**Question#1:**

Create a table **Movies** in DynamoDB using Amazon Web service console. The primary key for the table is composed of the following attributes:

* year – The partition key. The AttributeType is number.
* title – The sort key. The AttributeType is string.

Use default setting for this exercise.

**Question#2:**

With the help of AWS Lambda function, insert the following item into DynamoDB **Movies** table. Use python programming.

*{ year: 2015,*

*title: "The Big New Movie",*

*info: {*

*plot: "Nothing happens at all.",*

*rating: 0*

*}*

*}*

You need to take care of all permissions required for Lambda to access DynamoDB using AWS IAM.

**Question#3:**

Now place the attached JSON file (moviedata.json) file in S3 bucket. Write a Python program and execute the code using AWS Lambda function to read the data from S3 and load into DynamoDB **Movies** table.



You can either use the any existing role for Lambda or create a new role for your lambda function in order to access DynamoDB table and S3 bucket using AWS IAM.

**Question#4:**

Now you receive few more details about the movie “The Big New Movie”. As a developer, you have to update the existing record in **Movie** table with new details. New details are as follows –

* Plot -> “In Manhattan, a bike messenger picks up an envelope that attracts the interest of a dirty cop, who pursues the cyclist throughout the city.”
* Rating -> 6.5
* Actors are "Joseph Gordon-Levitt", "Michael Shannon" and "Dania Ramirez"

Please update the existing record.

**Question#5:**

As per previous update, movie “*The Big New Movie*” should have three actors but you thought you have entered one actor name wrongly at the first position of “Actors” array. You have remove that actor name.

Write a python program, which will be executed in AWS Lambda environment to remove the wrong entry from **Actors** list of that particular item.

**Question#6:**

Write a program to get the item from DynamoDB table **Movies** having following primary key combination:

Year = 1958

title = ‘Vertigo’

Only retrieve title and plot of this item (movie details) from table.

**Question#7:**

Write a program to query all movies from **Movies** table, which are released in the year of 2014, and Title starts with ‘M’.

Retrieve only year, title, director name, actors and release date of the movies from table.

**Question#8:**

Write a program to scan the table and get the movie list which were released between year 2000 and 2004.

**Question#9:**

Write a program to delete the record of *The Big New Movie* from **Movies** table if the movie has rating below 7.