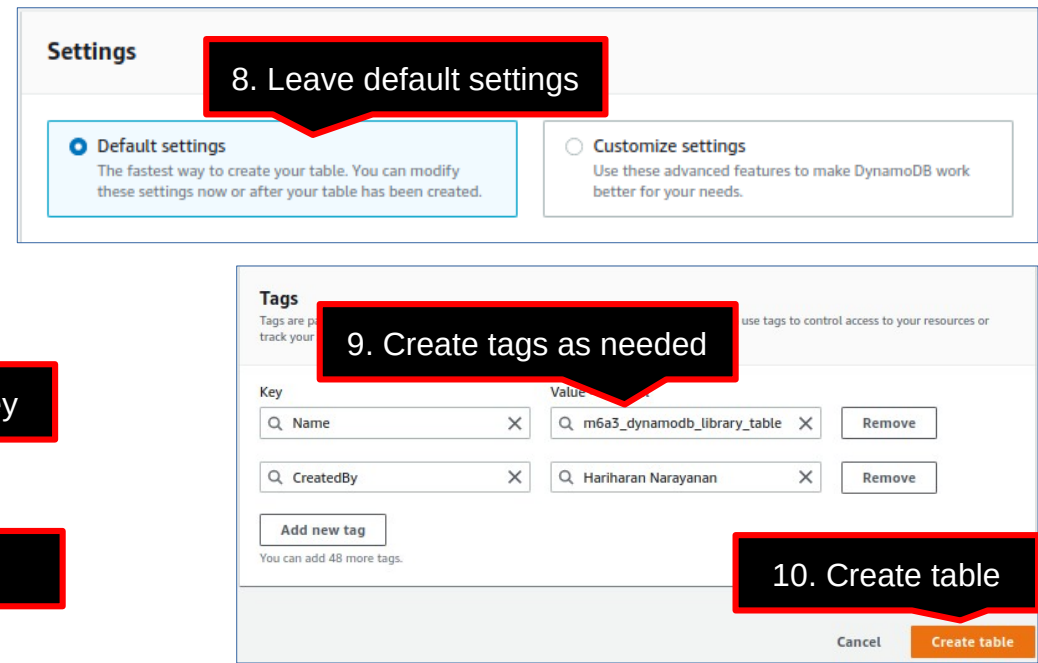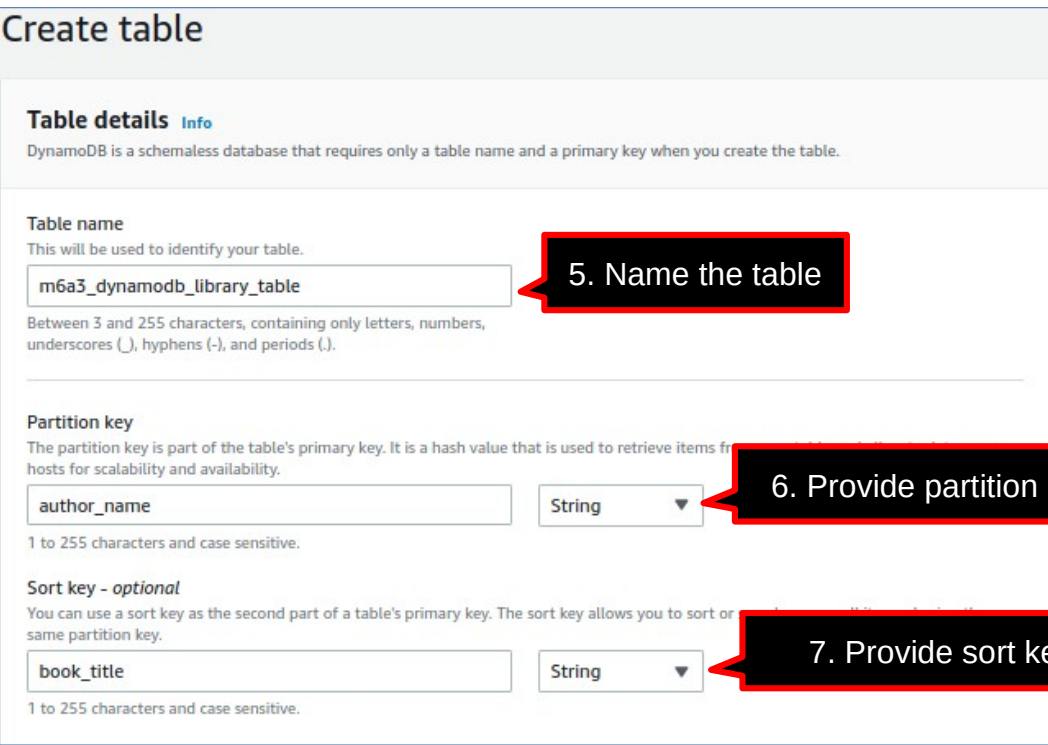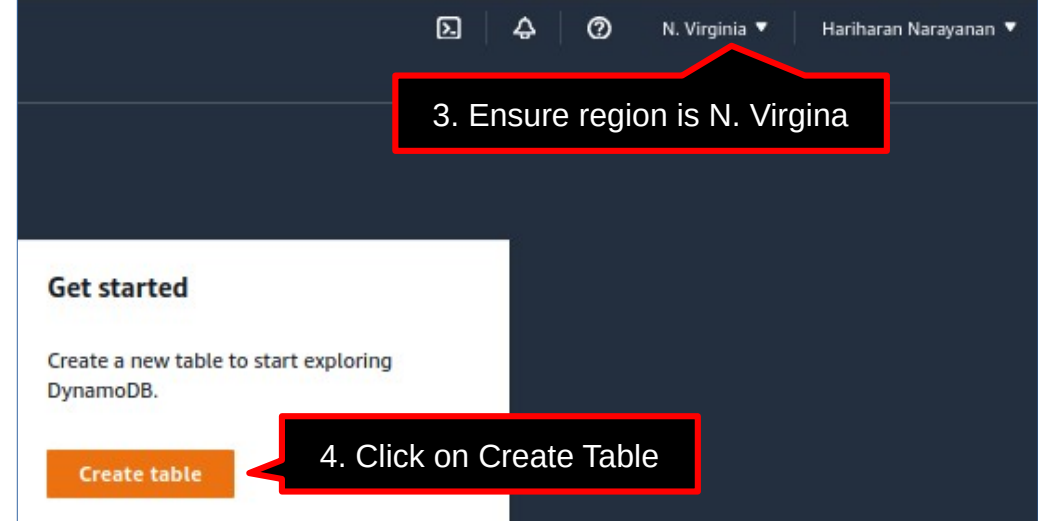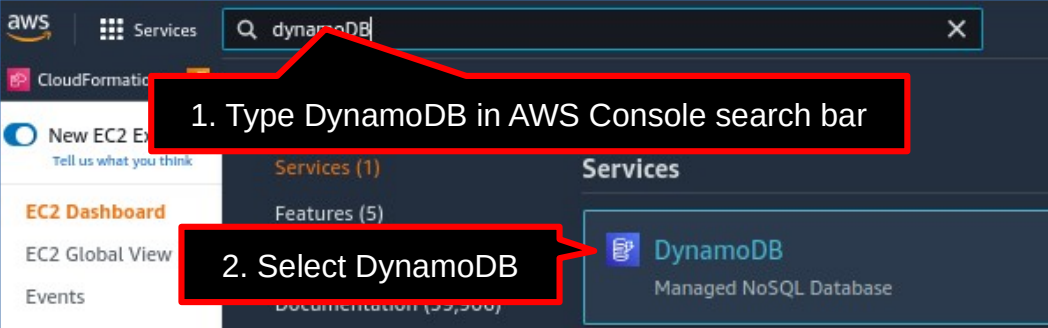# Module-6: Database Services Assignment-3

You have been asked to:

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

1. Type DynamoDB in AWS Console search bar

2. Select DynamoDB

DynamoDB
Managed NoSQL Database

3. Ensure region is N. Virgina

Get started

Create a new table to start exploring DynamoDB.

4. Click on Create Table

Create table

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.

m6a3_dynamodb_library_table

5. Name the table

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

Settings

8. Leave default settings

Default settings
The fastest way to create your table. You can modify these settings now or after your table has been created.

Customize settings
Use these advanced features to make DynamoDB work better for your needs.

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.

author_name | String ▼

6. Provide partition key

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 within all items sharing the same partition key.

book_title | String ▼

7. Provide sort key

1 to 255 characters and case sensitive.

Tags
Tags are p... track your...

9. Create tags as needed

...use tags to control access to your resources or

Key | Value
Name | m6a3_dynamodb_library_table | Remove
CreatedBy | Hariharan Narayanan | Remove

Add new tag

You can add 48 more tags.

10. Create table

Cancel | Create table

⊘ The m6a3_dynamodb_library_table table was created successfully.

DynamoDB > Tables

Tables (1) Info

[Find tables by table name]

[Any table tag ▼]

12. Click on table to open details

	Name	Status	Partition key	Sort key	Indexes	Read capacity
☐	m6a3_dynamodb_...	⊘ Active	author_name (String)	book_title (String)	0	Provisioned with auto scaling (5)

11. Wait until table is created successfully

13. View items

DynamoDB > Tables > m6a3_dynamodb_library_table

Tables (1)   ↻ ✕

Tag

[Any table tag ▼]

[🔍 Find tables by name]

< 1 > ⚙

○ m6a3_dynamodb_library_table

m6a3_dynamodb_library_table

[Actions ▼] [View Items]

Overview | Indexes | Monitor | Global tables | Backups | Exports and streams | Additional settings

General information

Partition key	Sort key	Capacity mode	Table status
author_name (String)	book_title (String)	Provisioned	⊘ Active
			⊘ No active alarms

Tables (1)

Tag

Any table tag ▼

🔍 Find tables by name

‹ 1 › ⚙

🔘 m6a3_dynamodb_library_table

▼ **m6a3_dynamodb_library_table**

[View table details]

| Scan | Query |

Table or index

m6a3_dynamodb_library_table ▼

▶ Filters

Run   Reset

✓ Completed Read capacity units consumed: 0.5

Items returned (0)

🔄 [Actions ▼] [Create item]

‹ 1 › ⚙ ⤢

□

The query did not return any results.

14. Create item

DynamoDB > Items: m6a3_dynamodb_library_table > Item editor

Create item

[Form] [JSON]

Attributes

⊞ Attribute name	Value	Type
author_name - *Partition key*	John Grisham	String
book_title - *Sort key*	The Firm	String

[Add new attribute ▼]

Cancel [Create item]

15. Enter values

16. Save

---

17. Repeat steps 14-16 to create 3 such records

✓ Completed Read capacity units consumed: 0.5

Items returned (3)

☐	author_n... ▽	book_title
☐	Stephen Ha...	A brief history of time
☐	John Grisham	The Firm
☐	Michael Cri...	Jurassic Park

DynamoDB

- Dashboard
- Tables
- Items *New*
- PartiQL editor *N*
- **Backups**
- Exports to S3
- Reserved capacity

▼ DAX
- Clusters
- Subnet groups
- Parameter groups
- Events

Tell us what you think

Return to the previous console experience

DynamoDB > Backups

Backups Info

Backup settings - *new* Info

[Enable]

Allow options for cross-Region and cross-account copy, cost allocation tags, and cold storage tiering for backups.

⊘ Not enabled

18. Select Backups in DynamoDB console

Backups (0) Info

[↻] [View details] [Restore] [Copy] [Delete] [Create backup ▼]

🔍 Find backups by ARN or name

< 1 > ⚙

☐	Name ▽	Table ▽	Status ▽	Creation time ▽	ARN ▽	Size ▽	Type ▽

19. Create backup

[Create backup]

Create on-demand backup

Create a one-time snapshot backup of your table. Schedule automatic backups of your table in AWS Backup ↗

Backup settings Info

ⓘ Advanced features are available for backups. Learn more ↗   [Go to backup settings]

20. Select table to backup

Source table

🔍 m6a3_dynamodb_library_table   ✕   ↻

21. Select name of backup

Backup name
This will be used to identify your backup.

m6a3_dynamodb_library_table_backup

Between 3 and 255 characters in length. Only A-Z, a-z, 0-9, underscore characters, hyphens, a...

22. Create backup

[Cancel]   [Create backup]

⊘ The m6a3_dynamodb_library_table_backup backup has been created successfully.

DynamoDB > Backups

Backups Info

Backup settings - *new* Info
Settings apply to new backups in this account and Region.

Advanced features with AWS Backup
⊘ Not enabled

Backups (1) Info

🔍 Find backups by ARN or name

23. Verify that backup is created

		▽	Status
☐	m6a3_dynamodb_library_table_backup	m6a3_dynamodb_library_table	⊘ Available

DynamoDB ✕

DynamoDB > Tables

Dashboard
Tables (1) Info

Tables

Items New   ...s by table name   Any table tag ▼

PartiQL editor New

Backups

Exports to S3

Reserved capacity

☑	Name ▲	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode	Ta...
☑	m6a3_dynamodb_...	⊘ Active	author_name (String)	book_title (String)	0	Provisioned with auto scaling (5)	Provisioned with auto scaling (5)	DynamoDB Standard	Default

24. Select Tables

26. Delete

🔄 | Actions ▼ | Delete | Create table

1 › ⚙

25. Select Tables

Delete table ✕

You are about to delete a table.

• m6a3_dynamodb_library_table

☑ Delete all CloudWatch alarms for this table.

☐ Create a backup of this table before deleting it.
  If you do not select this check box, you will not be able to restore data being deleted.

To confirm the deletion of this table, type *dele...*

delete

27. Type "delete"

Cancel | Delete table

28. Confirm

DynamoDB > Tables

Tables (1) Info

🔍 Find tables by table name

☐

29. Wait until table is deleted

☐ m6a3_dynamodb_...   🕐 Deleting