

## LAB ASSIGNMENTS 3: AWS RDS and DynamoDB

### AWS RDS

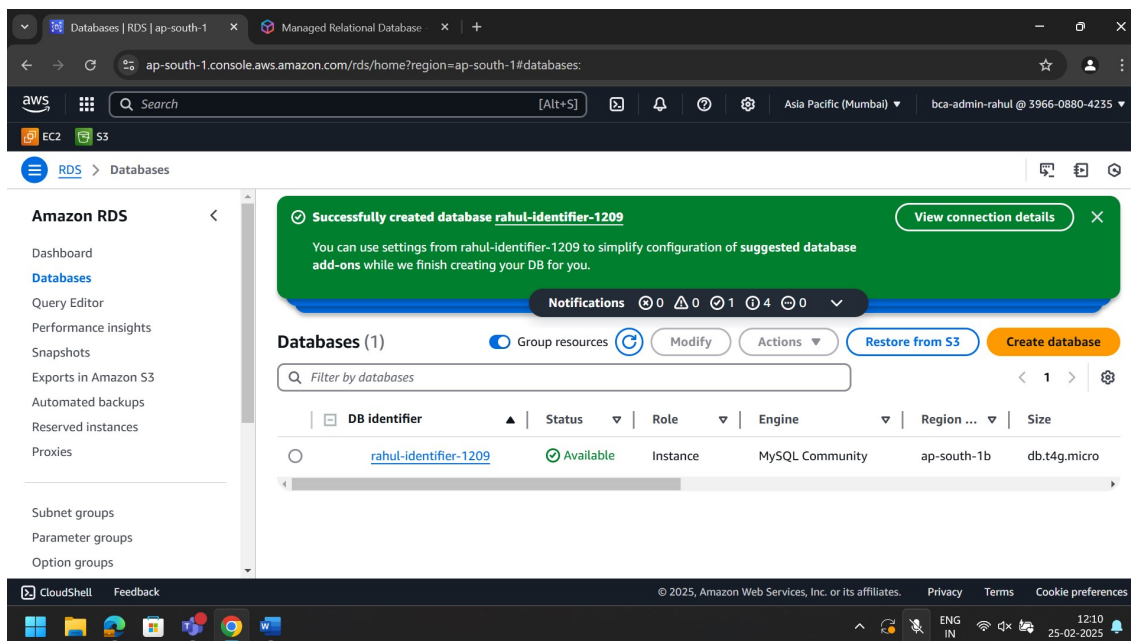
Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the AWS Cloud.

It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks.

Explore RDS services and costing and when to use which service

Instruction:

1. go to rds service choose free tier mysql
2. provide DB instance identifier for example mydbraj12345id
3. provide db name rajdb root root1234
4. Integrate with Spring boot



```
Command Prompt - mysql -h x + v
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rahul.kalekar>mysql -h rahul-identifier-1209.czcysi4uu8cw.ap-south-1.rds.amazonaws.com -P 3306 -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 68
Server version: 8.0.40 Source distribution

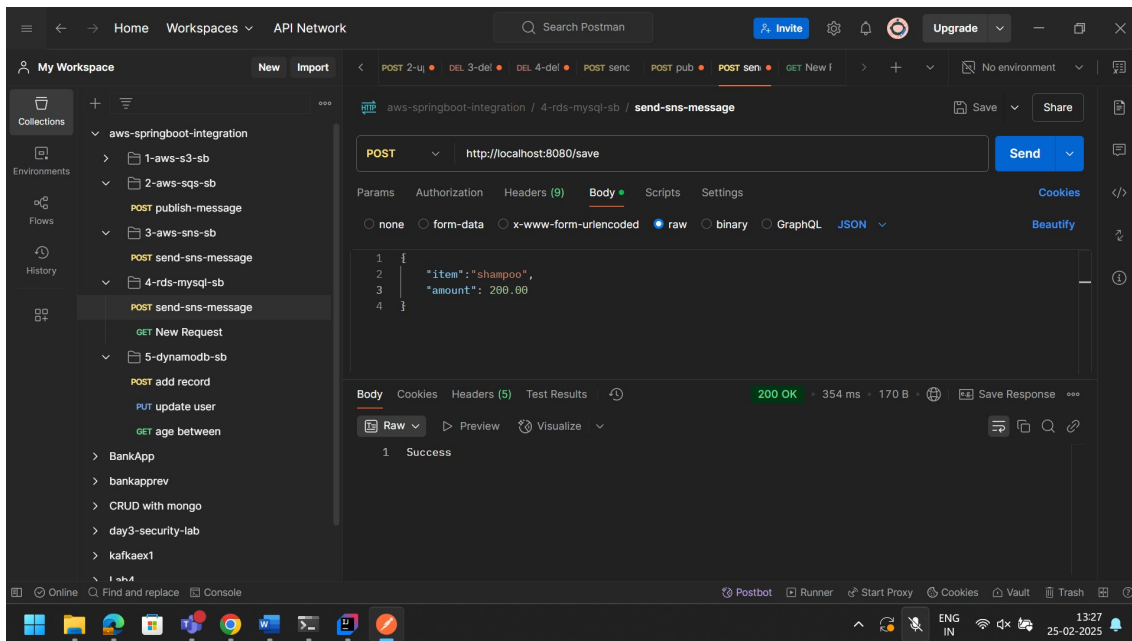
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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| bookstore |
| expensedb |
| information_schema |
| mysql |
| performance_schema |
| rahul |
| sys |
+-----+
7 rows in set (0.03 sec)

mysql> |
```



```
mysql> create database expensedb;  
Query OK, 1 row affected (0.04 sec)
```

```
mysql> use expensedb;  
Database changed
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_expensedb |  
+-----+
```

```
| expense |  
+-----+
```

```
1 row in set (0.03 sec)
```

```
mysql> select * from expense;
```

```
+----+-----+-----+  
| id | amount | item |  
+----+-----+-----+
```

```
| 1 | 200 | shampoo |  
+----+-----+-----+
```

```
1 row in set (0.02 sec)
```

```
mysql> |
```

The screenshot displays the Postman application interface. On the left, the 'My Workspace' sidebar shows a collection named 'aws-springboot-integration' with several sub-collections and individual requests. The main panel shows a 'New Request' for a GET method to the endpoint 'http://localhost:8080/findall'. The 'Query Params' section is empty. The 'Body' tab is selected, showing a JSON response with a status of '200 OK', a response time of '663 ms', and a body size of '206 B'. The JSON response is as follows:

```
[  
  {  
    "id": 1,  
    "item": "shampoo",  
    "amount": 200.0  
  }  
]
```

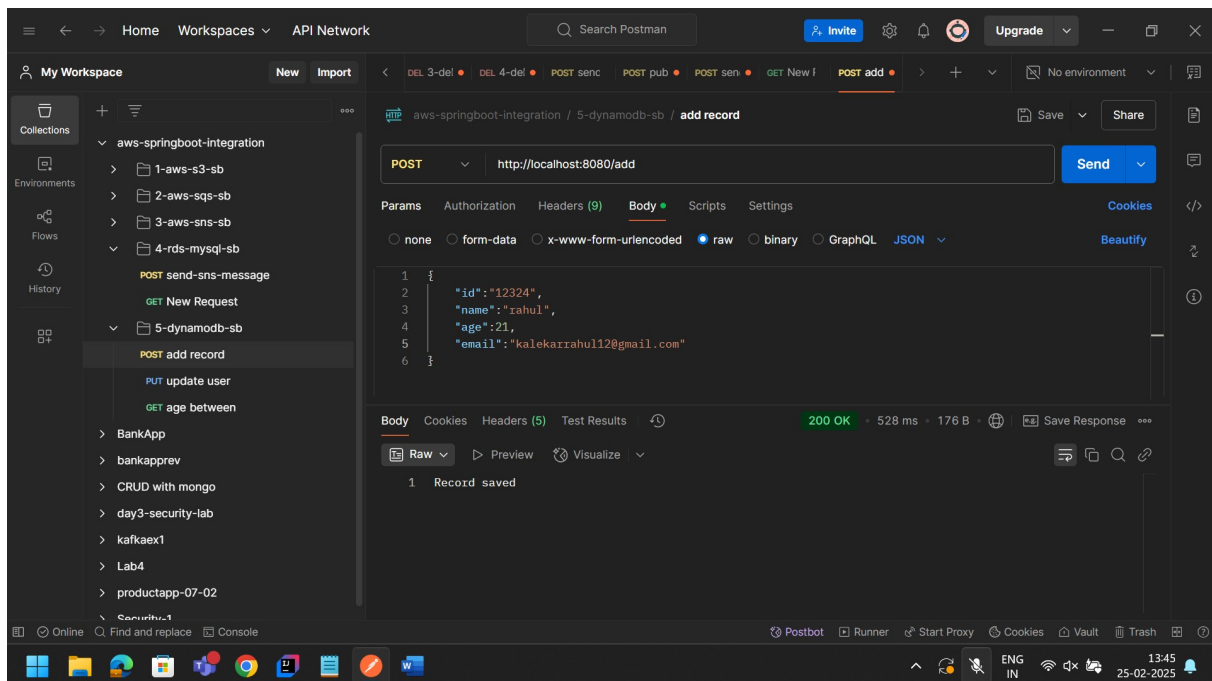
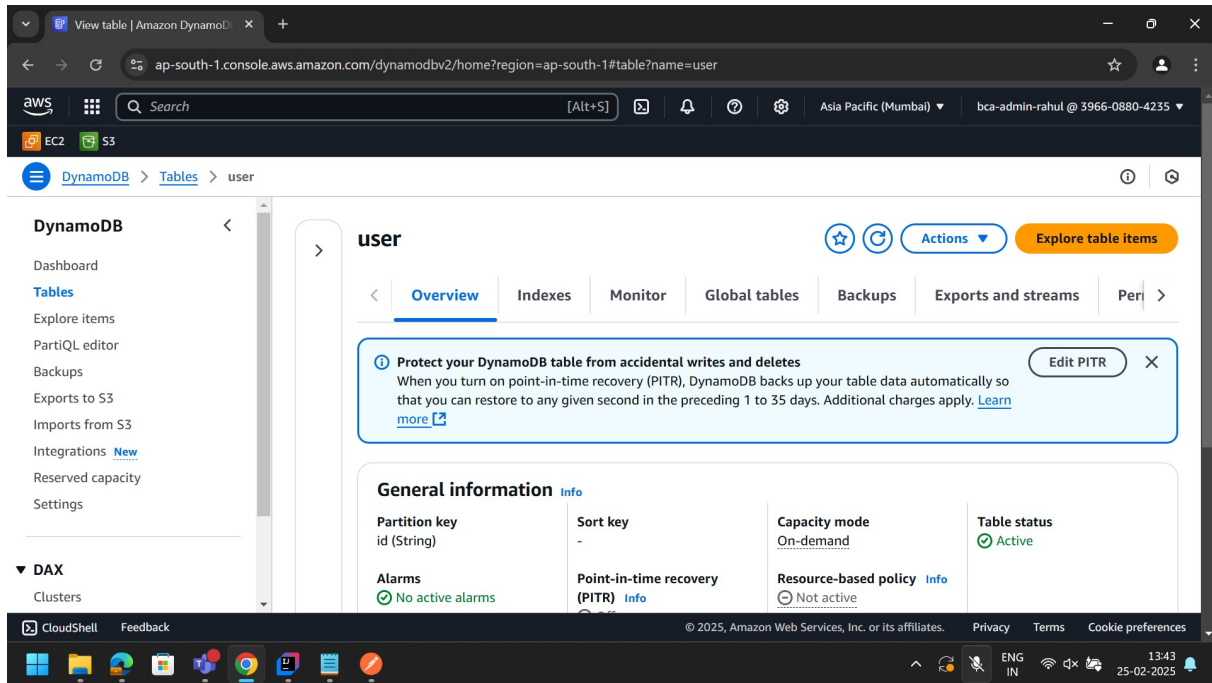
The bottom status bar indicates the system language is 'ENG IN', the date is '25-02-2025', and the time is '13:28'.

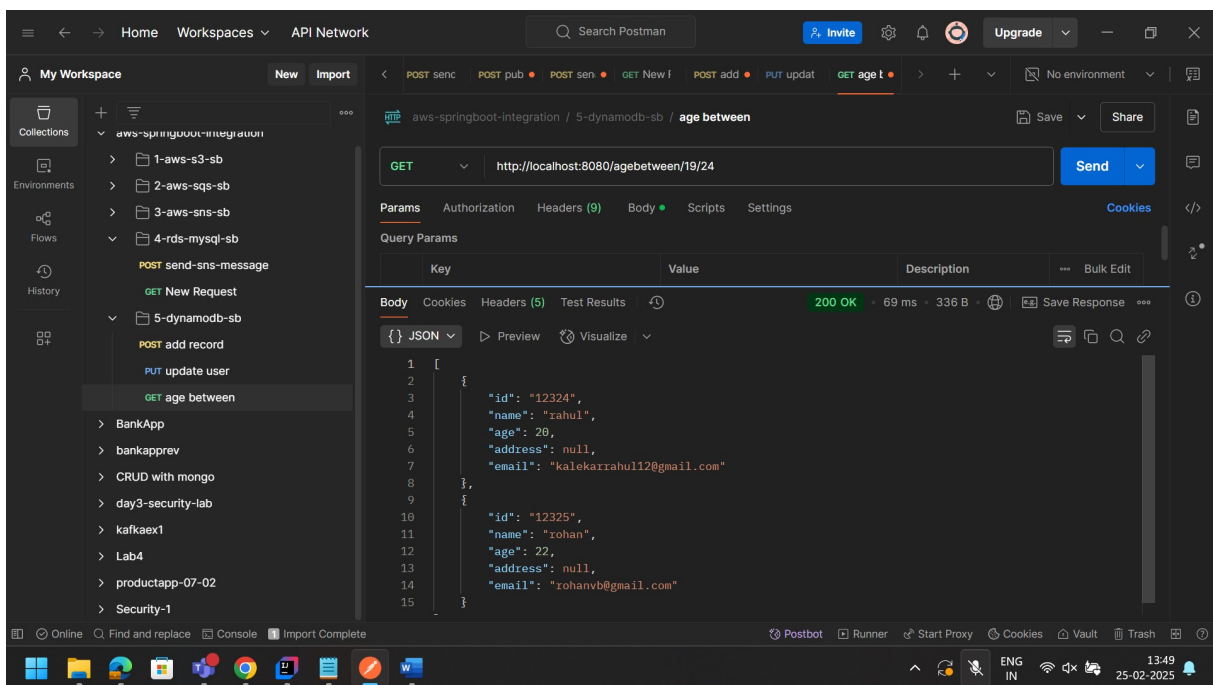
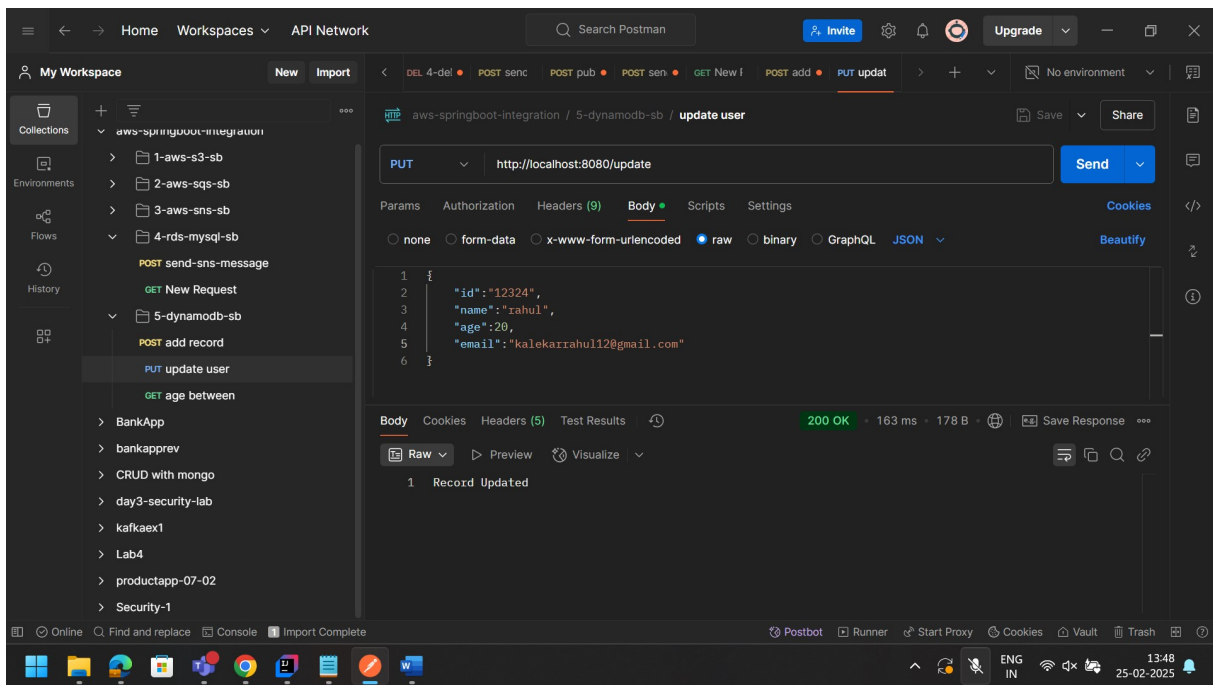
## DynamoDB

Amazon DynamoDB is a database service from Amazon Web Services (AWS) that stores and retrieves data in key-value pairs.  
It's a NoSQL database that's cloud-native, meaning it only runs on AWS.

Instruction:

Example : creating dynamodb table and running with spring boot application





Items | Amazon DynamoDB Ma

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#item-explorer?operation=SCAN&table=user

Search [Alt+S]

Asia Pacific (Mumbai)

bca-admin-rahul @ 3966-0880-4235

EC2 S3

DynamoDB

Explore items

user

Dashboard

Tables

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Integrations New

Reserved capacity

Settings

DAX

Clusters

Scan or query items

Expand to query or scan items.

Completed. Read capacity units consumed: 2

Items returned (3)

Actions Create item

< 1 > ⚙️ 🔍

<input type="checkbox"/>	id (String)	age	email	name
<input type="checkbox"/>	<a href="#">12324</a>	20	kalekarrahu...	rahul
<input type="checkbox"/>	<a href="#">12325</a>	22	rohanvb@g...	rohan
<input type="checkbox"/>	<a href="#">12326</a>	25	ani@gmail...	ani

CloudShell Feedback

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ENG IN 13:49 25-02-2025