# SQL Server 2014, Part 6 of 9: Permissions and Data Protection

**Meet the expert:** Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

**Prerequisites:** This course assumes that you have at least a basic familiarity with the concept of relational databases and a basic understanding of what SQL Server is and the high-level tools in it, as well as how to create and manage objects using Management Studio.

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**Course description:** In the SQL Server 2014: Permissions and Data Protection course you will understand permissions in SQL Server and how they provide granular control over data and objects. Then you will learn how to provide a final layer of defense by encrypting data.

**Course outline:**

**Permissions**
• Introduction
• Permissions
• Permission Types
• Permission Statements
• Granting Permissions
• Demo: Assigning Permissions
• Roles, Permissions and
  Schemas
• Demo: Granting Permissions
• Summary

**Default Schemas**
• Introduction
• Default Schemas for Users
• Demo: How Schemas Work
• Default Schemas for Groups
• Demo: Potential Problems
• Summary

**Execution and Metadata**
• Introduction
• Execution Context
• Ownership Chaining
• Changing the Execution
  Content
• Demo: Execution content
• Metadata Security
• Demo: Permissions and
  Metadata
• Summary

**Data Encryption**
• Introduction
• Data Encryption
• Encryption Keys
• Demo: How Encryption Works
• Key Management

• Summary

**Encrypting Data**
• Introduction
• Demo: Table Creation
• Demo: Certificate Keys
• Demo: Asymmetric Keys
• Demo: Symmetric Keys
• Summary