

# SQL 2016 Database Administration

Materials & teaching in English



## Strengthen your skills in Microsoft SQL database management, disaster recovery, and high availability, and become a Microsoft Certified Solutions Associate with this e-learning course.

On this e-learning course, you will learn how to configure and administer SQL databases, handle instances, and integrate applications. You will be taught the process of provisioning a database server, administering databases, and configuring and upgrading a SQL server. Throughout the course, you will gain knowledge and experience in areas such as database server, infrastructure, and security.

The curriculum covers topics including encryption, data access, high availability, disaster recovery, and virtual machines. You will also learn how to migrate client applications, administer SQL using PowerShell, and ensure database integrity. Additionally, you will develop competencies in Transact-SQL, query optimization, multi-table database architecture, SQL arithmetic, and troubleshooting.

By completing this comprehensive course, you will strengthen your abilities in Microsoft SQL database management, disaster recovery, and high availability, and be prepared to pursue the Microsoft Certified Solutions Associate certification.

The syllabus corresponds to the content of the certifications:

- 70-764 (Administering a SQL Database Infrastructure)
- 70-765 (Provisioning SQL Database)

Please note that Microsoft has closed the above certifications and therefore it is no longer possible to obtain certification within these..

## You will learn



### SQL Basics

- Understand SQL 2016 and database concepts
- Write and manage queries and tables
- Group, aggregate, and use arithmetic in SQL
- Explore Transact-SQL and subqueries



### SQL Server Administration (70-764)

- Configure data access and permissions
- Backup and restore databases
- Monitor queries and database activity
- Ensure high availability and recovery



### Security & Transactions

- Manage SQL security and permissions
- Work with transaction logs
- Use subqueries and user authorizations
- Implement encryption and troubleshoot



### SQL Infrastructure Tools

- Use PowerShell for SQL Server management
- Set up disaster recovery strategies
- Troubleshoot performance and availability
- Manage encryption and secure access



### Multi-Table Design

- Design multi-table database architectures
- Understand database relationships and structure
- Manage complex queries across tables
- Apply grouping and aggregation in depth



### SQL on Azure (70-765)

- Install and upgrade SQL Server 2016
- Run SQL virtual machines on Azure
- Optimize performance and storage
- Deploy secure Azure SQL applications

## The course is for you if you...

- ✓ Have experience using a PC and Windows operating system.
- ✓ Have a basic understanding of servers, databases, and Transact-SQL.
- ✓ Are motivated and have ambitions to work with MS SQL 2016 database.
- ✓ Possibly have experience with relational databases, the Windows operating system, and knowledge of database

### Course structure

The e-learning course is divided into in-depth sessions with associated Labs you gain a lot of knowledge and at the same time you can test your readiness. As a supplement to the e-learning course, you also get access to a whole library of e-books.

### Certification

Microsoft has closed the certifications associated with the course, so it is no longer possible to obtain certification within these.

### Careercoach

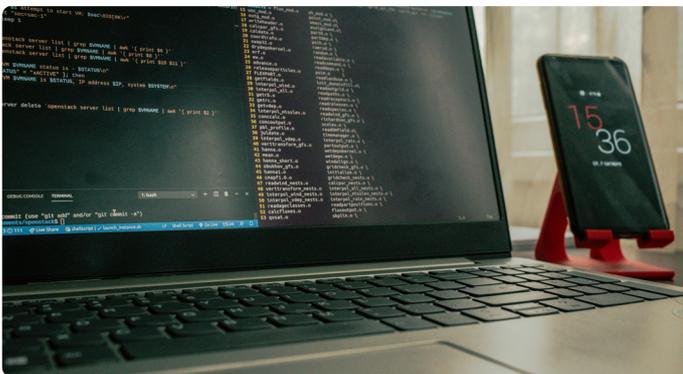
You also can spar with Itucation's career coach regarding CV, application and job strategy. If you wish to take advantage of this offer, please send an email to [kurser@itucation.dk](mailto:kurser@itucation.dk)

## Upcoming courses

- Start every monday!

## Information & Pris

<b>Location</b>	E-learning, Selfstudy
<b>Classes</b>	5 days a week
<b>Duration</b>	6 weeks
<b>Price for applicants</b>	<b>Free for unemployed*</b>
<small>*Free, if you fulfil the criteria for 6-week job-oriented training programs via the Jobcenter</small>	
<b>Price for jobcenter:</b>	Kr. 19.600 (ex. moms)
<b>Sign-up</b>	<b><a href="http://www.itucation.dk">www.itucation.dk</a></b> Or contact us on 7027 2784



## Information til a-kasser og jobcentre

### Regional positivliste

E-learningkurset er godkendt.

Se vores hjemmeside for listetitel og

listenumre.

### Pris

Kr. 19.600 (ex. moms)

Ugepris: kr. 3.266,66 (ex. moms)

### Betalingstilsagn sendes til

Itucation  
Svanevej 22, 2400 København NV  
[kurser@itucation.dk](mailto:kurser@itucation.dk) (sikker mail)  
CVR-nr.: 33248016  
P-nr.: 1016378247