



Transact-SQL Querying - Fast Track

Course Title

Transact-SQL Querying - Fast Track

Instructor

[Amit R S Bansal](#)

Total Duration

6 hrs 40 mins

Total Lecture Time

2 hrs 10 mins

Total Demo Time

4 hrs 30 mins (*Yeah, demos are the real value*)

Delivery Format

Video Course. Stream anywhere, anytime, any device, as many times.

Course Description

If you work with SQL Server, querying data using T-SQL is certainly an integral part of your work. Irrespective of your role - Developer, Database Administrator, Data Architect, Data Analyst, Business Intelligence, Data Scientist, or just a power user – T-SQL querying skills are critical for you to be successful. This video course gives you a strong foundational skill with T-SQL querying and loads of practical examples that you can start using right away. You will learn about T-SQL language elements, logical flow, Query Optimizer, all the types of logical and physical joins, apply operator, set operators, sub-queries, tables expressions, ranking functions, aggregations and pivoting. Yes, very comprehensive coverage in a fast-track mode, packed with loads of real-world demos. Along the way, you will learn about a few T-SQL enhancements in different versions of SQL Server. Wherever relevant, query tuning is discussed with examples. At the end of the course, you will be able to write accurate and performant T-SQL code.

Pre-Requisite

Just basic experience with SQL Server.

Course Outline

Module 0: Introduction

- Before You Begin
- Modules
- Demo Setup
- What Not To Expect
- What To Expect
- How To Get The Best Out Of This Course

Module 1: Introduction To T-SQL Querying

- Historical Information
- Logical Flow of a SELECT Statement
- T-SQL Language Elements
- TOP Clause
- Query Optimizer Basics
- Understanding Execution Plans
- TRUE, FALSE & UNKNOWN
- Demos

- Summary

Module 2: Joins

- CROSS Join
- INNER Join
- OUTER Joins
- Other Join Types
- Physical Join Types
- APPLY Operator
- Demos
- Summary

Module 3: Set Operators

- UNION
- UNION ALL
- INTERSECT
- EXCEPT
- Caveats
- Demos
- Summary

Module 4: Subqueries

- Introduction
- Types of Subqueries
- Classification
- Limitations / Side Effects
- Demos
- Summary

Module 5: Table Expressions

- Derived Tables
- Common Table Expressions
- Demos

- Summary

Module 6: Ranking Functions

- ROW_NUMBER
- RANK
- DENSE_RANK
- NTILE
- Caveats
- Demos

Module 7: Aggregations

- OVER Clause
- Running Aggregations
- CUBE and ROLLUP
- Grouping Sets
- Grouping_ID
- Demos
- Summary

Module 8: Pivoting

- PIVOT
- UNPIVOT
- Demos
- Summary

Module 9: Wrap Up

[Learn More: http://bit.ly/SQLMaestrosVC](http://bit.ly/SQLMaestrosVC)

Course Title

Transact-SQL Querying - Fast Track

Module Names	Content Type	Duration (mm:ss:00)
Module 0: Introduction		
	Lecture	Full Module 11:44:00
Before You Begin The Demos		
	Lecture	Before You Begin The Demos 7:42:00
Module 1: Introduction To T-SQL Querying		
	Lecture	Intro & Agenda 1:18:00
	Lecture	Historical Information 2:55:00
	Lecture	Logical Flow of a SELECT Statement 4:20:00
	Demos	Demos: Logical Flow of a SELECT Statement 12:22:00
	Lecture	T-SQL Language Elements 2:19:00
	Lecture	TOP Clause 3:15:00
	Demos	Demos: Working with TOP Clause 9:14:00
		Query Optimizer Basics
	Lecture	Understanding Execution Plans 8:15:00
		Demos: Query Optimizer Basics
	Demos	Demos: Understanding Execution Plans 14:48:00
	Lecture	TRUE, FALSE & UNKNOWN 4:40:00
	Demos	Demos: TRUE, FALSE & UNKNOWN 9:09:00
	Lecture	Summary 2:03:00
		Total Duration 74:38:00
Module 2: Joins		
		Intro & Agenda
	Lecture	Cross Join 4:04:00
		Inner Join
	Lecture	Inner Join with NULLs 5:33:00
		Outer Join (LEFT, RIGHT, FULL)
	Lecture	Other Join Types 6:00:00
		Physical Join Types
	Lecture	Nested Loop Join 2:59:00

	Physical Join Types	
Lecture	Merge Join	5:15:00
	Physical Join Types	
	Hash Join	
Lecture	Caveats	4:53:00
Lecture	APPLY Operator	1:56:00
Demos	Demos: Cross Join	17:38:00
Demos	Demos: Inner & Outer Join	17:21:00
Demos	Demos: APPLY Operator	14:17:00
Lecture	Summary	1:08:00
	Total Duration	81:04:00

Module 3: Set Operators

	Intro & Agenda	
	UNION	
	UNION ALL	
	INTERSECT	
	EXCEPT	
Lecture	Caveats	10:45:00
Demos	Demos: SET Operators	18:02:00
Lecture	Summary	0:54:00
	Total Duration	29:41:00

Module 4: Subqueries

	Intro & Agenda	
	Types of Subqueries	
	Classifications	
Lecture	Limitations / Side Effects	5:38:00
Demos	Demos: Scalar Subqueries	15:34:00
	Demos: Correlated Subqueries	21:53:00
Lecture	Summary	0:59:00
	Total Duration	44:04:00

Module 5: Table Expressions

	Intro & Agenda	
	Derived Tables	
Lecture	Common Table Expressions	4:32:00

	Demos: Derived Tables & Common Table	
Demos	Expressions	26:11:00
Lecture	Summary	0:47:00
	Total Duration	31:30:00

Module 6: Ranking Functions

	Intro & Agenda	
	ROW_NUMBER	
	RANK	
	DENSE_RANK	
	NTILE	
Lecture	Caveats	8:29:00
Demos	Demos: Ranking Functions	27:01:00
Lecture	Summary	1:00:00
	Total Duration	36:30:00

Module 7: Aggregations

	Intro & Agenda	
	Over Clause	
	Running Aggregations	
	CUBE and ROLLUP	
	Grouping Sets	
Lecture	Grouping_ID	8:30:00
Demos	Demos: OVER Clause	12:21:00
Demos	Demos: CUBE & ROLLUP	10:27:00
Demos	Demos: Grouping Sets & Grouping_ID	10:41:00
Demos	Demos: Cumulative Aggregations	20:28:00
Lecture	Summary	0:45:00
	Total Duration	63:12:00

Module 8: Pivoting

	Intro & Agenda	
	Pivoting	
Lecture	Unpivoting	3:32:00
Demos	Demos: Pivoting & Unpivoting	12:57:00
Lecture	Summary	0:59:00
	Total Duration	17:28:00

Module 9: Wrap Up

Lecture

Full Module

2:21:00

Total Course Duration (MM:SS:00)

399:54:00

Total Course Duration (HH:MM:SS)

6 hrs 40 mins

Total Lecture Time

2 hrs 10 mins

Total Demo Time

4 hrs 30 mins

Yeah, demos are the real value !