

# Dynamo DB

Dynamo DB where would you use it and how it works.

## Dynamo DB

Is a fast and flexible NoSQL DB for 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.

### Dynamo DB Characteristics

1. Stored on SSD
2. Spread Across 3 geographically distinct data centers
3. Eventual read consistency by default
4. Strongly consistent reads

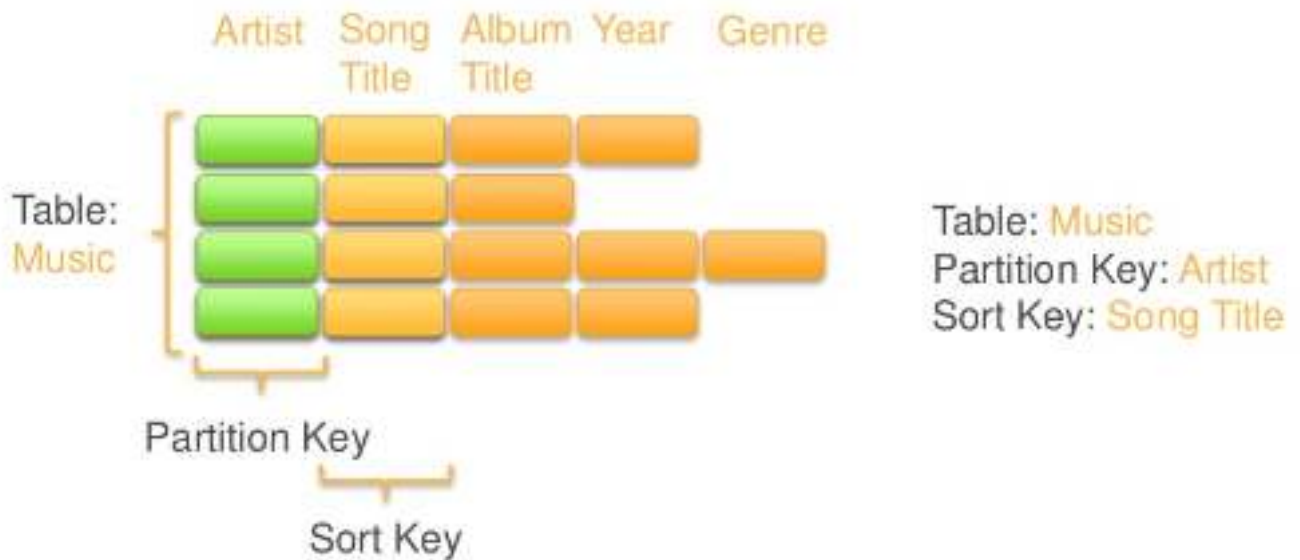
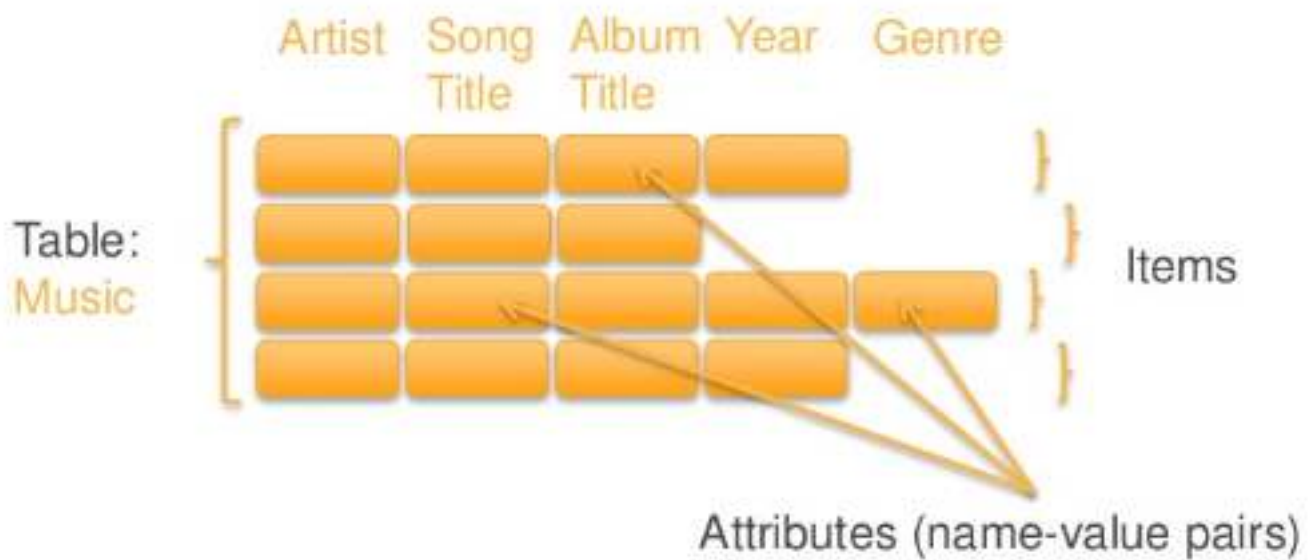
**Eventual Consistent Reads** : Consistency across all copies of data is usually reached within a second. Performing a read after a short duration should return updated data.

**Strongly Consistent Reads**: A strongly consistent read returns as a result that reflects all writes that received a successful response prior to that read.

Dynamo DS pricing:

1. Write throughput \$0.0065 per hour for every 10 units.
2. Read throughput \$0.0065 per hour for every 50 units.
3. Storage cost of \$0.25 GB per month

## DynamoDB Data Model



(DynamoDB maintains a sorted index for both keys)

## Simple DynamoDB Architecture

