

# ITF+ CompTIA IT, Part 3 of 3: Database and Security

page 1

**Meet the expert:** Dr. Michael Biocchi completed his PhD and has received his Masters of Science as well as his Bachelor of Computer Science. Michael is a Certified Information Systems Security Professional (CISSP). He is currently a full-time professor teaching a variety of computer science courses. These courses include: Artificial Intelligence, Security and Privacy, Project Management, PHP/MySQL, Distributed Systems, as well as many others. Michael also runs a small consulting business. He works with businesses in developing risk assessment, policy creation, business continuity planning, disaster recovery planning, and security awareness.

**Prerequisites:** none

**Runtime:** 56:13

**Course description:** CompTIA ITF+ helps professionals to decide if a career in IT is right for them or to develop a broader understanding of IT. is a pre-career certification that helps students or career changers determine if they have a competency for information technology and if it is the right career path for them. This course covers learning about Database and Security.

## Course outline:

### Database Concepts

- Introduction
- Databases
- Structure
- DBMS
- CRUD
- Summary

### Database Structure

- Introduction
- DB Structure
- Query
- Normalization
- Joins
- Summary

### Non Relational Data

- Introduction
- Non Relational Data
- Key Value Pairs
- Document Store
- Databases
- which database to use
- Summary

### Database Demo

- Introduction
- Database Demo
- Narrow Selection
- Summary

### Security Concepts

- Introduction
- Security Concepts
- Encryption
- Integrity

- Availability
- System Outage
- Summary

### Authentication

- Introduction
- Authentication
- BioMetrics
- Multi-Factor Authentication
- Summary

### Security Concerns

- Introduction
- Security Concerns
- Social Engineering
- Snooping
- Man in the Middle
- Privacy
- Extremes
- Summary

### Backups

- Introduction
- Backups
- How Much to Recover
- Hot Site
- Cold Site
- Warm Site
- Summary