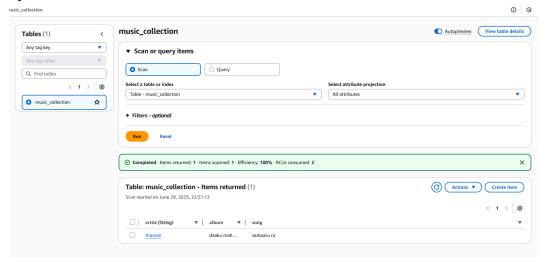
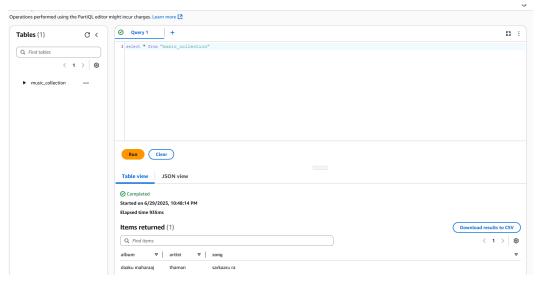
# partiQL

# DynamoDB Table:



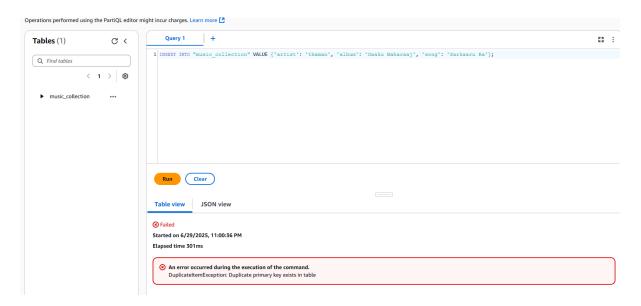
# Select (Read):



### Insert (Create):



# Duplicate primary key:

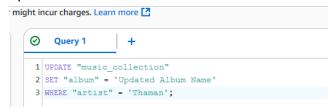


#### Delete:

```
Query 1 +

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

### Update:





# Update multiple fields based condition :

```
Query 1 +

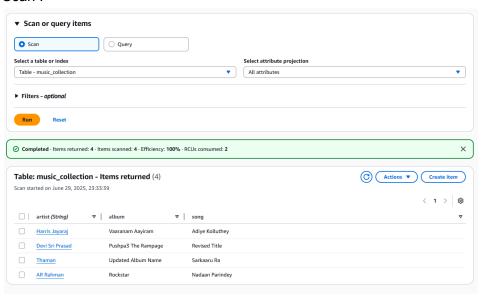
1 UPDATE "music_collection"
2 SET "album" = 'Pushpa2', "song" = 'Revised Title'
3 WHERE "artist" = 'Devi Sri Prasad';

Devi Sri Prasad  Pushpa2  Revised Title
```

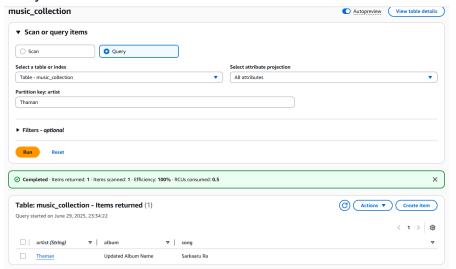
# Update based on multiple conditions:



#### Scan:



### Query:



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).

# Mest 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.

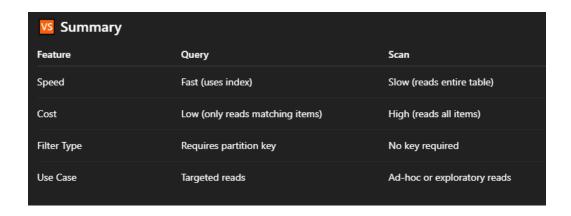
#### **Example:**

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

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

# X Avoid for:

Large tables with tight latency or cost budgets.



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