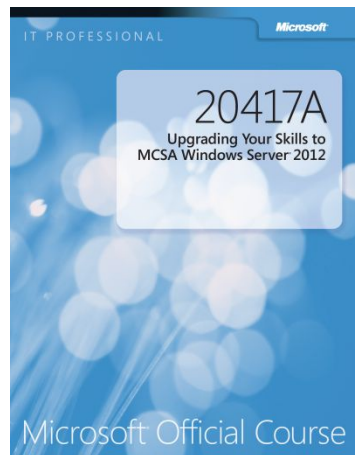# Your Course Materials

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

- **Querying Data with Transact–SQL**

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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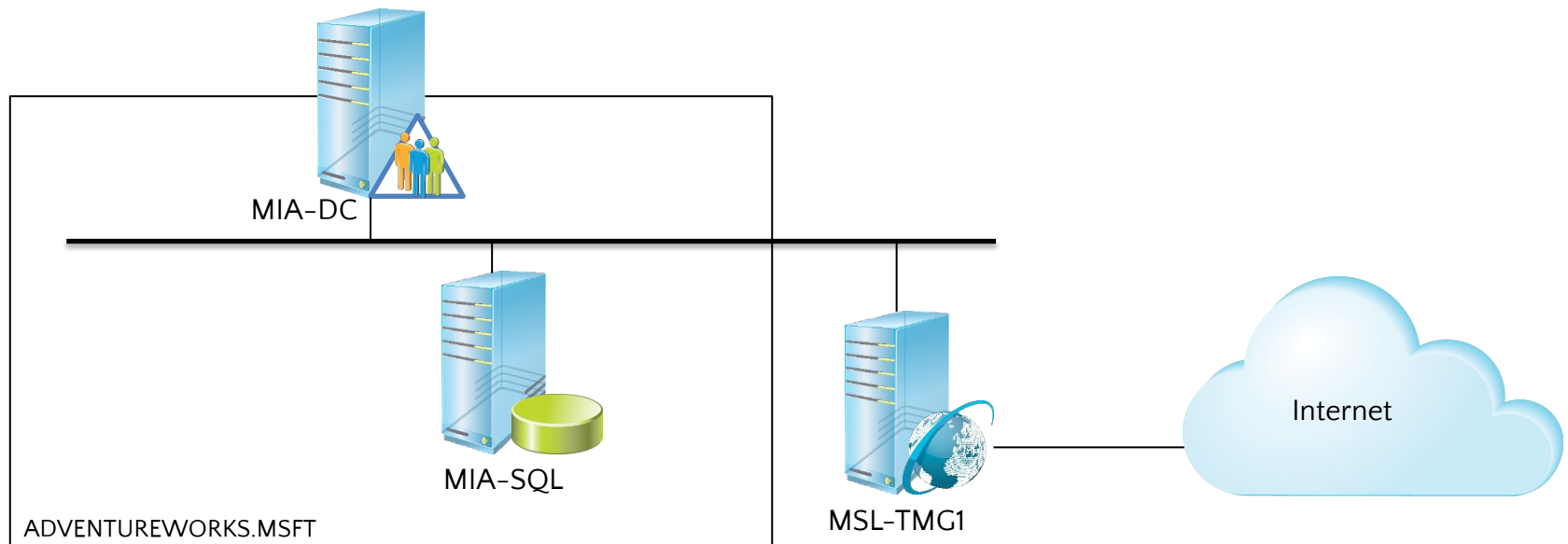Microsoft

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

Demonstration: Using Hyper-V Manager

In this demonstration, you will learn how to:

- Open Hyper-V Manager
- Navigate the various sections/panes within Hyper-V Manager
  - Virtual Machines, Snapshots, and Actions: Server-specific and VM-specific
- Identify the VMs used in the labs for this course
- Take a Snapshot and Apply a Snapshot
- Connect to a VM
- Start and log on to a VM
- Switch between full screen and window modes
- Revert to the previous Snapshot
- Shut down a VM
  - When to use Shut Down or Turn off
- Close Hyper-V Manager