

```
Deloitte.
                    Index.is
re('express');
s.Router();
'../models/user');
ter', function(req, res, next) {
r('register', { title: 'Sign Up' });
gister', function(req, res, next) {
mail &&
e &&
voriteBook &&
ssword 🍇
nfirmPassword) {
body.password !== req.body.confirmPassword) {
r = new Error('Passwords do not match.');
tatus = 400;
n next(err);
erData = {
l: req.body.email,
req.body.name,
oriteBook: req.body.favoriteBook,
sword: req.body.password
se schema's 'create' method to insert docume
create(userData, function (error, user) {
(error) {
ngo-Express/routes/index.js 1:1
```



Querying Microsoft SQL Server

DM101

36
Academic Hours

Querying Microsoft SQL Server

Outline

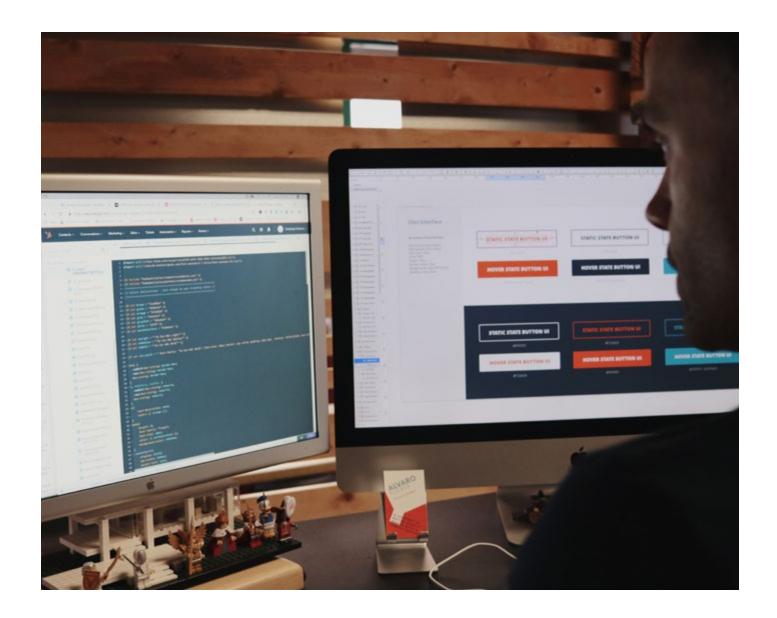
This 36-hours instructor led course provides students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2014 and basic database administration. This course is the foundation for Database Administration and Database Development.

The primary target audience for this course are employees with basic database skills



Prerequisites

- Understanding the concept of database
- Basic knowledge of the Microsoft Windows operating system and its core functionality





Module 01 Introduction to Microsoft SQL Server 2014

,editions.

,versions

tools used to query

,documentation sources

.the logical structure of databases

Module 02 Introduction to T-SQL Querying

,basic structure of T-SQL queries ,logical flow of a SELECT statement concepts introduction: predicates and set-.based operations

Module 03 Writing SELECT Queries

fundamentals of the SELECT statement, queries against a single table

Module 04 Querying Multiple Tables

use of JOINs in T-SQL queries as a mechanism for retrieving data from multiple tables

Module 05 Sorting and Filtering Data

enhance queries to limit the rows they-,return control the order in which the rows aredisplayed .how to resolve missing and unknown results-

Module 06 Working with SQL Server 2014 Data Types

data types SQL Server-.types of numeric and special-use data types-

conversions between data types

.importance of type precedence -

Module 07 Using DML to Modify Data

perform inserts

,updates

. deletes

Module 08 Using Built-In Functions

data type conversion, testing for logical results nullability



Module 09 Grouping and Aggregating Data

grouping data aggregating the grouped data ...filtering groups with HAVING

Module 10 Using Subqueries

use of subqueries in various parts of a .SELECT statement use of scalar ,multi-result subqueries .use of the IN and EXISTS operators

Module 11 Using Table Expressions

,views ,derived tables common table expressions .inline table-valued functions

Module 12 Querying data with Stored Procedures

use of EXECUTE, how to pass input and output parameters to a procedure,

how to invoke system stored procedures

Module 13 Implementing Transactions

concepts of transaction management in SQL-Server ,transaction propertiesmarking transactions with BEGIN, COMMIT and .ROLLBACK

Module 14 Introduction to SQL Server 2014 Database Administration

Database Administration Overview I

I Introduction to the SQL Server Platform I

Database Management Tools and Techniques

Module 15 Installing and Configuring SOL Server 2014

- Planning SQL Server Installation
- Installing SQL Server 2014
- Post-Installation Configuration

Module 16 Working with Databases and Storage

- Introduction to Data Storage with SQL Server
- Managing Storage for System Databases
- Managing Storage for User Databases
- Moving Database Files
- Configuring the Buffer Pool Extension

Module 17 a Backup Strategy

- Planning and Implementing
- Introduction to Transferring Data

Importing and Exporting Data

- Importing and Exporting Table Data
- Copying or Moving a Database

- Understanding SQL Server Recovery Models
- Planning a Backup Strategy
- Backing up Databases and Transaction Logs
- **Using Backup Options**
- **Ensuring Backup Reliability**

Module 20

Module 19

Managing SQL Server Security

Module 18 Restoring SQL Server 2014 Databases

- **Understanding the Restore Process**
- **Restoring Databases**
- **Advanced Restore Scenarios**
- Working with Point-in-Time Recovery

- Introduction to SQL Server Security
- Managing Server-Level Security
- Managing Database-Level Principals
- Managing Database Permissions



This course is the foundation for **Database Administration** and **Database Development**.

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