

# SQL Server: Common Query Tuning Problems and Solutions – Part 1

Course Introduction

**Joe Sack**

[Joe@SQLskills.com](mailto:Joe@SQLskills.com)

<http://www.SQLskills.com/blogs/Joe>

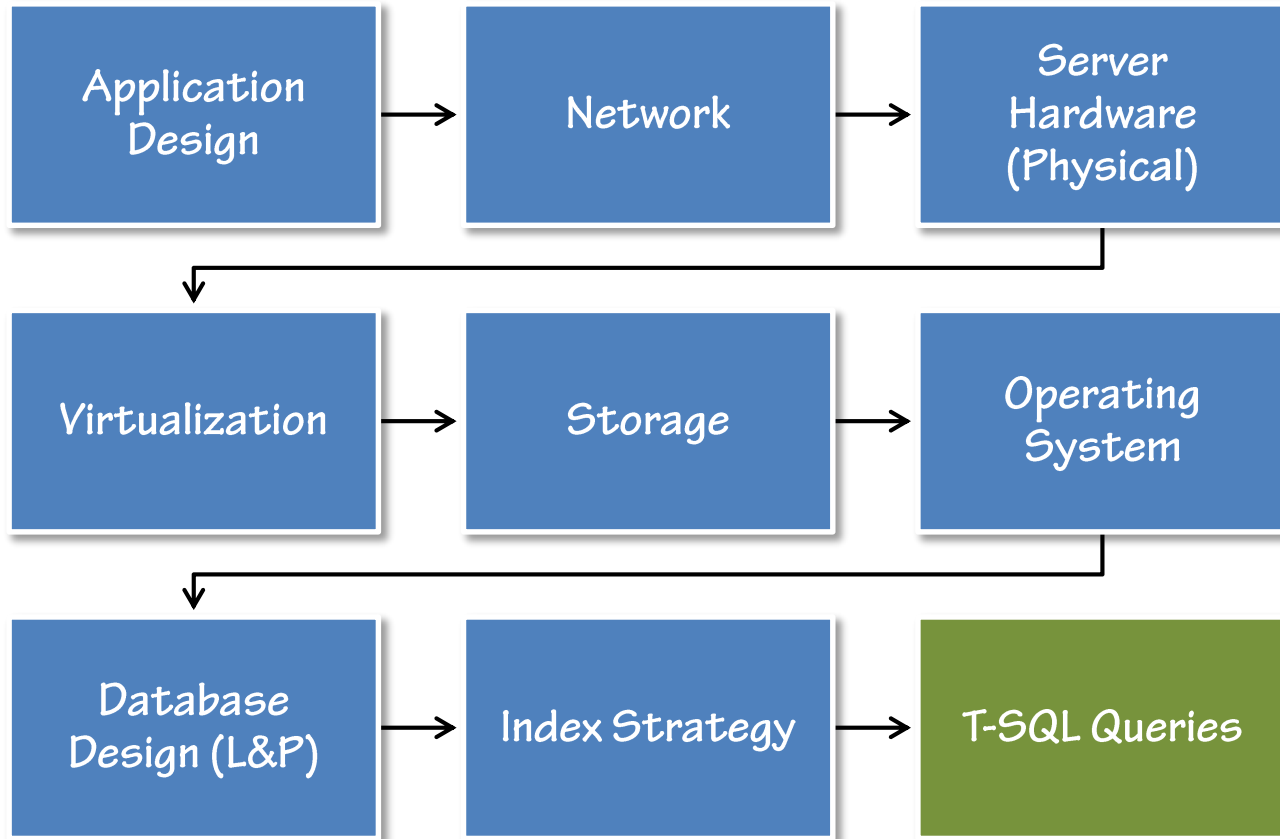


**pluralsight**   
hardcore developer training

# Course Introduction

- Query tuning your Transact-SQL (T-SQL) code is one part of a very wide SQL Server performance-tuning surface area
- Although T-SQL is a declarative language where you tell it WHAT to do but not HOW to do it, often how you write your code is still very critical from a performance perspective
- The most effective query tuners have a solid understanding of the SQL Server Engine and have experienced numerous patterns throughout their career
- Query tuning can be challenging due to the vast differences between database designs, data distributions, and workload requirements
- Being able to effectively determine root cause and improve performance is a highly-valued skill in today's job market
- This two-part course will cover common query tuning problems and associated solutions

# Course Scope



# Course Structure

- **Part I (this course) covers:**
  - Module 2: Validating Assumptions
  - Module 3: Troubleshooting Bad Assumptions
  - Module 4: Tuning Imprecision Problems
  
- **Part II will cover:**
  - Module 2: Tuning Inefficiency Problems
  - Module 3: Tuning OLTP vs. DSS Patterns
  - Module 4: Advanced Query Tuning Patterns
  
- **All demos will use SQL Server 2014 RTM, Enterprise Edition**
- **Sample database (for Part I):**
  - Credit: <http://bit.ly/1jxanVr>