



CS 470 Module Five Assignment One Guidelines and Rubric

Overview

In this module, you will create a database to replace the Mongo database used in Modules One and Two. While DynamoDB is a NoSQL database like Mongo, it does have some differences. You can still store JSON data, but DynamoDB is a different flavor of NoSQL and has some differences in its approach. We will not cover all of them in this module. We will create a DynamoDB database, then create the table which provides structure to the database. DynamoDB is geared towards the model of "single-table design". The concept is that instead of decomposing your data into different entities that are normalized, you store the complete entity in a single table.

Prompt

In the Angular application, there are two key data elements. You will replicate those models as used in Mongo in DynamoDB and you will not redesign the models. This will allow you to repoint the existing application to use DynamoDB without any code changes in the Angular application, to create a database using the single-table design concept. The table should be partitioned using a partition key. A correctly created database with the appropriate structure will be able to perform the CRUD functions. Use the [CS 470 Module Five Assignment One Guide](#) to complete the tasks and produce your deliverables.

Specifically, you must address the following rubric criteria:

- Create DynamoDB tables.
- Create items and attributes for the table; populate your Question and Answer tables.
- TableScan

What to Submit

Submit the following screenshots or files to Brightspace:

- Screenshot of the overview tab for the Question table, or the CSV file of the items from the Question table
- Screenshot of the overview tab for the Answer table, or the CSV file of the items from the Answer table

Module Five Assignment One Rubric

Criteria	Proficient (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
Create the Table	Creates and names the listed table, with the appropriate partition key	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include misspellings that may cause errors or the wrong partition key	Does not attempt criterion	35
Populate Tables	Correctly adds five items with the appropriate attributes, and adjusts the JSON	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include misconfiguring JSON records or changing questions and ID fields	Does not attempt criterion	50
Table Scan	Performs a table scan; the results show questions and answers on each of the tables, 4-5 records are added to the database for each table	N/A	Does not attempt criterion	15
Total:				100%