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**Batch: CCVT B7 3<sup>rd</sup> year.**

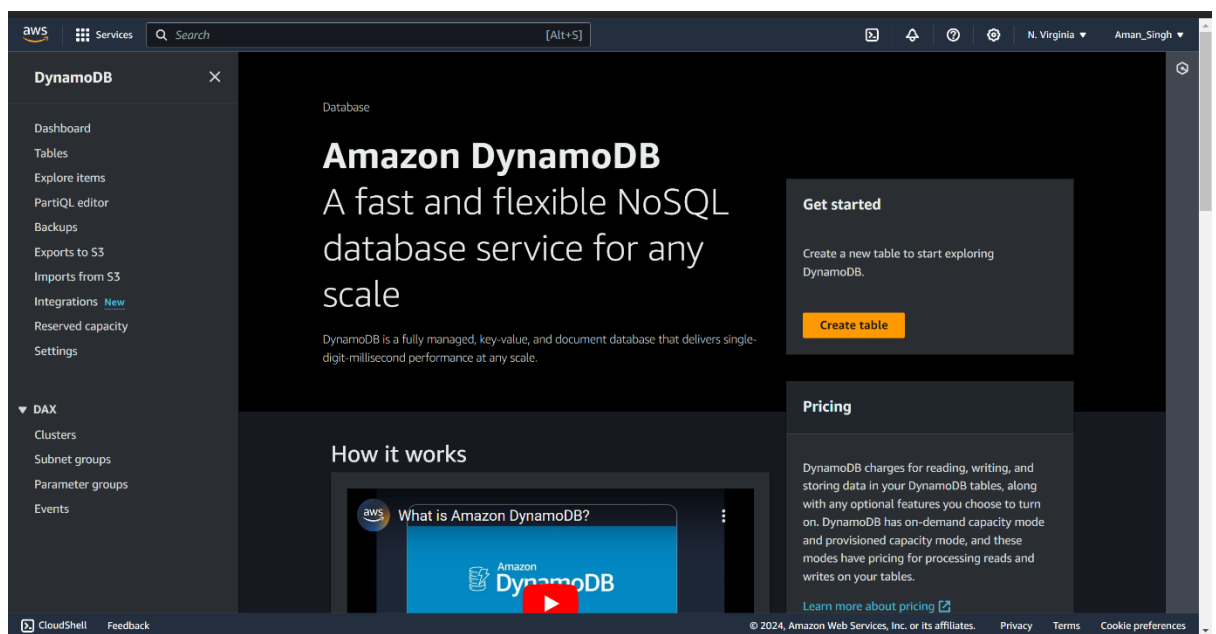
**R2142221007**

## ***Lab Experiment 3***

### **: Introduction to Amazon DynamoDB**

**In this lab, you will:**

- **Create an Amazon DynamoDB table**
- **Enter data into an Amazon DynamoDB table**
- **Query an Amazon DynamoDB table**
- **Delete an Amazon DynamoDB table**



1) First, we will create a table named as Music with primary key as singer name and sort key as song.

The screenshot shows the AWS Management Console for DynamoDB. The 'Table details' page for a table named 'Music' is displayed. The table name is 'Music'. The partition key is 'Artist' with a data type of 'String'. The sort key is 'Song' with a data type of 'String'. The table settings are set to 'Default settings'.

**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.  
  
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.  
   
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.  
   
1 to 255 characters and case sensitive.

**Table 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.

2) Then we will click on create item to add items in table.

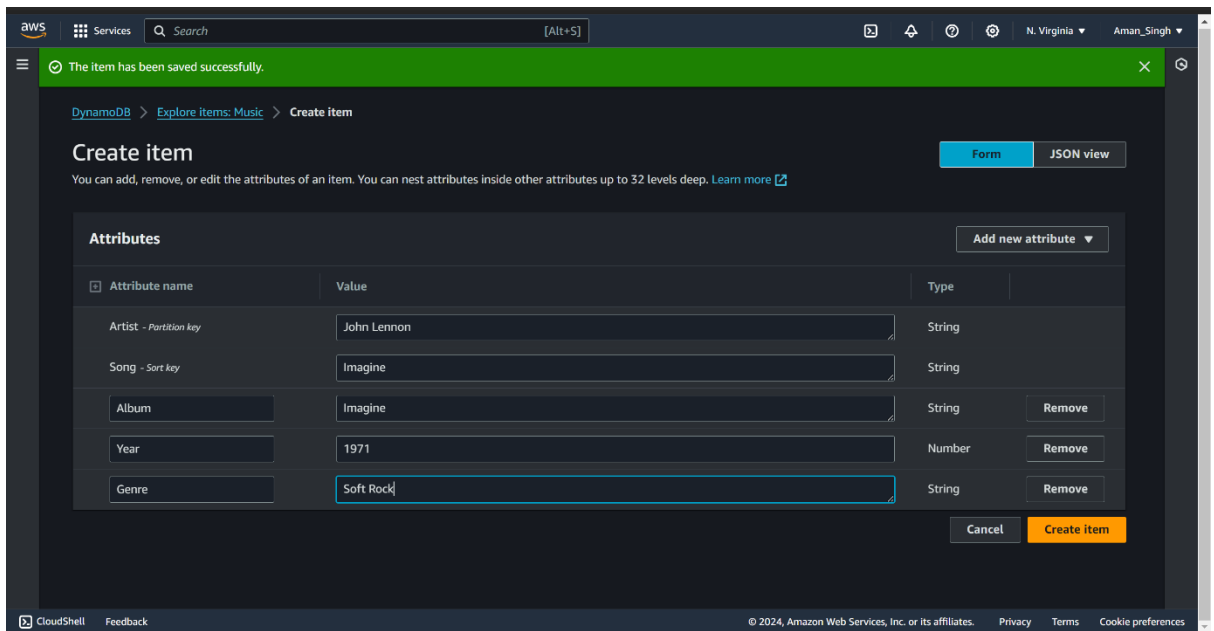
The screenshot shows the AWS Management Console for DynamoDB. The 'Create item' page for the 'Music' table is displayed. The page shows the attributes of the item being created: Artist (Partition key) with value 'Pink Floyd', Song (Sort key) with value 'Money', Album with value 'The Dark Side of the Moon', and Year with value '1973'. The 'Create item' button is highlighted.

**Create item** [Form](#) [JSON view](#)  
You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

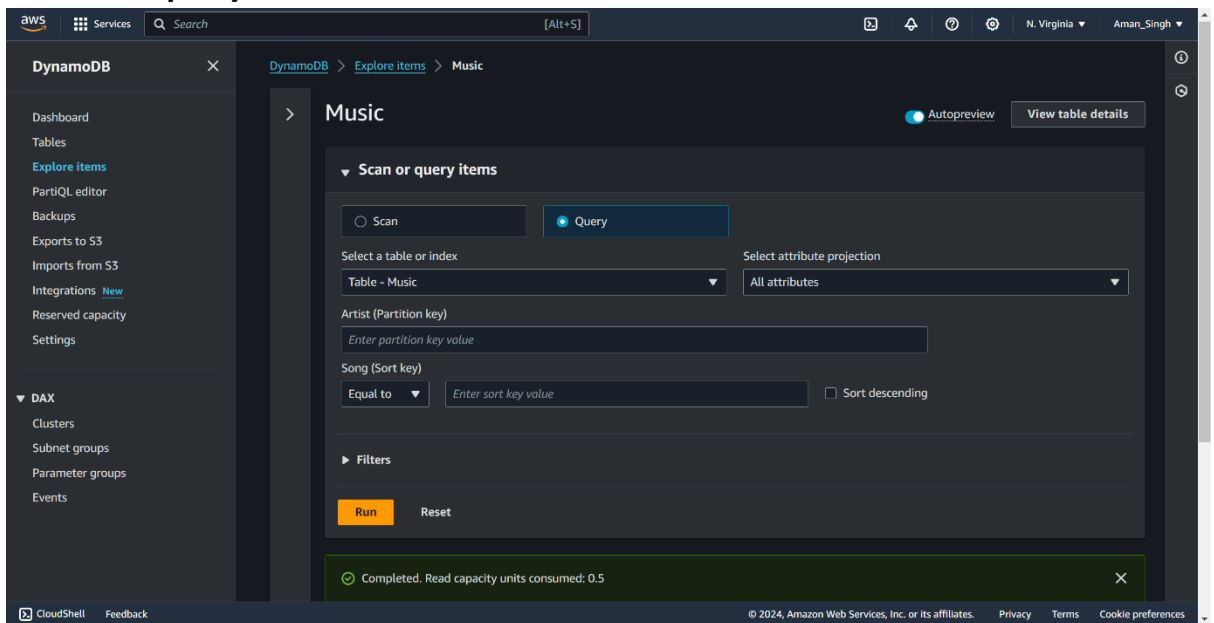
**Attributes** [Add new attribute](#)

Attribute name	Value	Type	
Artist - Partition key	<input type="text" value="Pink Floyd"/>	String	
Song - Sort key	<input type="text" value="Money"/>	String	
Album	<input type="text" value="The Dark Side of the Moon"/>	String	<a href="#">Remove</a>
Year	<input type="text" value="1973"/>	String	<a href="#">Remove</a>

[Cancel](#) [Create item](#)



### 3) Then will query in the table.



aws

Services

Search

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DynamoDB

Dashboard

Tables

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Integrations New

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

Select table or index

Table - Music

Select attribute projection

All attributes

Artist (Partition key)

Fotty Seven

Song (Sort key)

Equal to

Bhai Hai

☒ Sort descending

Filters

Run

Reset

Completed. Read capacity units consumed: 0.5

Items returned (1)

Refresh

Actions

Create item

< 1 >

Settings

Grid

<input type="checkbox"/>	Artist (String)	Song (String)	Album	Year
<input type="checkbox"/>	Fotty Seven	Bhai Hai	Bhai	2022

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Dashboard

Tables

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PartiQL editor

Backups

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Imports from S3

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Song (Sort key)

Equal to

Bhai Hai

☐ Sort descending

Filters

Attribute name

Type

Condition

Value

Enter attribute name

String

Equal to

Enter attribute value

Remove

Add filter

Run

Reset

Completed. Read capacity units consumed: 0.5

Items returned (1)

Refresh

Actions

Create item

< 1 >

Settings

Grid

<input type="checkbox"/>	Artist (String)	Song (String)	Album	Year
<input type="checkbox"/>	Fotty Seven	Bhai Hai	Bhai	2022

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#### 4) After query we will delete the table.

