

Understanding Data Integrity

Duration: 1 Day Course Code: GK840039

Overview:

Gain an understanding of Data Integrity and how to apply it within your organization.

In this course we will cover the foundations and advanced concepts surrounding the integrity of data in modern management systems. In today's digital age, the importance of data integrity cannot be overstated. As data becomes increasingly central to business operations, analytics, and decision-making processes, ensuring its accuracy, consistency, and reliability is paramount.

Data integrity refers to the accuracy and consistency of data stored in a database, warehouse, or any other repository. It is a critical aspect of data management that ensures that data is trustworthy and reliable throughout its lifecycle. This course aims to provide a comprehensive understanding of data integrity, its principles, and its application across various industries.

Target Audience:

This course is meant for someone with 1+ years experience.

- Data Professionals
 - Database administrators, System Administrators
 - IT Managers
 - Business Intelligence Professionals
 - QA Analysts
 - Business Leaders
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Objectives:

- Identify the core concepts of data integrity and its significance in data management.
 - Describe the different types of data integrity
 - Analyze common threats to data integrity and their potential impacts on business operations
 - Apply data integrity principles in real-world scenarios to ensure accuracy, consistency, and reliability of data.
 - Evaluate the effectiveness of different data integrity strategies in various contexts.
 - Design data integrity policies and procedures tailored to organizational needs.
 - Assess the effectiveness of data integrity measures through audits and monitoring.
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Prerequisites:

- Foundational knowledge of data management concepts, including data storage, retrieval, and basic database operations
 - A basic understanding of how databases work
 - An understanding of basic data security practices, such as data access controls, encryption, and data privacy regulations, is beneficial
 - Participants should be comfortable working with IT systems and have a basic understanding of technical concepts related to data and databases.
 - Critical thinking and problem-solving skills are important, as the course will involve identifying and addressing potential data integrity issues.
 - Participants should be ready to engage in hands-on exercises and practical labs that involve working with data and implementing data integrity measures
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Content:

Introduction to Data Integrity

- Identify the importance of data integrity in modern data management systems.
- Data Integrity in the age of AI
- Principles of Data Integrity
- Data Integrity vs. Data Security vs. Data Quality
- Data Integrity in various industries

Types of Data Integrity

- Physical Integrity
- Logical Integrity

Threats/Risks to Data Integrity

- Common threats to Data Integrity

Ensuring Data Integrity

- Best Practices to Maintain Data Integrity

Advanced Data Integrity Concepts

- Advanced Data Integrity Strategies

Designing Data Management Strategies in an Organization for Data Integrity

- Effective Data Governance policies
- ISO Standards for Data Quality and Governance

Monitoring and Auditing Data Integrity

- Techniques for monitoring and auditing Data Integrity

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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