**Step 1: Prerequisites**

1. **AWS Account**
   * Sign up for an AWS account if you don’t have one. Go to [AWS Console](https://aws.amazon.com/console/).
2. **IAM Role/Policy**
   * Ensure your user has permissions for DynamoDB. Attach the **AmazonDynamoDBFullAccess** policy to your IAM role or user.

**Step 2: Access DynamoDB Console**

1. Go to the [AWS DynamoDB Console](https://console.aws.amazon.com/dynamodb/).
2. Ensure you are in the correct **AWS Region** (top-right corner). DynamoDB tables are region-specific.

**Step 3: Create a DynamoDB Table**

**Explanation:**

A table in DynamoDB is a collection of data items with the same primary key structure.

1. **Navigate to Tables**:
   * In the DynamoDB console, click **"Create Table"**.
2. **Define Table Name**:
   * Enter a name for your table (e.g., UsersTable).
3. **Set Primary Key**:
   * Choose a unique key to identify each item.
   * Example:
     + Partition Key: UserID (String) – uniquely identifies each user.
4. **Optional: Sort Key**:
   * Add if needed for additional queries.
   * Example: Timestamp (Number) – to sort user actions by time.
5. **Set Table Settings**:
   * For a beginner, choose the **"On-Demand Capacity"** option to let AWS handle scaling automatically.
6. **Encryption**:
   * Keep default encryption unless your use case requires a custom key.
7. **Create Table**:
   * Click **"Create Table"**. AWS will initialize your table.

**Step 4: Add Data to Your Table**

**Explanation:**

DynamoDB stores data as items (similar to rows in a relational database) in a schema-less format using JSON-like key-value pairs.

1. **Go to Your Table**:
   * Click on the table name in the list.
2. **Add Items**:
   * Select the **"Items"** tab and click **"Create Item"**.
3. **Enter Data**:
   * Example:

json

Copy code

{

"UserID": "101",

"Name": "John Doe",

"Age": 30,

"Email": "john.doe@example.com"

}

1. **Save Item**:
   * Click **"Save"** to add the item.

**Step 5: Query Data**

**Explanation:**

Queries in DynamoDB allow you to retrieve data based on the primary key and optional filters.

1. **Go to Your Table**:
   * Open the table you created.
2. **Query**:
   * Select the **"Explore Table Items"** tab.
   * Enter a value for the **Partition Key** (e.g., UserID = 101).
3. **Run Query**:
   * Click **"Run"** to retrieve matching items.

**Step 6: Monitor Your Table**

**Explanation:**

Monitoring helps you track table performance and activity.

1. **Go to the Monitoring Tab**:
   * Open your table and select **"Metrics"**.
2. **Check Key Metrics**:
   * **Read/Write Capacity**: See how much capacity your table uses.
   * **Throttling**: Indicates if requests are being limited due to high usage.

**Step 7: Clean Up Resources**

**Explanation:**

If you no longer need the table, delete it to avoid unnecessary charges.

1. **Delete Table**:
   * Select your table in the console.
   * Click **"Delete Table"** and confirm.