Data Access - Programming

Course ID #: 7000-827-ZZ-Z
Classroom Hours: 16
Lab Hours: 10

Course Content

Course Description:

In this course, you will weigh the pros and cons of cloud computing to make effective decisions and meet IT challenges. Students will learn how to connect to the SQL Server database and execute a simple query, include a search condition in a simple query, use various functions to perform calculations on data, organize data, retrieve data by combining information from multiple tables & present query results in a report. This course also covers advanced techniques for querying a database including how to: code subqueries to generate query output, manipulate table data by inserting, updating and deleting records in a table, create a simple table, create tables with constraints, modify the table structure, and delete tables, create views, manipulate data through views, modify the view structure and drop views & index data.

Course Objectives:

Upon successful completion of this course students will be able to:
- Learn the fundamental concepts of cloud computing
- Learn the business aspects and impact of cloud computing
- Differentiate the types of cloud solutions and the adoption measures needed for each
- Identify the technical challenges and the mitigation measures involved in cloud computing
- Identify the steps to successfully adopt cloud services
- Identify the basic concepts of ITIL and describe how the ITIL framework is useful in the implementation of cloud computing in an organization
- Identify the possible risks involved in cloud computing and the risk mitigation measures
- Identify the potential cost considerations for the implementation of cloud and its strategic benefits
- And so much more!

Prerequisites:

- At least six months of experience in an IT environment, with direct involvement in IT-related tasks, responsibilities and/or decision-making
- Introduction to Network Design and Management (recommended)
- Windows Level 1

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Topics:

Lesson 1: CompTIA Cloud Essentials
- Introduction to Cloud Computing
- Business Value of Cloud Computing
- Technical Perspectives of Cloud Computing
- Technical Challenges of Cloud Computing
- Steps to Successful Adoption of Cloud Services
- ITIL and Cloud Computing
- Identifying Risks and Consequences

Lesson 2: SQL Level 1
- Executing a Simple Query
- Performing a Conditional Search
- Working with Functions
- Organizing Data
- Retrieving Data from Multiple Tables
- Presenting Query Results

Lesson 3: SQL Level 2
- Advanced Querying Using Subqueries
- Manipulating Table Data
- Manipulating the Table Structure
- Working with Views
- Indexing Data

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