



MICROSOFT TRAINING

Master Querying Microsoft Sql Server

Master SQL Server querying to efficiently retrieve and manipulate data. Unlock advanced data management skills for your career.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This "Master Querying Microsoft SQL Server" course at Computer Pride is meticulously designed for IT professionals, data analysts, and developers looking to elevate their data retrieval and manipulation skills within the Microsoft SQL Server environment. Over two intensive hours, you will dive deep into Transact-SQL (T-SQL), the powerful SQL dialect used by Microsoft SQL Server. The curriculum spans essential topics from fundamental SELECT statements to advanced techniques like complex joins, subqueries, and common table expressions (CTEs), ensuring you gain a comprehensive understanding of efficient data extraction.

By completing this intermediate-level course, you will not only master the syntax but also learn best practices for writing optimized and robust queries. You'll gain practical experience in querying single and multiple tables, filtering and sorting data, aggregating information, and performing basic data modification operations. This proficiency is crucial for anyone involved in data analysis, report generation, application development, or database administration, empowering you to unlock valuable insights from your organizational data with confidence and precision.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to SQL Server Querying

- Understanding Relational Databases and SQL Server
- Introduction to Transact-SQL (T-SQL)
- Basic SELECT Statements: FROM, SELECT, DISTINCT
- Working with Aliases
- Understanding Data Types in SQL Server

02 Module 2: Filtering, Sorting, and Combining Data

- The WHERE Clause: Comparison, Logical, and LIKE Operators
- ORDER BY Clause: Sorting Results
- Using TOP and OFFSET-FETCH for Paging
- Introduction to JOINS: INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN
- Self-Joins and Cross Joins

03 Module 3: Advanced Querying Techniques

- Subqueries: Single-Row, Multi-Row, and Correlated Subqueries
- Common Table Expressions (CTEs)
- Window Functions: ROW_NUMBER, RANK, DENSE_RANK, NTILE
- Aggregate Functions: SUM, AVG, COUNT, MIN, MAX
- GROUP BY and HAVING Clauses

04 Module 4: Data Manipulation and Transactions

- INSERT Statements
- UPDATE Statements
- DELETE Statements
- TRUNCATE TABLE
- Understanding Transactions: BEGIN TRAN, COMMIT TRAN, ROLLBACK TRAN

05 Module 5: Introduction to Query Optimization

- Understanding Execution Plans (Basic)
- Indexing Concepts (Clustered vs. Non-Clustered)
- Writing Efficient Queries: Avoiding Common Pitfalls
- Using SET OPTIONS for Query Behavior

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Database Administrator (DBA)**
- > **Business Intelligence (BI) Analyst**
- > **Report Developer (e.g., using SSRS, Power BI)**

FREQUENTLY ASKED QUESTIONS

Q: What specific real-world challenges will I be able to solve with the SQL querying skills learned in this course?

Upon completing this course, you'll be equipped to tackle various real-world data challenges. You'll confidently extract specific customer orders for marketing campaigns, generate detailed sales reports by region, combine data from multiple departmental tables to create a holistic business view, troubleshoot data integrity issues, and even prepare datasets for advanced analytics or machine learning models. Your ability to precisely query and manipulate data will make you invaluable for data-driven decision-making.

Q: Is prior experience with database administration or programming languages required to benefit from this intermediate course?

While this is an intermediate-level course, a foundational understanding of relational database concepts is highly recommended. You should be familiar with what a table, column, row, and primary/foreign key are. No prior programming language experience is strictly required, as the course focuses specifically on Transact-SQL for querying. However, having worked with any data-related tools or having a basic grasp of logical thinking will be beneficial.

Q: How does mastering advanced T-SQL querying, as taught in this course, contribute to career progression beyond entry-level roles?

Mastering advanced T-SQL querying is a critical accelerator for career progression. It transforms you from someone who can merely retrieve data into a data expert who can analyze, optimize, and synthesize complex information. This skill set is highly sought after for roles such as Senior Data Analyst, Database Developer, BI Developer, and even aspiring Database Administrators, as it directly impacts performance tuning, complex report generation, and the efficient development of data-centric applications. It signifies your ability to handle large, intricate datasets effectively.

ABOUT COMPUTER PRIDE

**computerpride*****East Africa's Premier IT Training Center***

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location

1st Flr, ICEA Building
Kenyatta Ave, Nairobi

Email

info@computer-pride.co.ke

Phone

+254 705 900 900

www.computer-pride.co.ke