

## Create the ProductCatalog Table

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb/>.
2. Choose **Create Table**.
3. In the **Create DynamoDB table** screen, do the following:
  - a. In the **Table** name field, type `ProductCatalog`.
  - b. For the **Primary key**, in the **Partition key** field, type `Id`. Set the data type to **Number**.
4. When the settings are as you want them, choose **Create**.

## Create the Forum Table

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb/>.
2. Choose **Create Table**.
3. In the **Create DynamoDB table** screen, do the following:
  - a. In the **Table** name field, type `Forum`.
  - b. For the **Primary key**, in the **Partition key** field, type `Name`. Set the data type to **String**.
4. When the settings are as you want them, choose **Create**.

## Create the Thread Table

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb/>.
2. Choose **Create Table**.
3. In the **Create DynamoDB table** screen, do the following:
  - a. In the **Table name** field, type `Thread`.
  - b. For the **Primary key**, do the following:
    - In the **Partition key**, field, type `ForumName`. Set the data type to **String**.
    - Choose **Add sort key**.
    - In the **Sort key** field, type `Subject`. Set the data type to **String**.
4. When the settings are as you want them, choose **Create**.

## Create the Reply Table

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb/>.
2. Choose **Create Table**.

3. In the **Create DynamoDB table** screen, do the following:
  - a. In the **Table name** field, type `Reply`.
  - b. For the **Primary key**, do the following:
    - In the **Partition key** field, type `Id`. Set the data type to **String**.
    - Choose **Add sort key**.
    - In the **Sort key** field, type `ReplyDateTime`. Set the data type to **String**.
  - c. In the **Table settings** section, deselect **Use default settings**.
  - d. In the **Secondary indexes** section, choose **Add index**.
  - e. In the **Add index** window, do the following:
    - For the **Primary key**, do the following:
      - In the **Partition key** field, type `PostedBy`. Set the data type to **String**.
      - Select **Add sort key**.
      - In the **Sort key** field, type `Message`. Set the data type to **String**.
    - In the **Index name** field, type `PostedBy-Message-Index`.
    - Set the **Projected attributes** to **All**.
    - Choose **Add index**.
4. When the settings are as you want them, choose **Create**.

## Download the Sample Data File Archive

1. Download the sample data archive (`sampladata.zip`) using this link:
  - [sampladata.zip](#)
2. Extract the `.json` data files from the archive.
3. Copy the `.json` data files to your current directory.

## Load the Sample Data Into DynamoDB Tables

1. To load the *ProductCatalog* table with data, enter the following command:

```
aws dynamodb batch-write-item --request-items  
file://ProductCatalog.json
```

2. To load the *Forum* table with data, enter the following command:

```
aws dynamodb batch-write-item --request-items file://Forum.json
```

3. To load the *Thread* table with data, enter the following command:

```
aws dynamodb batch-write-item --request-items file://Thread.json
```

4. To load the *Reply* table with data, enter the following command:

```
aws dynamodb batch-write-item --request-items file://Reply.json
```

## Verify Data Load

You can use the AWS Management Console to verify the data that you loaded into the tables.

### To verify the data using the AWS Management Console

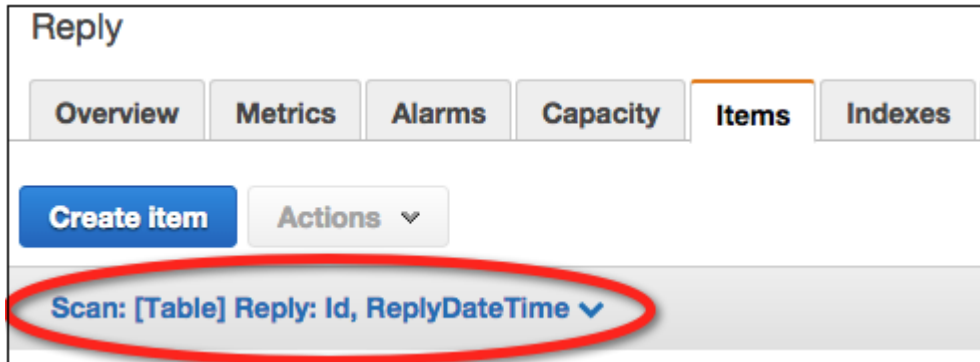
1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb>.
2. In the navigation pane, choose **Tables**.
3. In the list of tables, choose *ProductCatalog*.
4. Choose the **Items** tab to view the data that you loaded into the table.
5. To view an item in the table, choose its `Id`. (If you want, you can also edit the item.)
6. To return to the list of tables, choose **Cancel**.

## Step 4: Query the Data

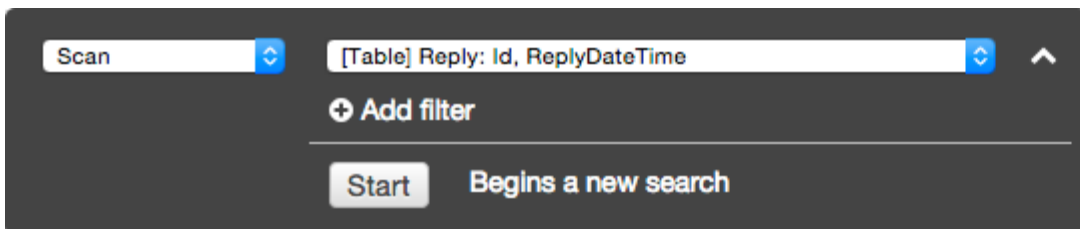
### Topics

In this step, you will try some simple queries against the tables that you created, using the DynamoDB console.

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb>.
2. In the navigation pane, choose **Tables**.
3. In the list of tables, choose *Reply*.
4. Choose the **Items** tab to view the data that you loaded into the table.
5. Choose the data filtering link, located just below the **Create item** button.



When you do this, the console reveals a data filtering pane.



6. In the data filtering pane, do the following:
  - a. Change the operation from **Scan** to **Query**.
  - b. For the **Partition key**, enter the value `Amazon DynamoDB#DynamoDB Thread`
    - 1.
  - c. Choose **Start**. Only the items that match your query criteria are returned from the *Reply* table.
7. The *Reply* table has a global secondary index on the `PostedBy` and `Message` attributes. You can use the data filtering pane to query the index. Do the following:
  - a. Change the query source from this:

`[Table] Reply: Id, ReplyDateTime`

to this:

[Index] PostedBy-Message-Index: PostedBy, Message

- b. For the **Partition key**, enter the value `User A`.
- c. Choose **Start**. Only the items that match your query criteria are returned from *PostedBy-Message-Index*.

## Step 5: (Optional) Delete Example Tables

This Amazon DynamoDB Developer Guide refers to these sample tables repeatedly, to help illustrate table and item operations using the DynamoDB API and various AWS SDKs. You might find these tables useful for reference, if you plan to read the rest of this Developer Guide.

However, if you don't want to keep these tables, you should delete them to avoid being charged for resources you don't need.

### To Delete the Sample Tables

1. Open the DynamoDB console at <https://console.aws.amazon.com/dynamodb>.
2. In the navigation pane, choose **Tables**.
3. In the list of tables, choose *ProductCatalog*.
4. Choose **Delete Table**. You will be asked to confirm your selection.