DATABASE ADMINISTRATION

**[1.Introduction To SQL Databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)**

* [Describe key database concepts in the context of SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe database languages used in SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe data modelling techniques](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe normalization and denormalization techniques](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe relationship types and effects in database design](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe the effects of database design on performance](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)
* [Describe commonly used database objects](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse1)

**[2.Upgrading Your Skills To SQL 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)**

* [Key capabilities and components of SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New and enhanced features in SQL Server performance](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New and enhanced features in SQL Server security](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [Whatâ€™s new in SQL Server Availability and Scalability](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New and enhanced features in reporting and PowerBI in SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New and enhanced data access features](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New and enhanced features in SQL Server OLAP](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)
* [New SQL Server cloud functionality](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse2)

**[3. Querying Data with Transact-SQL 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)**

* [Understand the fundamental concepts and underlying architecture of SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)
* [Discover the differences and similarities between Transact-SQL and other languages](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)
* [Write, sort, filter, and modify data using Transact-SQL](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)
* [Query multiple tables, use sub-queries and execute stored procedures](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)
* [Learn to use table expressions, window ranking, set operators, offset and aggregate functions](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)
* [Implement group sets, pivoting and error handling](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse3)

**[4 Implementing a SQL 2016 Data Warehouse (SSIS)](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)**

[   
Understand the components of a data warehousing solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Implement a logical and physical design to create a data warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Implement a physical design for a data warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Understand SSIS for implementing data flows](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Create dynamic packages using parameters and variables](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Implement Data Quality Services and Master Data Services](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Implement custom components for extending SSIS](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

[ Implement Business Intelligence and its common scenarios in this SQL Data Warehouse certification training](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse4)

**[5. Developing SQL Data Models (SSAS)](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)**

* [Understand the architecture, components and features of BI solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Use analytics of SSAS to create a multidimensional database](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Deploy dimensions into a cube](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Deploy measures and measure groups into a cube](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Implement MDX syntax](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Perform customizations on a cube](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Create a tabular database](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Query tables using DAX](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)
* [Conduct predictive analysis using data mining](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse5)

**[6: Analyzing Data with SQL Server Reporting Services (SSRS)](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)**

* [Understand key capabilities and features of data modelling in business intelligence](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)
* [Implement and configure various report services data sources](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)
* [Utilize report designer for creating rich and informative reports](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)
* [Configure reports using report builder and report designer](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)
* [Learn how to generate mobile reports on SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse6)

**[7. Developing SQL 2016 Databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)**

* [Design and create tables and advanced table designs](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Implement Data Integrity using Constraints](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Apply indexing, using Columnstore and Optimized indexes](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Design and create views, functions, stored procedures, In-memory tables](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Apply triggers to respond to data manipulation](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Employ managed code in SQL Server](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Query and store XML Data, Blobs, and text documents](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)
* [Work with Spatial Data in this SQL development training](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse7)

**[8. Analyzing Data with Power BI](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse8)**

* [Understand primary features of a self-service Power BI solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse8)
* [Utilize Power BI and its data sources](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse8)
* [Combine, analyze, model, shape, and visualize data](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse8)
* [Report data using rich dashboards](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse8)

**[9. Administering a SQL Database Infrastructure](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)**

* **[im](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)**[plement automation of database management tasks](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Authentication and authorization of users](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Assigning server roles and database roles](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Encryption and audit of data for ensuring secure access](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Import and export data](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Implement backup strategy and recovery model](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Backup and restore SQL Server databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Manage security of SQL Server](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Manage notifications and alerts](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Administer SQL Server using PowerShell](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)
* [Monitor and troubleshoot SQL Server infrastructure](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse9)

**[10. Performance Tuning and Optimizing SQL Databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)**

[   
Understand the high level architecture of SQL Server 2016 and its different components.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Understand and implement the execution model of SQL Server along with waits and queues.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Understand and execute performance testing, SANs and core I/O concepts.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Define best practices and architecture overview of data files for TempDB and user databases.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Define best practices and architecture overview of Transactions, Isolation Levels, Concurrency, and Locking.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Understand the architecture of Optimizer and learn to recognize and repair issues related to query plans.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Define the best practices, architecture and troubleshooting scenarios related to Plan Cache.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Define the best practices, usage scenarios and troubleshooting strategy for Extended Events.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Devise a data collection strategy and define techniques for data analysis.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

[ Implement tools and techniques to recognize and diagnose bottlenecks, while improving overall performance](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse10)

**[11. Provisioning SQL Databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)**

[   
Understand the platform, components and architectural overview of SQL Server 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Configure and install SQL Server](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Provision a Database Server](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Upgrade SQL Server services and migrate data and applications to the latest version](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Implement SQL Server Virtual Machines in Azure](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Deploy and migrate Azure SQL database](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Manage Database storage and files (shared)](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

[ Maintain database integrity while performing maintenance tasks](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse11)

**[12. SQL Server 2016 Business Intelligence Development](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)**

[   
Understand the underlying architecture, components, and properties of a BI solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Use SSAS analysis services for creating a multidimensional database](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Implement dimensions, measures and measure groups in a cube](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Create a tabular database](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Query a tabular model using DAX](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Customize a cube](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Implement MDX syntax](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

[ Perform data mining for predictive analysis](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse12)

**[13. SQL Server 2016 Database Development](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)**

[   
Understand the underlying architecture and basic concepts of SQL Server 2016.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Familiarize with Transact-SQL and discern its differences and similarities with other query languages.](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Write queries for multiple tables](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Sort, filter and modify data using Transact-SQL](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Understand different data types used in SQL Server](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Use built-in functions, table expressions, set operators and subqueries](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Group and aggregate data](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Implement window ranking, offset and aggregate functions](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Implement grouping sets and pivoting](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Execute stored procedures, transactions and error handling](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

[ Programming with T-SQL](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse13)

**[14. SQL Database Administrator 2016](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse14)**

[Administering a SQL Database Infrastructure (SQL Server 2016)](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse14)

* [Provisioning SQL Databases](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse14)

**[15. Microsoft Sql Server 2016 Business Intelligence Expert](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)**

[   
Describe the key elements of a data warehousing solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Describe the main hardware considerations for building a data warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement a logical design for a data warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement a physical design for a data warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Create columnstore indexes](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implementing an Azure SQL Data Warehouse](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Describe the key features of SSIS](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement a data flow by using SSIS](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement control flow by using tasks and precedence constraints](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Create dynamic packages that include variables and parameters](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Debug SSIS packages](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Describe the considerations for implement an ETL solution](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement Data Quality Services](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Implement a Master Data Services model](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Describe how you can use custom components to extend SSIS](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Deploy SSIS projects](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)

[ Describe BI and common BI scenarios](https://live.learnfly.com/lp/sql/sql-server-training?gclid=EAIaIQobChMIp9zfiuPs8gIVB-vtCh2i9Q6oEAAYASAAEgI9J_D_BwE" \l "collapse15)