. Download NoSql Workbench. And run it

. install aws CLI (will be used later)

. Toggle DDB local to run DynamoDB locally.

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. Navigate to Amazon DynamoDB home screen using left side panel

. 2 options:   
 \* Create new data model  
 \* Import data model

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. After creating or impoting data model, open it and screen will transition to data modeler

. Here you will be able to either delete tables or edit the tables and their associated data types

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. when finished hit Visualize data model, can be found under the tables list  
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. there it will show a visual of table and give the option of generating sample data. We will not be doing that.

. hit commit to Amazon DynamoDB

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. then you will be asked to either use saved connection or you can create a new connection

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. When done move to the operation builder tap, and find the connection you made

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. hit the 3 dot to edit credentials

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Description automatically generated. get the access key and password (create password if needed)

. afte that open the connection and you get a screen similar to the following ( if no data have been inserted tables will be empty)

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. open CMD/ terminal and use the following aws command to configure credentials and list tables created  
  
AWS\_DEFAULT\_REGION=localhost AWS\_ACCESS\_KEY\_ID=<your\_connection\_ID> AWS\_SECRET\_ACCESS\_KEY=<your\_connection\_Key> aws dynamodb list-tables --endpoint-url <http://localhost:8000>

(this is a one time configuration after that you can just use the following to list tables)  
aws dynamodb list-tables --endpoint-url http://localhost:8000

. to insert data you’ll need the following:

* Python
* Python boto3 library  
  pip3 install boto3

. go to the folder that holds your excel data table (can also be csv but python script needs to be modified)

. save the following python script:

**import** os

**import** boto3

**import** json

**import** pandas **as** pd

**def** insert\_data\_into\_dynamodb**(**file\_path**,** table\_name**):**

# Read data from Excel to DataFrame

excel\_data **=** pd**.**read\_excel**(**file\_path**)**

# Convert DataFrame to JSON

json\_data **=** json**.**loads**(**excel\_data**.**to\_json**(**orient**=**'records'**,** date\_format**=**'iso'**))**

# Insert data into DynamoDB

**for** item **in** json\_data**:**

table**.**put\_item**(**Item**=**item**)**

**print(**f"Data from {file\_path} inserted into DynamoDB table {table\_name}"**)**

# Initialize DynamoDB client

dynamodb **=** boto3**.**resource**(**'dynamodb'**,** endpoint\_url**=**'http://localhost:8000'**)**

# Iterate through Excel files in the folder

# make sure path points to folder that holds the excel tables

folder\_path **=** os**.**getcwd**()**

**for** file\_name **in** os**.**listdir**(**folder\_path**):**

**if** file\_name**.**endswith**(**'.xlsx'**):**

# Construct full file path

file\_path **=** os**.**path**.**join**(**folder\_path**,** file\_name**)**

# Extract table name from the file name (excluding extension)

table\_name **=** os**.**path**.**splitext**(**file\_name**)[**0**]**

# Access or create DynamoDB table

table **=** dynamodb**.**Table**(**table\_name**)**

# Insert data into DynamoDB

insert\_data\_into\_dynamodb**(**file\_path**,** table\_name**)**

**print(**"\nAll Excel files inserted into DynamoDB tables."**)**

. run cmd/ terminal in the path where all data table are saved

. run the python script

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. return to NoSql workbench and hit refresh in the operation builder tab all data should appear

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