

Cloud9 terminal:

Partition key (required) + Sort key (optional)

1. List table and add data

- `aws dynamodb list-tables`
- `aws dynamodb put-item --table-name Music --item file://song1.json`

```
song1.json:
{
  "Artist" : {"S" : "David Bowie"},
  "SongTitle" : {"S" : "Changes"},
  "AlbumTitle" : {"S" : "Hunky Dory"},
  "Genre" : {"S" : "Rock"}
}
```

DynamoDB console:

Click on the 'Items' tab and refresh the page to see the data

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1. Query

- `aws dynamodb query --table-name Music --key-condition-expression "Artist = :v1" --expression-attribute-values file://values1.json`

```
values1.json:
{
  ":v1" : {"S" : "David Bowie"}
}
```

- `aws dynamodb query --table-name Music --key-condition-expression "Artist = :v1 AND SongTitle = :v2" --expression-attribute-values file://values2.json`

```
values2.json:
{
  ":v1" : {"S" : "David Bowie"},
  ":v2" : {"S" : "Heros"}
}
```

2. Delete

- `aws dynamodb delete-item --table-name Music --key file://keysToDelete.json`

```
keysToDelete.json
{
  "Artist" : {"S" : "David Bowie"},
  "SongTitle" : {"S" : "Changes"}
}
```

3. Scan

pull back all data

- `aws dynamodb scan --table-name Music`

4. Filter with scan

go through every item of the table

- `aws dynamodb query --table-name Music --key-condition-expression "Artist = :v1" --filter-expression "Released = :v2" --expression-attribute-values file://filterValues1.json`

```
filterValues1.json
{
  ":v1" : {"S" : "Bryan Adams"},
  ":v2" : {"S" : "1998"}
}
```

- `aws dynamodb scan --table-name Music --filter-expression "SongTitle = :v1" --expression-attribute-values file://filterValues2.json`

```
filterValues2.json
{
  ":v1" : {"S" : "Heroes"}
}
```

5. Secondary index

- Local secondary index: allows to pick alternate sort key
Global secondary index: allows to create alternate partition and sort key
- **Can't query non-key attribute without a scan**