Day 30 - 05th Sept 2025

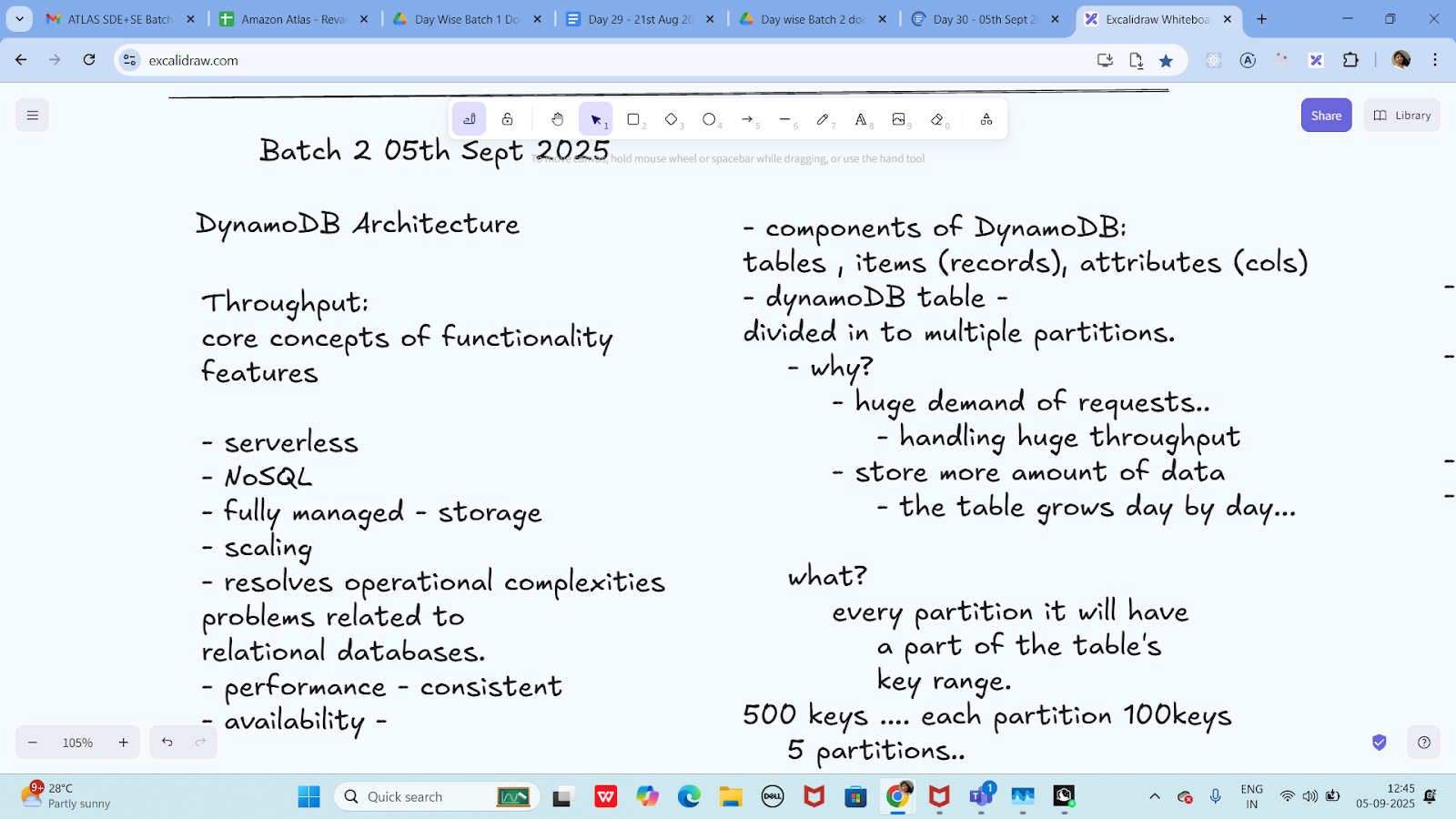
Task 01:

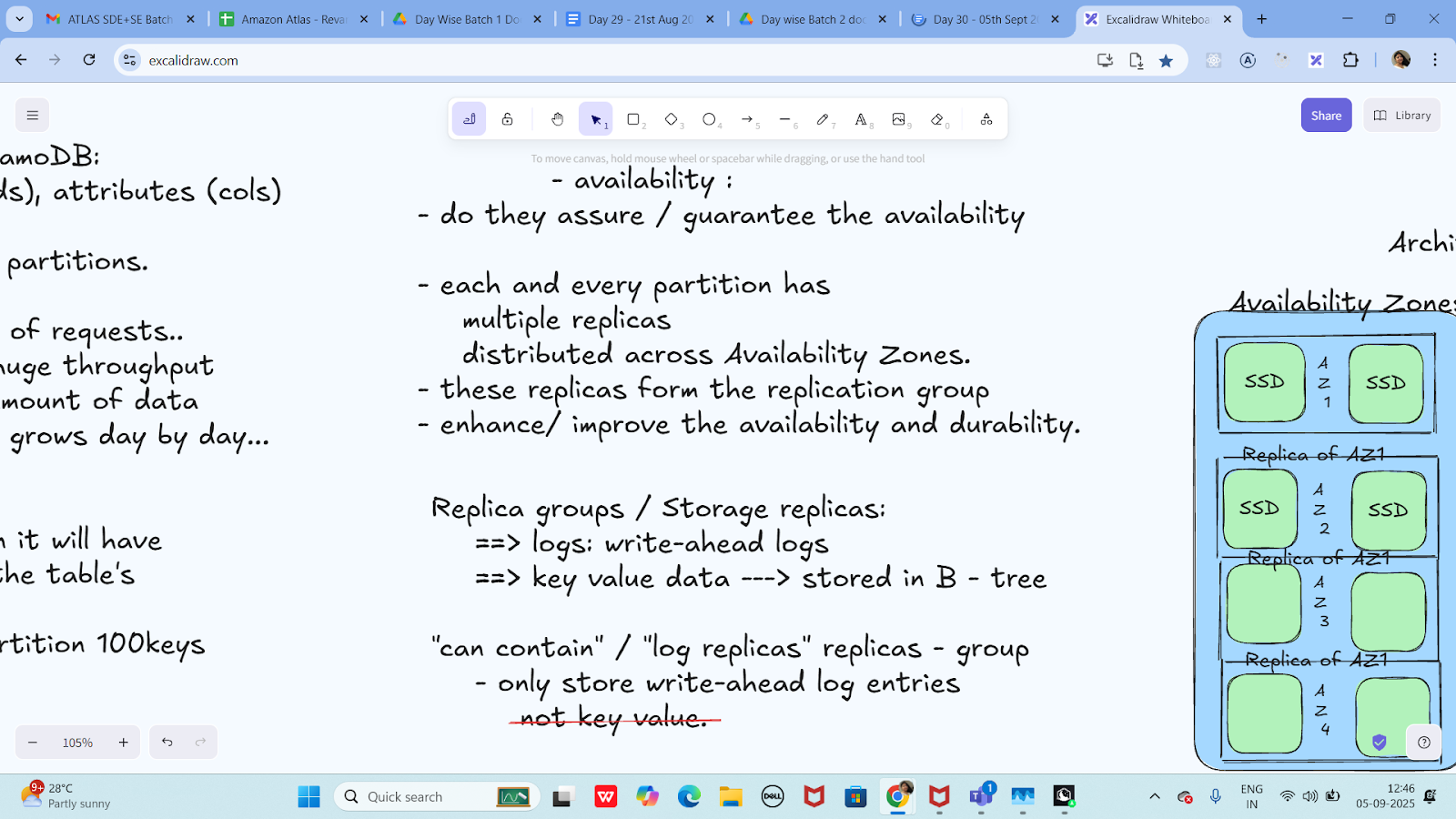
Create a table using AWS Management Console

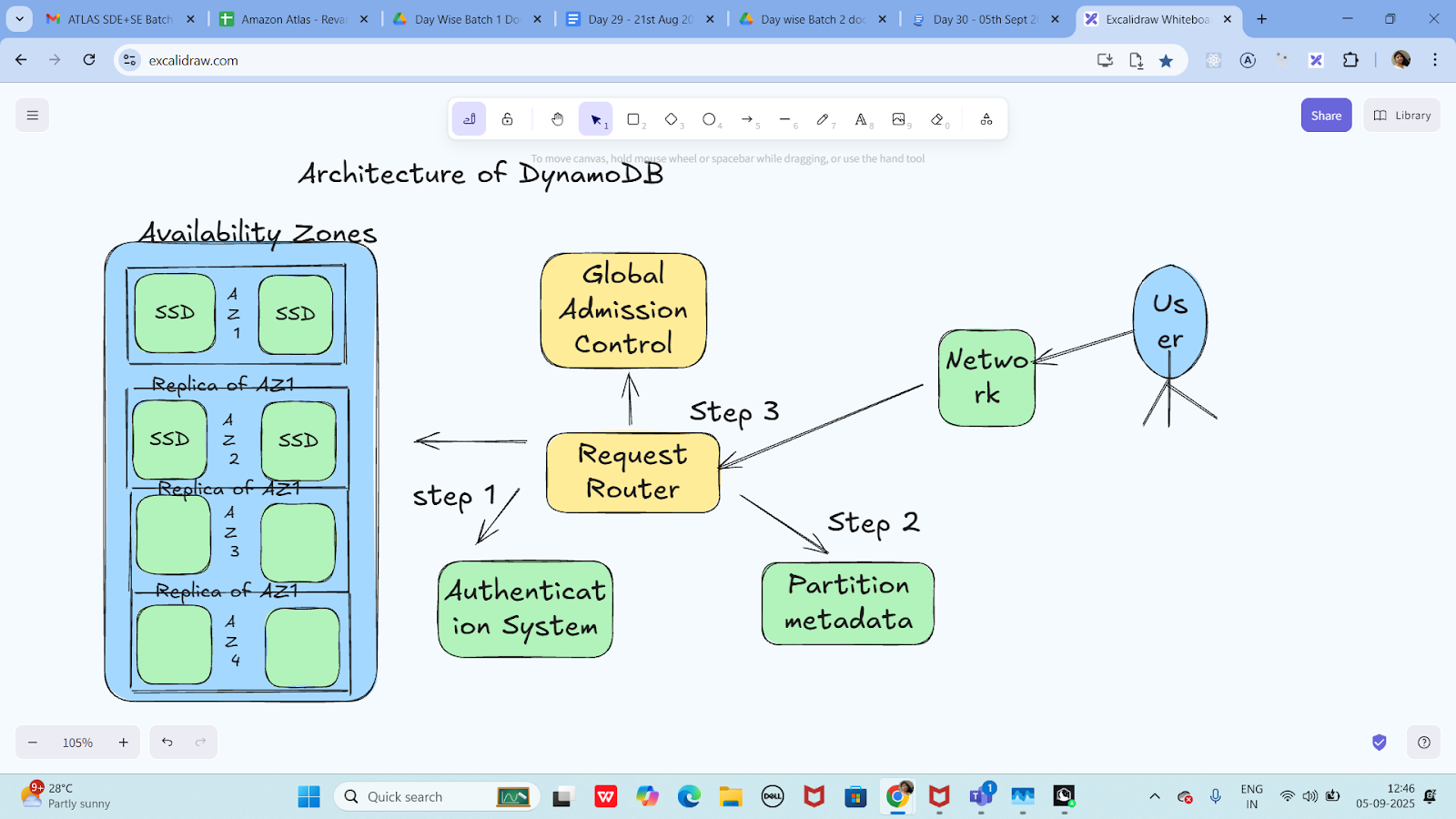
Task 02:

Use all the CRUD operations using AWS Management Console.

DynamoDb Architecture







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 &#39;{&quot;ID&quot;:{&quot;S&quot;:&quot;10&quot;}}&#39;

Get- item

aws dynamodb get-item --table-name Teachers --key &#39;{&quot;ID&quot;: {&quot;S&quot;: &quot;T0001&quot;}}&#39; --consistent-read

Or

aws dynamodb get-item --table-name Teachers --key &#39;{&quot;ID&quot;: {&quot;S&quot;: &quot;T0001&quot;}}&#39;

aws dynamodb get-item --table-name Teachers --key &#39;{&quot;Rollno&quot;:{&quot;N&quot;: &quot;1&quot;}, &quot;First Name&quot;:{&quot;S&quot;:

&quot;John&quot;}}&#39;

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 &quot;ID = :v1&quot; --

expression-attribute-values &#39;{&quot;:v1&quot;: {&quot;S&quot;: &quot;10&quot;}}&#39;

by Pax..

Query:

get set of items

aws dynamodb query --table-name Teacher01 --key-condition-expression &quot;ID = :v1&quot; --

expression-attribute-values &#39;{&quot;:v1&quot;: {&quot;S&quot;: &quot;good Luck&quot;}}&#39;

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Pending

Query:

get set of items

aws dynamodb query --table-name Teacher01 --key-condition-expression &quot;ID = :myId&quot; --

expression-attribute-values &#39;{&quot;:v1&quot;: {&quot;S&quot;: &quot;good Luck&quot;}}&#39;

query sorting

aws dynamodb query --table-name Teachers01 --key-condition-expression &quot;ID = :myID&quot; --

expression-attribute-values &#39;{&quot;:v1&quot;: {&quot;S&quot;: &quot;good luck&quot;}}&#39; --filter-expression

&#39;attribute\_not\_exists(updatedAt)&#39; --scan-index-forward

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 &quot;ID = :myID&quot; --

expression-attribute-values &#39;{&quot;:v1&quot;: &quot;S&quot;: &quot;good luck&quot;}}&#39; --filter-expression

&#39;attribute\_not\_exists(updatedAt)&#39; --scan-index-forward --starting-token &#39;&lt;next value&gt;&#39;

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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>