**Domain: Database Services**

**Topic: DynamoDB**

**Task: Create DynamoDB table for music store**

**Explanation of the Solution**

* [*Create DynamoDB table*](https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/WorkingWithTables.Basics.html#WorkingWithTables.Basics.CreateTable)
* [*Write Data to table*](https://docs.aws.amazon.com/AmazonECR/latest/userguide/docker-push-ecr-image.html)

Preprequsites:

AWS CLI set up

**Implementation Details**

*DynamoDB table creation:*

1. *Go to the****Tables****tab under****DynamoDB****section and click at****Create Table****.*
2. *For****Table name****, enter a unique name for your table – music-store-{last\_name}. Set* ***Partition key*** *as Artist. Set* ***Sort key*** *as SongTitle Keep other settings as default and click****Create table****button.*

Note: Due to AWS changing DynamoDB UI , we will stick with using AWS CLI commands

*Create items in table:*

1. In the navigation pane on the left side of the console, choose **Tables**.
2. In the table list, choose the **<Your table>** table.
3. Choose the **Items** tab for the **<Your table>** table.
4. On the **Items** tab, choose **Create item**.
5. Choose the plus sign (+) symbol next to **SongTitle**.
6. Choose Append, and then choose Number. Name the field **Awards**.
7. Repeat this process to create an **AlbumTitle** of type String.
8. Choose the following values for your item:
   1. For **Artist**, enter **No One You Know** as the value.
   2. For **SongTitle**, enter **Call Me Today**.
   3. For **AlbumTitle**, enter **Somewhat Famous**.
   4. For **Awards**, enter **1**.
   5. Choose Save.
9. Repeat this process and create another item with the following values:
   1. For **Artist**, enter **Acme Band**.
   2. For **SongTitle** enter **Happy Day**.
   3. For **AlbumTitle**, enter **Songs About Life**.
   4. For **Awards**, enter **10**.

*Read items in table:*

1. In the navigation pane on the left side of the console, choose **Tables**.
2. Choose the **<Your table>** table from the table list.
3. Choose the Items tab for the **<Your table>** table.
4. On the Items tab, view the list of items stored in the table, sorted by **Artist** and **SongTitle**.
5. The first item in the list is the one with the **Artist** Acme Band and the **SongTitle** Happy Day.

*Update items in table:*

1. In the navigation pane on the left side of the console, choose **Tables**.
2. Choose the **<Your table>** table from the table list.
3. Choose the Items tab for the **<Your table>** table.
4. Choose the item whose **Artist** value is Acme Band and **SongTitle** value is Happy Day.
5. Update the **AlbumTitle** value to Updated Album Title, and then choose **Save**.

*Query items in table:*

1. In the navigation pane on the left side of the console, choose **Tables**.
2. Choose the **<Your table>** table from the table list.
3. Choose the **Items** tab for the **<Your table>** table.
4. In the drop-down list, choose **Query**.
5. For **Partition key**, enter Acme Band, and then choose **Start search**.

*Advanced task:*

*Try doing the same steps, but with AWS CLI(you can create table in UI).*

*The commands you would need:*

* aws dynamodb create-table
* aws dynamodb put-item
* aws dynamodb get-item
* aws dynamodb update-item
* aws dynamodb query

**Tearing down**

*Delete DynamoDB table*