Microsoft® Official Course

20761C
Querying Data with Transact-SQL

Microsoft

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We've worked together with Microsoft Learning Partners and Microsoft IT Academies to bring you a world-class learning experience, including:

Microsoft Certified Trainers + Instructors. Your instructor is a premier technical and instructional expert who meets ongoing certification requirements.

Customer Satisfaction Guarantee. Our Partners offer a satisfaction guarantee and we hold them accountable for it. At the end of class, please complete an evaluation of today's experience. We value your feedback!

Certification Benefits. After training, consider pursuing a Microsoft Certification, to help distinguish your technical expertise and experience. Ask your instructor about available exam promotions and discounts.

We wish you a great learning experience and ongoing career success!

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Hello

- Instructor: Piotr Palka
- My credentials:
  - Microsoft Certified Solutions Associate (MCSA)
  - Master of science, software engineering
- What I do:
  - Credit Union (WSECU) - Data Quality Engineer
  - Past: Department of Social and Health services – database development team manager
- My technical and professional experience
- https://www.linkedin.com/in/palka/

Student Introductions

- Name
- Company affiliation
- Title/function
- Job responsibility
- Business Intelligence experience
- Your expectations for the course

Facilities

- Class hours
- Building hours
- Parking
- Restrooms
- Meals
- Phones
- Messages
- Smoking
- Recycling

About This Course

- Audience
- Course Prerequisites
- Course Objectives
- What You Can Expect

Your Course Materials

Designed to optimize your classroom learning experience.
And support you back on the job.

Microsoft Official Course Handbook

- Organized by Modules
- Includes Labs + Lab Answer Keys
- Module Reviews + Takeaways—
  great for on-the-job reference

Course Outline

- **Module 1**, "Introduction to Microsoft SQL Server 2016"
- **Module 2**, "Introduction to T-SQL Querying"
- **Module 3**, "Writing SELECT Queries"
- **Module 4**, "Querying Multiple Tables"
- **Module 5**, "Sorting and Filtering Data"
- **Module 6**, "Working with SQL Server 2016 Data Types"
- **Module 7**, "Using DML to Modify Data"
- **Module 8**, "Using Built-In Functions"

Course Outline

- **Module 9,** "Grouping and Aggregating Data"
- **Module 10,** "Using Subqueries"
- **Module 11,** "Using Table Expressions"
- **Module 12,** "Using Set Operators"
- **Module 13,** "Using Windows Ranking, Offset, and Aggregate
- Functions"
- **Module 14,** "Pivoting and Grouping Sets"
- **Module 15,** "Executing Stored Procedures"
- **Module 16,** "Programming with T-SQL"
- **Module 17,** "Implementing Error Handling"
- **Module 18,** "Implementing Transactions"

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Preparing for the Labs

Your lab activities will be centered around Adventure Works Cycles, a fictitious manufacturer and seller of cycles and related products.

To complete the labs, you will work in a virtual machine (VM) environment.

Virtual Machine Environment

Virtual Machine Name:	Use as:
20761C-MIA-DC	Domain controller
20761C-MIA-SQL	Database and BI server
MSL-TMG1	Internet gateway