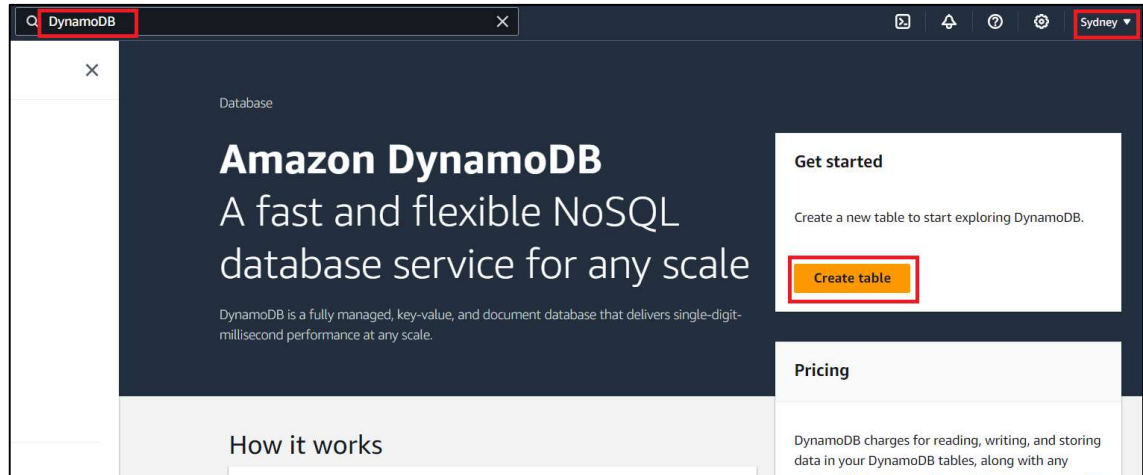


1) Create a DynamoDB Table



Create a players' table which is related to soccer, and is for an application which gives players' rating:

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.

1 to 255 characters and case sensitive.

Table settings

☐ Default settings

The fastest way to create your table. You can modify these settings now or after your table has been created.

☒ Customize settings

Use these advanced features to make DynamoDB work better for your needs.

Table class

Select table class to optimize your table's cost based on your workload requirements and data access patterns.

Choose table class

☒ DynamoDB Standard

The default general-purpose table class. Recommended for the vast majority of tables that store frequently accessed data, with throughput (reads and writes) as the dominant table cost.

☐ DynamoDB Standard-IA

Recommended for tables that store data that is infrequently accessed, with storage as the dominant table cost.

► Capacity calculator

Read/write capacity settings [Info](#)

Capacity mode

☒ Provisioned

Manage and optimize your costs by allocating read/write capacity in advance.

☐ On-demand

Simplify billing by paying for the actual reads and writes your application performs.

Read capacity

Auto scaling [Info](#)

Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On

☒ Off

Provisioned capacity units

5

Write capacity

Auto scaling [Info](#)

Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On

☒ Off

Provisioned capacity units

5

Secondary indexes [Info](#)

Delete

Create local index

Create global index

	Name	Type	Partition key	Sort key	Projected attributes
No indexes					
Use secondary indexes to perform queries on attributes that are not part of your table's primary key.					
<div>Create global index</div>					

New local secondary index

A local secondary index has the same partition key as its base table, but it has a different sort key. [Learn more](#)

Sort key

Rating

1 to 255 characters.

Data type

Number

Index name

Rating-index

Between 3 and 255 characters. Only A-Z, a-z, 0-9, underscore characters, hyphens, and periods allowed.

Attribute projections

A projection is the set of attributes that is copied from a table into a secondary index.

☒ All

All of the table attributes are projected into the index.

☐ Only keys

Only the index and primary keys are projected into the index.

☐ Include

All attributes described in "Only keys" and other non-key attributes that you specify.

Cancel

Create index

Secondary indexes [Info](#)

Delete

Create local index

Create global index

	Name	Type	Partition key	Sort key	Projected attributes
<input type="checkbox"/>	Rating-index	Local	-	Rating (Number)	All

Encryption at rest [Info](#)

All user data stored in Amazon DynamoDB is fully encrypted at rest. By default, Amazon DynamoDB manages the encryption key, and you are not charged any fee for using it.

Encryption key management



Owned by Amazon DynamoDB [Learn more](#)

The AWS KMS key is owned and managed by DynamoDB. You are not charged an additional fee for using this key.



AWS managed key [Learn more](#)

Key alias: aws/dynamodb. The key is stored in your account and is managed by AWS Key Management Service (AWS KMS). AWS KMS charges apply.



Stored in your account, and owned and managed by you [Learn more](#)

The key is stored in your account and is owned and managed by you. AWS KMS charges apply.

Deletion protection [Info](#)



Deletion protection is turned off by default. Deletion protection protects the table from being deleted unintentionally. You can turn on deletion protection now, and you can also turn it on after the table has been created.

☐ Turn on deletion protection

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 PlayerTable table was created successfully.

[DynamoDB](#) > Tables

Tables (1) [Info](#)



Actions ▾

Delete

Create table

Find tables by table name

Any tag key ▾

Any tag value ▾

< 1 > ⚙

<input type="checkbox"/>	Name ▲	Status	Partition key	Sort key	Indexes	Deletion protection	Read capacity mode	Write capacity mo...
<input type="checkbox"/>	PlayerTable	Active	Player Name (S)	Team (S)	1	Off	Provisioned (5)	Provisioned (5)

2) Write data to the table

Tables (1) [Info](#)

<input type="checkbox"/>	Name ▲	Status	Partition key	Sort key
<input type="checkbox"/>	PlayerTable	Active	Player Name (S)	Team (S)

[DynamoDB](#) > [Tables](#) > PlayerTable

Tables (1) ×

Any tag key ▼

Any tag value ▼

< 1 > ⚙

PlayerTable

PlayerTable

Refresh Actions Explore table items

[Overview](#) [Indexes](#) [Monitor](#) [Global tables](#) [Backups](#) [Exports and streams](#) [Ad](#) >

Protect your DynamoDB table from accidental writes and deletes

When you turn on point-in-time recovery (PITR), DynamoDB backs up your table data automatically so that you can restore to any given second in the preceding 35 days. Additional charges apply. [Learn more](#)

Edit PITR ×

PlayerTable

Autopreview View table details

▼ Scan or query items

☒ Scan ☐ Query

Select a table or index
Table - PlayerTable ▼

Select attribute projection
All attributes ▼

► Filters

Run Reset

Completed. Read capacity units consumed: 0.5

Items returned (0)

Refresh Actions Create item

< 1 > ⚙

No items
No items to display.
Create item

Create item

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](#)

Form JSON view

Attributes

Attribute name

Value

Type

Player Name - Partition key

Messi

String

Team - Sort key

ABC

String

Add new attribute

String

Number

Boolean

Binary

Null

String set

Number set

Binary set

List

Map

Create item

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](#)

Form JSON view

Attributes

Attribute name

Value

Type

Player Name - Partition key

Messi

String

Team - Sort key

ABC

String

Goals

100

Number

Remove

Cancel

Create item

Tables (1)

Any tag key

Any tag value

Find tables by table name

1

PlayerTable

PlayerTable

Autopreview View table details

▼ Scan or query items

Scan

Query

Select a table or index

Table - PlayerTable

Select attribute projection

All attributes

Filters

Run

Reset

Completed. Read capacity units consumed: 0.5

Items returned (1)

Refresh

Actions

Create item

1

Player Name (String)

Team (String)

Goals

Messi

ABC

100

3) Update data in the table

► Filters

Run

Reset

Completed. Read capacity units consumed: 0.5

Items returned (1/1)

↺

1

↻

⚙️

✖️

<input checked="" type="checkbox"/>	Player Name (String) ▼	Team (String) ▼	Goals ▼
<input checked="" type="checkbox"/>	Messi	ABC	100

Edit item

FormJSON 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
Player Name - Partition key	Messi	String
Team - Sort key	ABC	String
Goals	90	Number

Cancel

Save

Save and close

Completed. Read capacity units consumed: 0.5

Items returned (1/1)

↺

1

↻

⚙️

✖️

<input checked="" type="checkbox"/>	Player Name (String) ▼	Team (String) ▼	Goals ▼
<input checked="" type="checkbox"/>	Messi	ABC	90

4) Query the data in the table

The screenshot shows the Autopreview interface for the 'PlayerTable'. On the left, a sidebar lists 'Tables (1)' with 'PlayerTable' selected. The main panel is titled 'PlayerTable' and contains a 'Scan or query items' section. In this section, the 'Query' radio button is selected. Below it, 'Table - PlayerTable' is chosen for 'Select a table or index', and 'All attributes' is chosen for 'Select attribute projection'. The 'Player Name (Partition key)' is set to 'Messi'. The 'Team (Sort key)' is set to 'Equal to' with a value of 'ABC'. A 'Run' button is highlighted. Below the configuration, a status bar indicates 'Completed. Read capacity units consumed: 0.5'. The 'Items returned (2)' section shows a table with 2 items:

	Player Name (String)	Team (String)	Goals
<input type="checkbox"/>	John	DEF	80
<input type="checkbox"/>	Messi	ABC	90

Query output:

This screenshot shows the same Autopreview interface, but with a red box highlighting the 'Scan or query items' configuration area. The 'Run' button is highlighted. The status bar shows 'Completed. Read capacity units consumed: 0.5'. The 'Items returned (1)' section shows a table with 1 item:

	Player Name (String)	Team (String)	Goals
<input type="checkbox"/>	Messi	ABC	90

5) Create and Query Global Secondary Index

Create Global Secondary Index:

The screenshot illustrates the process of creating a Global Secondary Index (GSI) for a DynamoDB table named 'PlayerTable'. It is divided into three main sections:

Top Section: Query Configuration

- Navigation: `DynamoDB > Explore items > PlayerTable`
- Left Panel: 'Tables (1)' list with 'PlayerTable' selected.
- Main Panel: 'Scan or query items' configuration.
 - Mode: `Query` (selected over `Scan`).
 - Table/Index: `Table - PlayerTable`.
 - Projection: `All attributes`.
 - Partition Key: `Player Name (Partition key)` with value `Messi`.
 - Sort Key: `Team (Sort key)` with value `ABC` and `Sort descending` checkbox.

Middle Section: Table Overview

Name	Status	Partition key	Sort key	Indexes
PlayerTable	Active	Player Name (S)	Team (S)	1

Bottom Section: Index Management

- Tab: `Indexes` (selected over Overview, Monitor, Global tables, Backups, Exports and streams, Additional settings).
- Section: `Global secondary indexes (0)`.
- Buttons: `Delete`, `Create index`.
- Table Headers: `Name`, `Status`, `Partition key`, `Sort key`, `Read capacity`, `Write capacity`, `Projected attributes`, `Size`, `Item count`.
- Message: "No global secondary indexes. Global secondary indexes allow you to perform queries on attributes that are not part of the table's primary key."
- Button: `Create index`.

Create global secondary index [Info](#)

Global secondary indexes allow you to perform queries on attributes that are not part of a table's primary key. Note that global secondary index read and write capacity settings are separate from those of the table, and they will incur additional costs.

Index details [Info](#)

Partition key

Team

1 to 255 characters.

Data type

String

Sort key - *optional*

Enter the sort key name

1 to 255 characters.

Data type

String

Index name

Team-index

Between 3 and 255 characters. Only A-Z, a-z, 0-9, underscore characters, hyphens, and periods allowed.

► [Capacity calculator](#)

Index capacity [Info](#)

Read capacity

Read capacity settings

☒ Copy from base table

☐ Customize settings

Auto scaling [Info](#)

Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On

☒ Off

Provisioned capacity units

5

Write capacity

Read capacity settings

☒ Copy from base table

☐ Customize settings

Auto scaling [Info](#)

Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On

☒ Off

Provisioned capacity units

5

Attribute projections [Info](#)

Attribute projections

☒ All

All of the table attributes are projected into the index.

☐ Only keys

Only the index and primary keys are projected into the index.

☐ Include

All attributes described in "Only keys" and other non-key attributes that you specify.

 Creating global secondary indexes can take up to five minutes. You cannot create or delete indexes until this creation process has completed.

Cancel

Create index

Tables (1)

Any tag key

Any tag value

Find tables by table name

1

PlayerTable

PlayerTable

Autopreview

View table detail

▼ Scan or query items

Scan

Query

Select a table or index

Index - Team-index

Select attribute projection

Projected attributes

Team (Partition key)

DEF

Filters

Run

Reset

Completed. Read capacity units consumed: 0.5

Items returned (1)

Actions

Create item

1

Player Name (String)

Team (String)

Goals

John

DEF

80