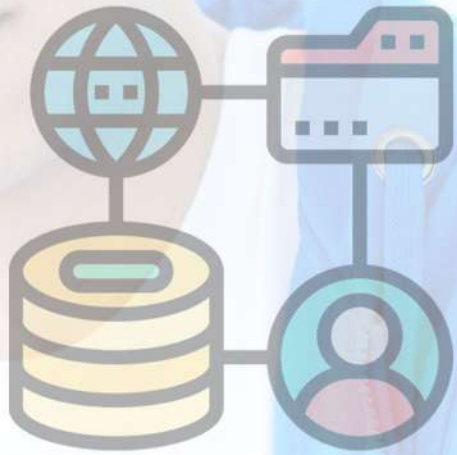
CompTIA Data Systems (DataSys+)

Zetlan Technologies

Online Course



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Course Modules

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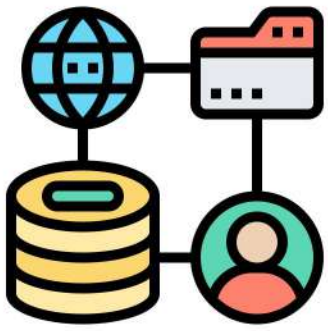
1. **Understanding Database Types and Structures**
   - Identify Relational and Non-Relational Databases
   - Understand Different Types of NoSQL Databases and Tools
   - Understand Relational Database Design
   - Identify Other Data Systems

2. **Recognizing Standards and Commands**
   - Understand Standards and Principles
   - Examine Operating Systems and Command Line Scripting

3. **Running Scripts for Data and Data Systems**
   - Create and Alter Objects Using Data Definition Language
   - Manipulate Data Using Data Manipulation Language
   - Work with Transactions
   - Perform Data Management Tasks

4. **The Impact of Programming on Database Operations**
   - Work with Views
   - Understand Object Relational Mapping
   - Program with SQL
   - Write Functions



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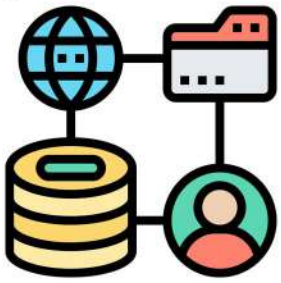
5. Understanding Database Planning and Design



- Understand Types of Architecture
- Gather Data System Requirements
- Review Documentation Requirements

6. Implementing, Testing, and Deploying Databases

- Prepare for Deployment
- Conduct Testing and Other Quality Measures
- Understand Validation Techniques and Methods

7. Monitoring and Reporting on Database Performance

- Consider Database Connectivity Needs
- Monitor the Database
- Understand and Address Deadlocks

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8. Understanding Common Data Maintenance Processes

- Explain Patch Management
- Ensure Database Performance
- Ensure Database Integrity

9. Understanding Governance and Regulatory Compliance

- Importance of Protecting Data and Preventing Data Loss
- Understand Data Retention Policies
- Classify Data
- Consider Global Jurisdiction and Regional Regulations

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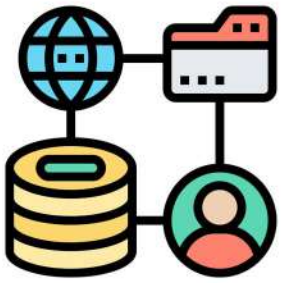
10. Securing Data



- Understand Data Encryption
- Understand Data Masking
- Describe Data Destruction Techniques
- Audit Data Access
- Audit Code and Changes

11. Securing Data Access

- Understand Identity and Access Management
- Understand Access Controls
- Understand Password Policies
- Work with Service Accounts

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12. Securing the Database and Server

- Utilize Physical Security
- Utilize Logical Security

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13. Classifying Types of Attacks

- Mitigate the SQL Injection Attack
- Mitigate the Denial of Service (DoS) Attack
- Mitigate the On-Path Attack
- Mitigate the Brute Force Attack
- Mitigate Social Engineering Attacks
- Mitigate Malware

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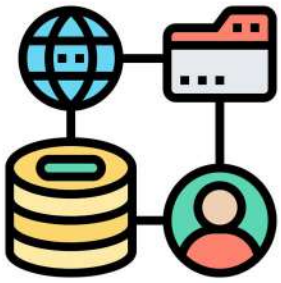

14. Planning for Disaster Recovery

- Plan for Disaster Recovery
- Conduct DR Plan Testing
- Transition/Failback to Normal Operations

15. Implementing Backup and Restore Best Practices

- Identify Types of Backups
- Implement a Backup Strategy
- Store and Purge Backups

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