

Creating Efficient Query Plans Using Query Store



Pinal Dave

SQL SERVER PERFORMANCE TUNING EXPERT

<https://blog.sqlauthority.com>



Agenda



Query store

Setup and configuration

Query store reports

Real world scenarios

Demos



“Unless you have a definite,
precise, **clearly** set goals, you are
not going to realize the **maximum**
potential that lies within you.”

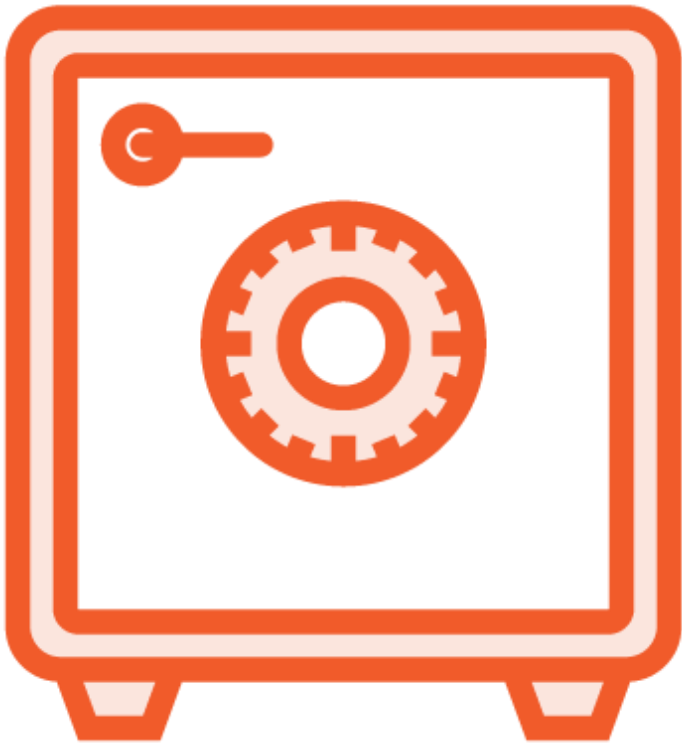
Zig Ziglar



What is a query store?

A query store tracks query plans, statistics, and historical data to help diagnose performance degradation of the queries over time.





Query store

- Database level feature
- Available in all editions
- Find performance regression
- Identify resource intensive queries
- Query plan and execution history
- Forcing query plans

Demo



Query store setup & configuration





Three important query stores

- Plan store
- Runtime stats store
- Wait stats store



Query store reports

- Regressed queries
- Overall resource consumption
- Top resource consuming queries
- Queries with forced plans
- Queries with high variation
- Query wait statistics
- Tracked queries

Demo



Query store reports

- Overview
- Various options



After 60 seconds



Real World Scenario

Time A

Parameter Value = A



Performance: A+



Time B

Parameter Value = B



Performance: D-

Problem Statement:

How to get optimal performance from a query at all the time with all the parameters?



Demo



Query store real world scenario

- Problem
- Resolution



Summary



Query store is an efficient and easy way to keep a vigilant watch on your query performance and resource consumption

Free performance monitoring and tuning tool out-of-the-box in all versions of SQL Server 2016 and onwards

