

partiQL DynamoDB Table :

music_collection

Tables (1)

Any tag key

Any tag value

Find tables

music_collection

music_collection

Autopreview View table details

Scan or query items

Scan Query

Select a table or index

Table - music_collection

Select attribute projection

All attributes

Filters - optional

Run Reset

Completed - Items returned: 1 - Items scanned: 1 - Efficiency: 100% - RCUs consumed: 2

Table: music_collection - Items returned (1)

Scan started on June 29, 2025, 22:51:12

Actions Create item

	artist (String)	album	song
	thaman	daaku mah...	sarkaarur ra

Select (Read) :

Operations performed using the PartiQL editor might incur charges. [Learn more](#)

Tables (1)

Find tables

music_collection

Query 1

```
1 select * from "music_collection"
```

Run Clear

Table view JSON view

Completed

Started on 6/29/2025, 10:48:14 PM

Elapsed time 935ms

Items returned (1)

Find items

album	artist	song
daaku maharaj	thaman	sarkaarur ra

Download results to CSV

Insert (Create):

Tables (1)

Find tables

Query 1

```
1 INSERT INTO "music_collection" VALUE {'artist': 'AR Rahman', 'album': 'Rockstar', 'song': 'Nadaan Parindey'};
2
```

Duplicate primary key :

Operations performed using the PartiQL editor might incur charges. [Learn more](#)

Tables (1)

< 1 >

music_collection

Query 1

+

1 INSERT INTO "music_collection" VALUE {'artist': 'thaman', 'album': 'Daaku Maharaaj', 'song': 'Sarkaar Ra'};

Run Clear

Table view JSON view

Failed

Started on 6/29/2025, 11:00:36 PM

Elapsed time 301ms

An error occurred during the execution of the command.
DuplicateItemException: Duplicate primary key exists in table

Delete :

Query 1

+

1 DELETE FROM "music_collection" WHERE "artist" = 'Ilaiyaraaja'

Update :

might incur charges. [Learn more](#)

Query 1

+

1 UPDATE "music_collection"
2 SET "album" = 'Updated Album Name'
3 WHERE "artist" = 'Thaman';

Thaman	Updated Album Name	Sarkaar Ra
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Update multiple fields based condition :

Query 1

+

1 UPDATE "music_collection"
2 SET "album" = 'Pushpa2', "song" = 'Revised Title'
3 WHERE "artist" = 'Devi Sri Prasad';

Devi Sri Prasad	Pushpa2	Revised Title
-----------------	---------	---------------

Update based on multiple conditions :

✓

Query 1

+

```
1 UPDATE "music_collection"
2 SET "album" = 'Pushpa3 The Rampage'
3 WHERE "song" = 'Revised Title'
4 AND "artist" = 'Devi Sri Prasad';
```

Devi Sri Prasad

Pushpa3 The Rampage

Revised Title

Scan :

▼ Scan or query items

Scan

Query

Select a table or index

Table - music_collection

Select attribute projection

All attributes

► Filters - optional

Run

Reset

✓ Completed · Items returned: 4 · Items scanned: 4 · Efficiency: 100% · RCUs consumed: 2

Table: music_collection - Items returned (4)

Scan started on June 29, 2025, 23:33:39

< 1 >

⚙

<input type="checkbox"/>	artist (String)	album	song
<input type="checkbox"/>	Harris Jayaraj	Vaaranam Aayiram	Adiye Kolluthey
<input type="checkbox"/>	Devi Sri Prasad	Pushpa3 The Rampage	Revised Title
<input type="checkbox"/>	Thaman	Updated Album Name	Sarkaar Ra
<input type="checkbox"/>	AR Rahman	Rockstar	Nadaan Parindey

Query :

music_collection

Autopreview

View table details

▼ Scan or query items

Scan

Query

Select a table or index

Table - music_collection

Select attribute projection

All attributes

Partition key: artist

Thaman

► Filters - optional

Run

Reset

✓ Completed · Items returned: 1 · Items scanned: 1 · Efficiency: 100% · RCUs consumed: 0.5

Table: music_collection - Items returned (1)

Query started on June 29, 2025, 23:34:22

< 1 >

⚙

<input type="checkbox"/>	artist (String)	album	song
<input type="checkbox"/>	Thaman	Updated Album Name	Sarkaar Ra

In PartiQL, **Query** and **Scan** are two operations used to retrieve data, but they are very different in efficiency and purpose:

Query

- Purpose: Retrieve specific items using the partition key (and optional sort key)
- Efficient: Looks up items by index, so it's fast and cost-effective

Example

```
SELECT * FROM "music_collection" WHERE "artist" = 'Ilaiyaraaja'
```

This is a Query operation (since **artist** is the partition key).

✓ Best used when:

- You know the partition key value
- Your access patterns are predictable

Scan

- Purpose: Reads every item in the table (full table scan)
- Slower and costlier: Especially with large tables.

Example:

```
SELECT * FROM "music_collection"
```

This is a Scan operation — reads all items, no filters

✗ Avoid for:

- Large tables with tight latency or cost budgets.

VS Summary		
Feature	Query	Scan
Speed	Fast (uses index)	Slow (reads entire table)
Cost	Low (only reads matching items)	High (reads all items)
Filter Type	Requires partition key	No key required
Use Case	Targeted reads	Ad-hoc or exploratory reads

You cannot create a **DynamoDB** table using **PartiQL**. PartiQL in AWS **only supports data manipulation (CRUD)**, not schema definition for DynamoDB (no create, alter, drop)

Examples :

```
SELECT * FROM "music_collection"
```

```
WHERE "artist" = 'AR Rahman' AND "song" >= 'N'
```

```
SELECT * FROM "music_collection"
```

```
WHERE "artist" = 'AR Rahman' AND "song" BETWEEN 'A' AND 'Z'
```

```
SELECT * FROM "music_collection"
```

```
WHERE "artist" = 'AR Rahman' AND BEGINS_WITH("song", 'Nadaan')
```

Same output for above three :

album	artist	song
Rockstar	AR Rahman	Nadaan Parindey