Understanding Data Integrity Training

Duration: **1 Day**

BILGINC IT Academy
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The **Understanding Data Integrity** course provides a comprehensive overview of**data integrity concepts, principles, and real-world applications** in modern data management systems.

In today's digital environment, data plays a central role in business operations, analytics, and decision-making. Ensuring data is **accurate, consistent, and reliable** is essential for maintaining trust and making informed decisions.

Data integrity refers to the accuracy and consistency of data stored in databases, warehouses, and other systems throughout its lifecycle. This course helps you understand how to maintain and apply data integrity across different industries.

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

Who Should Attend

This course is designed for professionals with at least 1 year of experience:

- Data professionals
- Database and system administrators
- IT managers
- Business intelligence professionals
- QA analysts
- Business leaders

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What You Will Learn

By the end of the course, you will be able to:

- Identify key data integrity concepts and their importance
- Explain different types of data integrity
- Analyze threats and risks to data integrity
- Apply data integrity principles in real-world scenarios
- Evaluate different data integrity strategies
- Design organizational data integrity policies
- Monitor and audit data integrity processes

Training Outline

Introduction to Data Integrity

- Importance in modern systems
- Data integrity in the age of AI
- Differences: integrity vs security vs quality
- Industry use cases

Types of Data Integrity

- Physical integrity
- Logical integrity

Threats and Risks

- Common threats
- Business impact

Ensuring Data Integrity

- Best practices
- Accuracy and consistency techniques

Advanced Concepts

- Advanced strategies
- Organizational data management design

Data Governance

- Governance policies
- ISO standards

Monitoring and Auditing

- Monitoring techniques
- Audit processes

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