Data Administration , Protection and Warehousing

How to Store and Manage Your Data Efficiently for Generations to Come

Introduction

This Course N Carry training course on Data Administration, Protection and Warehousing is intended for professionals and businesses who wish to fully benefit from big data. Since the emergence of the big data phenomenon, businesses have come to rely more and more on sufficient data analytics and data science to effectively plan, prepare for, and respond to business challenges. They also need to use data science and analytics to innovate their business practices, improve customer service, cut costs, and streamline their operations. The phrase "Industrial Revolution 4.0" is now well-known due to its frequent use.

Big Data presents data management challenges because simply having the data is insufficient. Data management is an administrative process that involves gathering, verifying, storing, safeguarding, and processing the necessary data to guarantee the data's timeliness, accessibility, and dependability for its users. This training course emphasises on the necessity of correctly warehousing data because, in the big data era, there are many different data warehousing and security solutions available, and the hardest thing for businesses to decide on is which approach to take.

This instruction session will emphasize:

- Systems of Operation versus Decision Support
- Data Warehouse Strategic Information
- Data management's importance in the Big Data era
- Data Security Techniques for Upcoming Data Warehouses

Objectives

The main objectives of this training course on Data Administration, Protection and Warehousing are to give the attendees the chance to learn how to organize and plan a data warehousing project, data warehouse architecture, and how to store, communicate, and use company data in a safe manner.

Upon completion of this training program, you will:

- Discover how to organize the phases of a data warehousing project.

- Gain the understanding necessary to ascertain the reasons behind the growing demand for strategic information.
- Learn about the underlying issues with data warehousing and management.
- Study data security tactics.
- Know what strategies and techniques to employ in the Big Data era

Training Methodology

A problem-based learning approach is used in this Data Administration , Protection and Warehousing training course. Participants are given a range of real-world problems from the broadest possible range of applications, such as financial risk assessment, supply chain and logistics, oil and gas, and production optimisation. Different models or analytical approaches are required for each situation, as each one shows and illustrates. The entire goal of this training programme is to plan, prepare, and carry out data warehousing projects, with an emphasis on data security and management.

Organizational impacts

The use of data warehousing is becoming commonplace. Companies that manage, store, and secure their data well have a significant competitive advantage. However, this strategy usually ends up wearing down stakeholders, clients, and developers. It is not enough to simply gather, store, and protect data with multiple layers of IT security. Although an enterprise data warehouse can be very beneficial to the sponsoring organization in theory, in fact, it cannot be built quickly enough or at a reasonable cost, according to business executives. As a result, information must be handled carefully, stored in an enterprise data warehouse, and equipped with sufficient security safeguards to both safeguard it and make it readily available for the company's usage.

This instruction session will emphasise:

- How to properly handle company data
- What distinguishes agile software development from traditional software development?
- Standard and current data security issues and measures
- How to assess the reliability of your data
- Current methods for addressing Big Data implementation issues across several domains.

Personal Imapct

In order to avoid mistakes and apply the lessons learned from businesses that have successfully implemented data management, security, and warehousing projects, the delegates will gain insight into the success stories, challenges, and even failures of actual projects.

The representatives will obtain:

- Techniques and Technology for Big Data Mining
- Steps in an Enterprise Database Warehouse Project
- Difficulties in Putting Data Security Strategies Into Practice to Protect Data
- Understanding of Data Warehousing Fundamentals
- Overview of Data Warehousing Trends

Who should attend?

This Course N Carry training course on Data Administration, Protection and Warehousing is intended for professionals whose work entails collecting, analyzing, and making decisions using data.

Though a wide range of professionals can benefit from this training, the following will be especially noted:

- Analysts of Systems
- Coders
- Analysts of Data
- Administrators of Databases
- Project Managers
- Programmers
- Supervisors
- Any Expert in Data Analytics

Course Outline

Day 1

Enterprise Agile Data Warehousing

- Agile Declaration
- The Scrum Approach
- Abnormal Programming Methodology
- Development of Lean Software
- Sources for Standards in Data Warehousing

Day 2

Techniques for Data Security

- How do you tell if the data you have is reliable?
- ISO/IEC 17728 Standard
- GDPR, the General Data Protection Regulation of the EU
- Keeping the Data Warehouse Safe
- A Database's Lifecycle

Day 3

Data Warehouse: Foundational Elements

- Features that Define Data
- Data Marts and Warehouses
- Overview of Data Warehouse Components
- Data Dimensional Analysis
- The need as the primary motivator for data warehousing

Day 4

Data Warehouse: Data Warehousing Architecture and Infrastructure Needs

- Operating Systems and Hardware
- Database Applications
- Automating Operations for Warehousing
- Architecture of Data Warehouses
- Conceptual Model for Business

  Model of Logical Data

  Mode of Physical Data

Day 5

Implementation of Data Management, Security, and Warehousing

- Extracting, Transforming, and Loading Data
- Data Dimensional Modelling: Data Design and Preparation
- Crucial Components of High-Quality Data
- Comparing Data with the User
- Analytical Processing Online (OLAP)
- Processing Large Data in Cloud Environments