Dynamo DB is a

Serverless

Cloud

Nosql

Fast

Flexible

Cost effective

Highly scalable

Fault tolerant

Secure

We cannot define a table in dynamo DB without a primary key

**Naming conventions:**

Prefix table name to create namespaces like (not manditory)

test.project, test\_project, test.users, test\_users

You cannot have two tables with same name

**Data Types:**

Scalar type (exactly one value)

* String
* Numbers
* Boolean
* Binary
* Null

Set type (Multiple scalar values)

* Unordered collection of strings numbers or binary
* Non-empty
* No duplicates and all values must be of same scalar type

Document type (complex structure with nested attributes)

* Nested upto 32 deep level
* Lists and maps are allowed (non – empty)

**Partitions :**

DynamoDB makes partitions based on WCUs and RCUs and rounds of the partition calculation to next integer.

Splits throughput among available partitions evenly

To create a table we need a partition key(PK) and sort key(SK) should be declared first

We can perform create, insert, update, delete tables.

We can also query data as per our requirement.

**Python SDK for DynamoDB (**boto3**)**

# Get the service resource.

dynamodb **=** boto3**.**resource('dynamodb')