Day 30 - 05th Sept 2025

Task 01:

Create a table using AWS Management Console

10.38 to 10.43

Task 02:

Use all the CRUD operations using AWS Management Console.

10.44 to 10.54

DynamoDb Architecture

Create table using scripts in Cloud Shell

aws dynamodb create-table --table-name Teachers --attribute-definitions AttributeName=ID,AttributeType=S AttributeName=TName,AttributeType=S --key-schema AttributeName=ID,KeyType=HASH AttributeName=TName,KeyType=RANGE --provisioned-throughput ReadCapacityUnits=1,WriteCapacityUnits=1

Put item

aws dynamodb put-item --table-name Teachers01 --item '{"ID":{"S":"10"}}'

Get- item

aws dynamodb get-item --table-name Teachers --key '{"ID": {"S": "T0001"}}' --consistent-read

Or

aws dynamodb get-item --table-name Teachers --key '{"ID": {"S": "T0001"}}'

aws dynamodb get-item --table-name Teachers --key '{"Rollno":{"N": "1"}, "First Name":{"S": "John"}}'

Get item

By Nihar

Delete a table

aws dynamodb delete-table --table-name Custtomer

Command to show the list of tables

aws dynamodb list-tables

--- I want to know my tables - details

- key schema, capacity mode, provisioned read and write capacity units...

description

aws dynamodb describe-table --table-name Student

backup of a table

: full back up, on demand back up

aws dynamodb create-backup --table-name Student --backup-name StudentbkUp

list of backups

aws dynamodb list-backups

ARN : Amazone Resource Name

backup-arn is

arn:aws:dynamodb:us-east-1:026090546501:table/Student/backup/01757069109744-be2ae3aa

describe the backup

aws dynamodb describe-backup --backup-arn arn:aws:dynamodb:us-east-1:026090546501:table/Student/backup/01757069109744-be2ae3aa

restore table from backup

aws dynamodb restore-table-from-backup --target-table-Name restoreStudent --backup-arn arn:aws:dynamodb:us-east-1:026090546501:table/Student/backup/01757069109744-be2ae3aa

List the tables top check if the back up is restored

scan / getting all items from the table

aws dynamodb scan –table-name Student

Query for an Item

aws dynamodb query --table-name Teachers01 --key-condition-expression "ID = :v1" --expression-attribute-values '{":v1": {"S": "10"}}' by Pax..

Query:

get set of items

aws dynamodb query --table-name Teacher01 --key-condition-expression "ID = :v1" --expression-attribute-values '{":v1": {"S": "good Luck"}}'

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Pending

Query:

get set of items

aws dynamodb query --table-name Teacher01 --key-condition-expression "ID = :myId" --expression-attribute-values '{":v1": {"S": "good Luck"}}'

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query sorting

aws dynamodb query --table-name Teachers01 --key-condition-expression "ID = :myID" --expression-attribute-values '{":v1": {"S": "good luck"}}' --filter-expression 'attribute\_not\_exists(updatedAt)' --scan-index-forward

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query Pagination

NextToken : return value -- will tell you when query stopped

Starting-token : parameter -- will tell you when will be the next query operation should begin..

aws dynamodb query --table-name Teachers01 --ket-condition-expression "ID = :myID" --expression-attribute-values '{":v1": "S": "good luck"}}' --filter-expression 'attribute\_not\_exists(updatedAt)' --scan-index-forward --starting-token '<next value>'

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Info Box:

Projects allocated to batch 2

<https://drive.google.com/drive/folders/1JxEfQiKEiW9hq1YyCkpbGxXkkfoO2PjQ?usp=sharing>

Projects – Google Drive

Doc name is : All projects 10 day plan

sheet name is : Batch2 projects.

Excalidraw Updated at 12.45

<https://excalidraw.com/#json=L2DaHthbxnrfkCyJgmU_Q,odS3e5F5xFW8STWWbJv7IA>

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Add ons:

Ways to reduce code - dynamodb — doc in Module 4 Dynamodb folder

<https://drive.google.com/drive/folders/19jURMCjQRnl-j56VLupBhuCgkSr7oLrf?usp=sharing>

Amazon AWS dynamoDb doc for reference…

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide>

CPS-user-stories link

<https://docs.google.com/document/d/1cHdvgX-qlfIHPl4ryMtQOcfcSWZw7Dqv/edit?usp=sharing&ouid=103020917863623365252&rtpof=true&sd=true>

Project doc link..

<https://drive.google.com/drive/folders/1JxEfQiKEiW9hq1YyCkpbGxXkkfoO2PjQ?usp=sharing>