

DYNAMODB

➤ PURPOSE:

DynamoDB is a NoSQL database service that provides fast and consistent performance with seamless scalability. It is used to store and query large amounts of data that can handle high traffic and complex queries. DynamoDB also offers features such as encryption, backup and restore, and global tables for multi-region replication.

➤ PROCEDURE:

- Open DynamoDB in aws console & choose option Create Table.

The screenshot displays the Amazon DynamoDB console interface. At the top, there's a navigation sidebar with options like Dashboard, Tables, Update settings, Explore items, PartiQL editor, Backups, Exports to S3, Imports from S3, Reserved capacity, and Settings. The main content area shows the 'Amazon DynamoDB' header with a tagline 'A fast and flexible NoSQL database service for any scale'. Below this, there's a 'Get started' section with a 'Create table' button and a 'Pricing' section. The bottom part of the image shows the 'Create table' page with the following details:

Create table

Table details [Info](#)

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
This will be used to identify your table.

Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key
The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

1 to 255 characters and case sensitive.

Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

- Keep everything default and choose Create table.

| | | |
|---------------------------|--------------------------|-----|
| Read capacity | 5 RCU | Yes |
| Write capacity | 5 WCU | Yes |
| Auto scaling | On | Yes |
| Local secondary indexes | - | No |
| Global secondary indexes | - | Yes |
| Encryption key management | Owned by Amazon DynamoDB | Yes |
| Table class | DynamoDB Standard | Yes |

Tags

Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.

No tags are associated with the resource.

[Add new tag](#)

You can add 50 more tags.

[Cancel](#) [Create table](#)

- The created table will appear in the console.

DynamoDB > Tables

Tables (1/1) [Info](#)

[Find tables by table name](#) [Any table tag](#) [Refresh](#) [Actions](#) [Delete](#) [Create table](#)

| <input checked="" type="checkbox"/> | Name | Status | Partition key | Sort key | Indexes | Read capacity mode | Total size |
|-------------------------------------|----------|--------|----------------|----------|---------|-------------------------------|------------|
| <input checked="" type="checkbox"/> | dynamodb | Active | RollNumber (S) | - | 0 | Provisioned with auto scaling | 0 bytes |

[Update settings](#) [Explore items](#) [Add tag to selection](#) [Remove tags from selection](#)

- Enter your “dynamodb” table by Clicking on it and choose create item option.

DynamoDB > Items > dynamodb

Tables (1)

Any table tag

Find tables by table name

< 1 > ⚙

dynamodb

dynamodb Autopreview View table details

► **Scan or query items**
Expand to query or scan items.

✔ Completed. Read capacity units consumed: 0.5

Items returned (0) ⌂ Actions Create item

< 1 > ⚙

No items
No items to display.

Create item

- Items represents the data you want to store in your DynamoDB.

DynamoDB > Items: dynamodb > Edit item

Create item Form JSON view

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Attributes Add new attribute

| Attribute name | Value | Type | |
|----------------------------|-------|--------|--------|
| RollNumber - Partition key | 1 | String | |
| Name | Value | String | Remove |
| NewValue | 0 | Number | Remove |

Cancel Create item

- You can run queries on your DB through the console to get the items you have stored.

DynamoDB > Items > dynamodb

Tables (1)

Any table tag

Find tables by table name

< 1 > ⚙

dynamodb

dynamodb Autopreview View table details

▼ **Scan or query items**

☐ Scan ☒ Query

Select a table or index Table - dynamodb

Select attribute projection All attributes

RollNumber (Partition key) 1

► Filters

Run Reset