

Natural and Adabas System Administration

Course Duration 40 hours (5 Days)

Overview

The **Natural and Adabas System Administration Training** course provides participants with the skills and knowledge required to manage, maintain, and optimize the Natural and Adabas environments. Natural is a fourth-generation programming language used for application development, while Adabas (Adaptable Database System) is a high-performance database management system designed for enterprise solutions. This course focuses on essential administrative tasks such as database configuration, monitoring, troubleshooting, performance tuning, and ensuring data integrity.

Participants will gain hands-on experience in managing system resources, user permissions, and configuring Natural and Adabas environments to support enterprise-level applications. The course also delves into backup and recovery processes, security management, and optimization techniques to ensure the seamless functioning of the system.

Audience:

- System Administrators
- Database Administrators (DBAs)
- Application Support Engineers
- IT Operations and Support Teams
- Developers and Programmers
- System Architects
- Enterprise IT Managers
- Professionals Pursuing Certification

Course Syllabus

1. Introduction to Natural and Adabas System Administration

- Overview of Natural and Adabas
- Key Features and Benefits
- Role of System Administrators in Natural and Adabas
- Introduction to System Administration Tools

2. System Architecture and Components Overview

- Natural System Architecture
- Adabas System Architecture
- Interaction Between Natural and Adabas
- Key Components and Their Functions

3. Installation and Configuration of Natural and Adabas

- Installation Prerequisites and Requirements
- Installing Natural Environment
- Installing Adabas System Components
- Initial Configuration and Customization
- Setting Up Environment Variables

4. Database Management and Optimization

- Creating and Managing Databases
- Database Object Types and Structures
- Data Loading and Indexing
- Query Optimization Techniques
- Database Compression and Resource Management

5. User Management and Security Administration

- Creating and Managing Users and Groups
- Assigning Permissions and Roles
- Implementing Security Policies
- Managing User Sessions and Access Controls
- Auditing and Compliance

6. System Monitoring and Performance Tuning

- Key Performance Metrics for Natural and Adabas
- Tools for System Monitoring
- Identifying and Resolving Performance Bottlenecks
- Memory and Resource Allocation
- Performance Tuning Best Practices

7. Backup, Recovery, and Disaster Management

- Backup Strategies and Procedures
- Performing Full and Incremental Backups
- Recovery Processes and Failover Configurations
- Disaster Recovery Planning and Testing
- Data Integrity and Validation

8. Troubleshooting and Error Resolution

- Common Issues and Errors in Natural and Adabas
- Diagnostic Tools and Techniques
- Error Codes and Their Meanings
- Step-by-Step Troubleshooting Procedures
- Log File Analysis and Reporting

9. Automation and System Maintenance Tasks

- Scheduling Routine Maintenance Tasks
- Automation Tools and Scripting
- Monitoring Scripts and Alerts



- Regular System Health Checks
- Automation for Backup and Recovery

10. Advanced Topics and Best Practices

- Advanced Database Configuration
- High Availability and Load Balancing
- Integrating with Other Systems
- Security Enhancements and Best Practices
- Upgrading Natural and Adabas Systems

11. Hands-on Labs and Practical Scenarios

- Lab Setup and Configuration
- Practical Exercises for System Setup
- Real-Life Database Management Scenarios
- Performance Tuning Case Studies
- Troubleshooting Simulations

12. Course Review and Final Assessment

- Recap of Key Concepts
- Q&A and Clarifications
- Assessment Criteria and Format
- Final Assessment and Feedback Session
- Post-Course Support and Resources