Database Management Essentials

Module 1: Course Introduction

Lesson 1: Course Objectives

Lesson Objectives

- Gain context for this course in the specialization

- Understand targeted learners for this course

- Understand broad course objectives and prerequisite background

Data Warehousing for Business Intelligence

Course 1 → Database management essentials

Course 2 → Data warehouse design and data integration

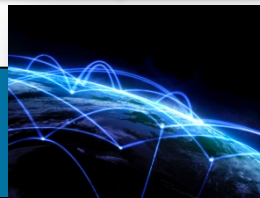Course 3 → Relational database support for data warehouses

Course 4 → Business intelligence concepts, tools, and applications

Course 5 → Capstone course with a comprehensive case study
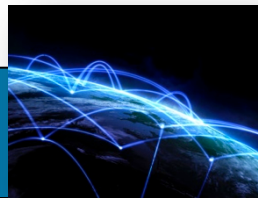
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Targeted Learners

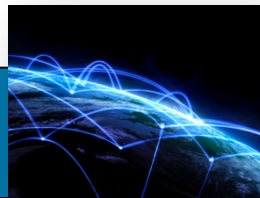University students

IT professionals

Project management

Business analysts

Broad Course Objectives

- Provide a foundation of database management background for a business intelligence career

- Explain characteristics of databases and features of database management systems

- Create tables and formulate business queries using SQL

- Create entity relationship diagrams (ERDs) to represent business requirements

- Convert an ERD to a table design

- Analyze table designs for unwanted redundancy

- Reflect on guidelines and goals for query formulation, redundancy elimination, and data modeling

Prerequisite Background

- Not an introductory computing course
- Basic computing concepts and personal computing applications
- No computer programming but detailed concepts and skills

Summary

- Basic course on database management concepts and skills

- Develop knowledge and skills for query formulation and database development

- Prerequisite background for other courses in the data architectures track

- Career opportunities for IT professionals as well as business and computer science students

Information Systems Program