

## AWS:Start

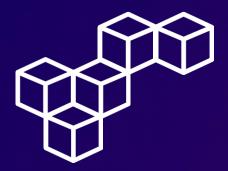
# Introduction to Amazon DynamoDB



WEEK 7







## Overview

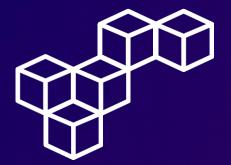
Amazon DynamoDB is a fast and flexible NoSQL database service for all applications that need consistent, single-digit millisecond latency at any scale. It is a fully managed database and supports both document and key-value data models. Its flexible data model and reliable performance make it a great fit for mobile, web, gaming, ad-tech, Internet of Things (IoT), and many other applications.

Amazon DynamoDB offers a comprehensive solution for database management by providing tools to create structured tables, input relevant data, execute precise queries for insightful analysis, and efficiently delete tables when necessary. These capabilities streamline data operations, ensuring databases are well-organized, populated with meaningful data, easily accessible for analysis, and maintainable for optimized performance. DynamoDB's versatility and user-friendly interface make it an indispensable tool for businesses seeking efficient and scalable database solutions.

#### **Topics covered**

- Create an Amazon DynamoDB table
- Enter data into an Amazon DynamoDB table
- Query an Amazon DynamoDB table
- Delete an Amazon DynamoDB table

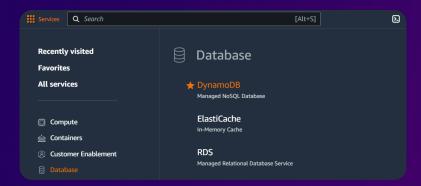




## Create a new table

#### **Step 1: Access the DynamoDB service**

Open the AWS Management Console, and select DynamoDB.



#### **Step 2: Create table**

In the **Get started** section, select Create table to create an Amazon DynamoDB table.



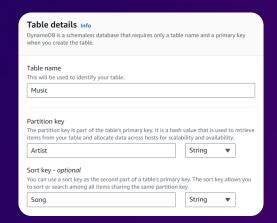




## Create a new table

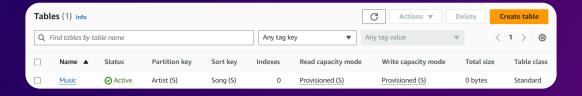
#### **Step 3: Table details**

In the Table details section, configure the following settings.



#### **Step 4: Review table creation**

Verify the Active status of the Music table.



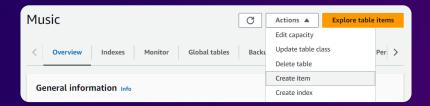




## **Add data**

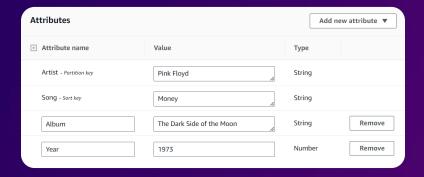
#### **Step 1: Create item**

Choose the **Music** table. Then, click the Actions button, and select Create item.

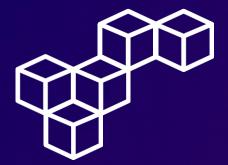


#### Step 2: Add an item

Add an item to the table using the following attributes.



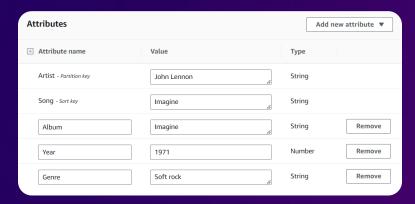




## **Add data**

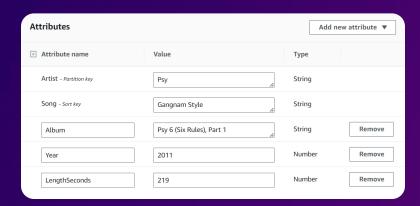
#### Step 3: Add a second item

Add a second item to the table using the following attributes.

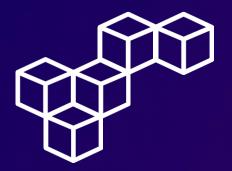


#### Step 4: Add a third item

Add a third item to the table using the following attributes.



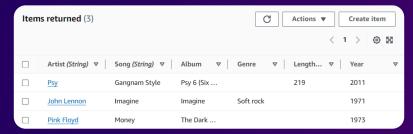




## **Modify an existing item**

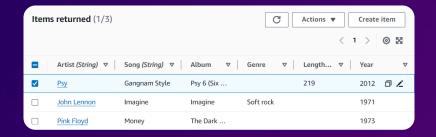
#### **Step 1: Explore items**

Navigate to the **Explore Items** section, and select the **Music** table.

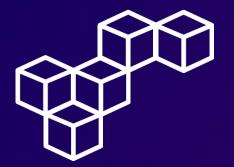


#### **Step 2: Edit items**

Choose 'Psy' and change the **Year** from 2011 to 2012.



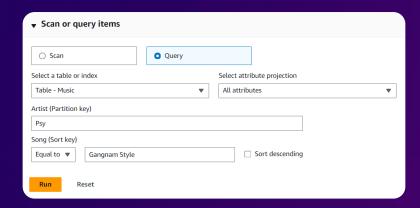




## Query the table

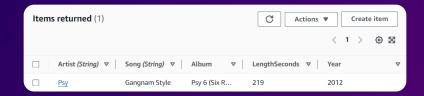
#### **Step 1: Query items**

Query the Music table using the following parameters.

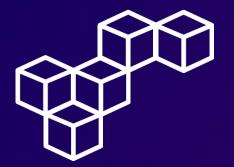


#### **Step 2: Review query results**

The song quickly appears in the list. A query is the most efficient way to retrieve data from a DynamoDB table.



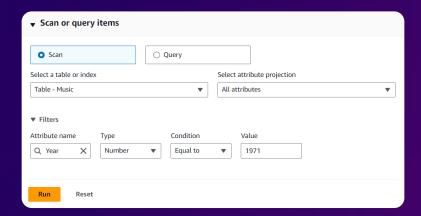




## Query the table

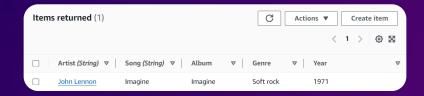
#### Step 3: Scan items

Scan the Music table using the following parameters.

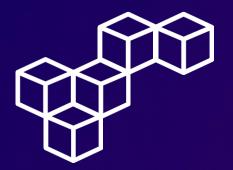


#### **Step 4: Review scan results**

Only the song released in 1971 is displayed. Scanning for an item involves looking through every item in a table, so it is less efficient and can take significant time for larger tables.



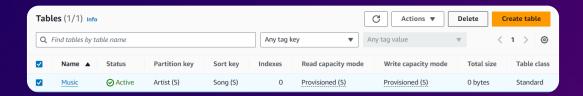




## Delete the table

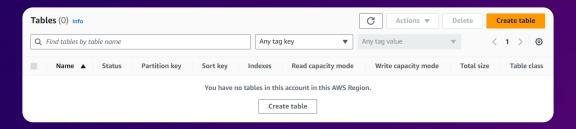
#### **Step 1: Delete the Music table**

Navigate to the **Tables** section, choose the **Music** table, and click the Delete button.



#### Step 2: Verify table deletion

The Music table has been deleted.







#### **Amazon DynamoDB**

Amazon DynamoDB offers a scalable and flexible solution for database management, catering to varying data needs.

#### **Create an Amazon DynamoDB table**

Creating a DynamoDB table provides a structured framework for organizing and storing data efficiently.

#### **Enter data into an Amazon DynamoDB table**

Entering data into DynamoDB tables is essential for populating databases with relevant information for analysis and retrieval.

#### **Query an Amazon DynamoDB table**

Querying DynamoDB tables enables users to extract specific data subsets, supporting insightful data analysis and decision-making processes.

#### **Delete an Amazon DynamoDB table**

Deleting DynamoDB tables allows for efficient data cleanup and maintenance, ensuring optimized performance and clutter-free databases.



## aws re/start



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