Setting up DynamoDB locally (Linux)

• prerequisite: Java must be installed on your machine.

If you don't have Java installed on your machine you will need to run following commands to install java.

```
$ sudo apt update
$ sudo apt install default-jdk
update-alternatives --config java
$ sudo gedit /etc/environment
```

Last command will open the text file. Now, copy the following code and paste into it then save the file.

```
JAVA_HOME="/usr/lib/jvm/java-11-openjdk-amd64/bin/java" PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:$ JAVA_HOME/bin"
```

1. Download and install DynamoDB server:

```
$ mkdir dynamodb
$ cd dynamodb
$ wget http://dynamodb-local.s3-website-us-west-
2.amazonaws.com/dynamodb_local_latest.tar.gz
$ tar xzf dynamodb_local_latest.tar.gz
```

2. <u>Start DynamoDB Server</u>: In the command prompt window, change the working directory to the **dynamoDB** directory and issue following command:

```
$ java -Djava.library.path=./DynamoDBLocal_lib -jar
DynamoDBLocal.jar -sharedDb
```

<u>Do not close this console window. Closing this window will shut down the dynamoDB server.</u>

3. Download and install AWS CLI (following instructions should work): taken from: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-linux-install

```
$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64-
2.0.30.zip" -o "awscliv2.zip"
$ unzip awscliv2.zip
$ sudo ./aws/install
```

4. Configure DynamoDB. Open another command window and submit command

```
$ aws configure
```

```
AWS Access Key ID [None]: 1234
AWS Secret Access Key [None]: 1234
Default region name [None]: us-west-2
Default output format [None]: json
```

It prompts for some inputs. Give some inputs. May preserve these inputs for some later use; we may never need these values, though.

5. Test if set up is done correctly:

[Create a work directory, say home/dynamodb-work. Move to this directory before doing following tasks]

a. Create Table (named as ProductCatalog) as following:

If everything is successful, you should see the following as a response.

6. Describe the Table

```
$ aws dynamodb describe-table \
    --table-name ProductCatalog \
    --endpoint-url http://localhost:8000
```

7. You can also check list of tables in your AmazonDB database as following:

```
$ aws dynamodb list-tables --endpoint-url http://localhost:8000
```

Response should be as following.

```
{
    "TableNames": [
        " ProductCatalog"
    ]
}
```

8. Done!