Database Management

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➡️ ## Course Objective

➢ To understand the implementation, design principles and goals of a Database Management in creating business intelligence specialization. In this course, you will create relational databases, write SQL statements to extract information to satisfy business reporting requests, create entity relationship diagrams (ERDs) to design databases, and analyze table designs for excessive redundancy. As you develop these skills, you will use either Oracle or MySQL to execute SQL statements and a database diagramming tool such as the ER Assistant to create ERDs

➡️ ## Target Audience

➢ Security personnel who are currently tasked with assessing the technical risks of cloud computing
➢ Network and systems administrators who currently manage private clouds or need to leverage hybrid and/or public cloud services
➢ Technical auditors and consultants who need to gain a deeper understanding of cloud computing and security concerns
➢ Security and IT managers who need to understand the risks of cloud computing and advise business management of the risks and various approaches involved

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Course Outline

- ➢ **Day1**
- ➢ Introduction to Databases and DBMSs
- ➢ We'll launch into an exploration of databases and database technology and their impact on organizations in Module 2. We'll investigate database characteristics, database technology features, including non-procedural access, two key processing environments, and an evolution of the database software industry. This short informational module will ensure that we all have the same background and context, which is critical for success in the later modules that emphasize details and hands-on skills.

- ➢ **Day 2**
- ➢ Relational Data Model and the CREATE TABLE Statement
- ➢ Now that you have the informational context for database features and environments, you'll start building! In this module, you'll learn relational data model terminology, integrity rules, and the CREATE TABLE statement. You'll apply what you've learned in practice and graded problems using a database management system (DBMS), either Oracle or MySQL, creating tables using the SQL CREATE TABLE statement and populating your tables using given SQL INSERT statements.

➢ **Day 3**

➢ Basic Query Formulation with SQL
➢ This module is all about acquiring query formulation skills. Now that you know the relational data model and have basic skills with the CREATE TABLE statement, we can cover basic syntax of the SQL SELECT statement and the join operator for combining tables. SELECT statement examples are presented for single table conditions, join operations, and grouping operations. You'll practice writing simple SELECT statements using the tables that you created in the assignment for module 3.

➢ **Day 4**

➢ Notation for Entity Relationship Diagrams
➢ Module 6 represents another shift in your learning. In previous modules, you've created and populated tables and developed query formulation skills using the SQL SELECT statement. Now you'll start to develop skills that allow you to create a database design to support business requirements. You'll learn basic notation used in entity relationship diagrams (ERDs), a graphical notation for data modeling. You will create simple ERDs using basic diagram symbols and relationship variations to start developing your data modeling skills.

➢ **Day 5**

➢ Developing Business Data Models
➢ In Module 8, you'll use your ERD notation skills and your ability to avoid diagram errors to develop ERDs that satisfy specific business data requirements. You will learn and practice powerful problem-solving skills as you analyze narrative statements and transformations to generate alternative ERDs.

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