CS 470 Module Five Assignment Two Guidelines and Rubric

Overview

In this assignment, you will create Lambdas to execute the code to access the database and perform all of the CRUD functions.

Prompt

Create and execute the Lambdas to access the database by following the CS 470 Module Five Assignment Two Guide along with the Module Five Source Code ZIP file.

Specifically, you must address the following rubric criteria:

- Create five Lambdas:
  - TableScan
  - GetSingleRecord
  - UpsertQuestion
  - UpsertAnswer
  - DeleteRecord
- Create a table-level security policy allowing Lambdas to access the tables before you test.
- Create a Lambda-level security policy attaching to each of the Lambdas you have created.
- Test to prove that the Lambdas work against each database for each function.

What to Submit

- Submit the following six screenshots to Brightspace to show the successful completion of your work.
  1. Three test runs for Part One: QuestionWithoutFilter, QuestionWithFilter, and AnswerWithoutFilter
  2. Two test runs for Part Two: TestGetQuestion and TestGetAnswer
  3. The directory structure and index.js file in the Lambda window for UpsertQuestion and UpsertAnswer (See Part Three, Step 8 in the guide.)
  4. Two test runs for Part Three: TestInsertQuestion and TestInsertAnswer
  5. Two test runs for Part Four: TestDeleteQuestion and TestDeleteAnswer
  6. JSON policy:
     a. Click on the **Permissions** tab on any of the Lambdas.
     b. Click the role name.
     c. Click the policy name.
     d. Take the screenshot.

Module Five Assignment Two Rubric

Criteria	Proficient (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
Lambdas	Creates five Lambdas: TableScan, GetSingleRecord, UpsertQuestion, UpsertAnswer, and DeleteRecord	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include syntactical errors or problems with the database created in part one, or uploading the wrong Lambdas or ZIP file	Does not attempt criterion	25
Table-Level Security Policy	Creates a policy that allows Lambda to access both tables in the database, specifically only the six functions for the two tables	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include missing one of the six functions, adding other functions, or syntax errors inside the JSON	Does not attempt criterion	25
Lambda-Level Security	Attaches the new custom security policy to	Shows progress toward proficiency, but	Does not attempt criterion	25

Policy	each Lambda	with errors or omissions; areas for improvement may include forgetting to assign to all given Lambdas		
Testing	Provides evidence of eleven tests that prove the Lambdas work against each database table for a particular function	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include no new questions or new answers	Does not attempt criterion	25
			Total:	100%