

Optimizing Stored Procedure Performance



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Introduction



Creating a baseline

- Dynamic management view
- Reading pages
- Testing multiple values

Performance myths

- Stand up to the test

Parameter sniffing

- Negative effects



Creating a Baseline



“You can’t hit a target you cannot see,
and you cannot see a target you do not
have.”

Zig Ziglar





Create a performance baseline

- Measure starting place
- Users complain

Test performance

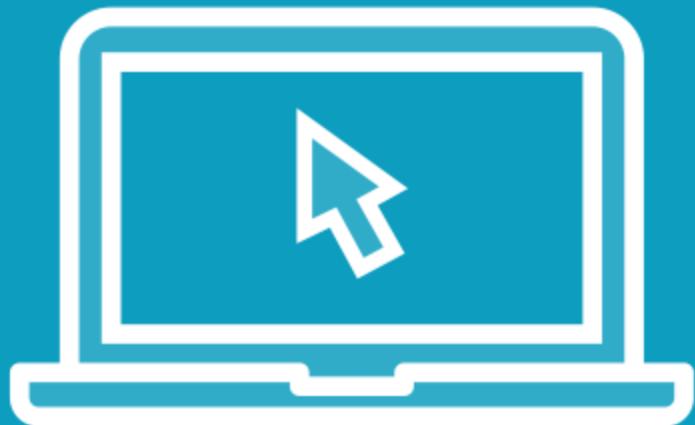
- Dynamic management view
- Pages read

Development phase

- Off to a good start



Demo



Dynamic management view

Gathering performance data

- Review pages read



Performance Myths





Are you ready to bust some SQL myths?



Temp tables stop plan reuse

- Outdated information
- Add indexes to your temp tables

Check if the value exists

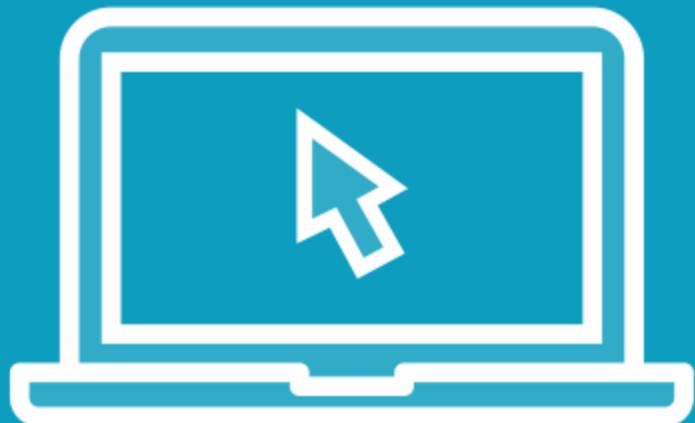
- SELECT 1 versus SELECT *
- Does this hold up?

Breaking up stored procedures

- Another myth



Demo

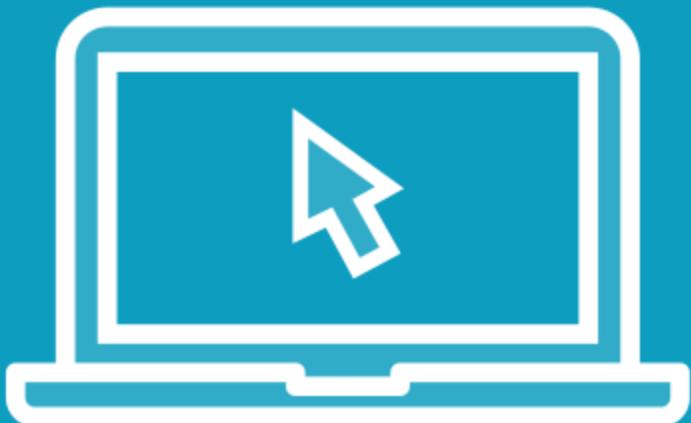


Temporary table plan reuse

- Simple test



Demo



Using IF EXISTS or IF NOT EXISTS
- SELECT 1 versus SELECT *



Parameter Sniffing





Cached parameter values

- Expected behavior
- One size fits all

We need a bigger car

- Reusing parameter values

Fixing parameter sniffing

- Recompile the sproc
- Individual statements





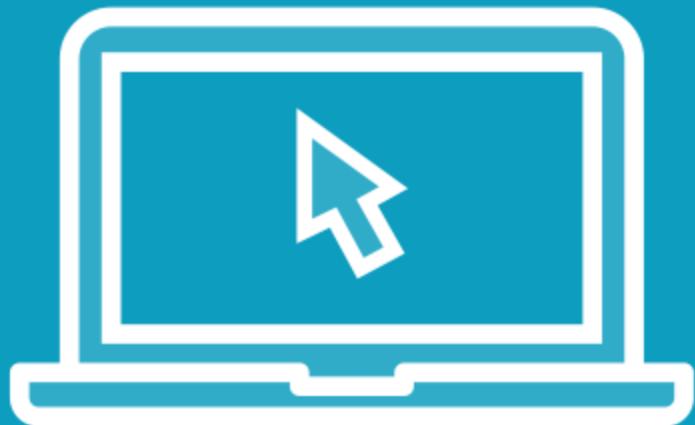
Great Pluralsight Course

Identifying and Fixing Performance Issues Caused by Parameter Sniffing

Gail Shaw



Demo



Identify parameter sniffing

- Execution plan

Dealing with parameter sniffing

- Recompile



Summary



Baseline creation

- Built-in tools
- Reduce page reads

Common myths

- Test multiple values

Parameter sniffing

- Overcoming or reducing



Up Next:
Building Stored Procedures in the Real World

