

# Using Automatic Plan Correction

---



**Erin Stellato**

PRINCIPAL CONSULTANT

@erinstellato   [www.sqlskills.com/blogs/erin](http://www.sqlskills.com/blogs/erin)



# Module Overview



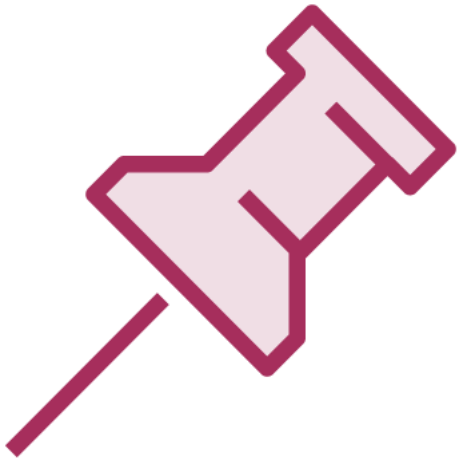
**Understanding Automatic Plan Correction**

**How it works**

**Data captured**



# Forcing Plans with Query Store



**Query Store allows you to easily find regressed queries with multiple plans and force one plan**

**Not schema-bound**

**If a plan is no longer optimal, Query Store will continue to use it, unless you un-force it or forcing fails**

# Automatic Plan Correction

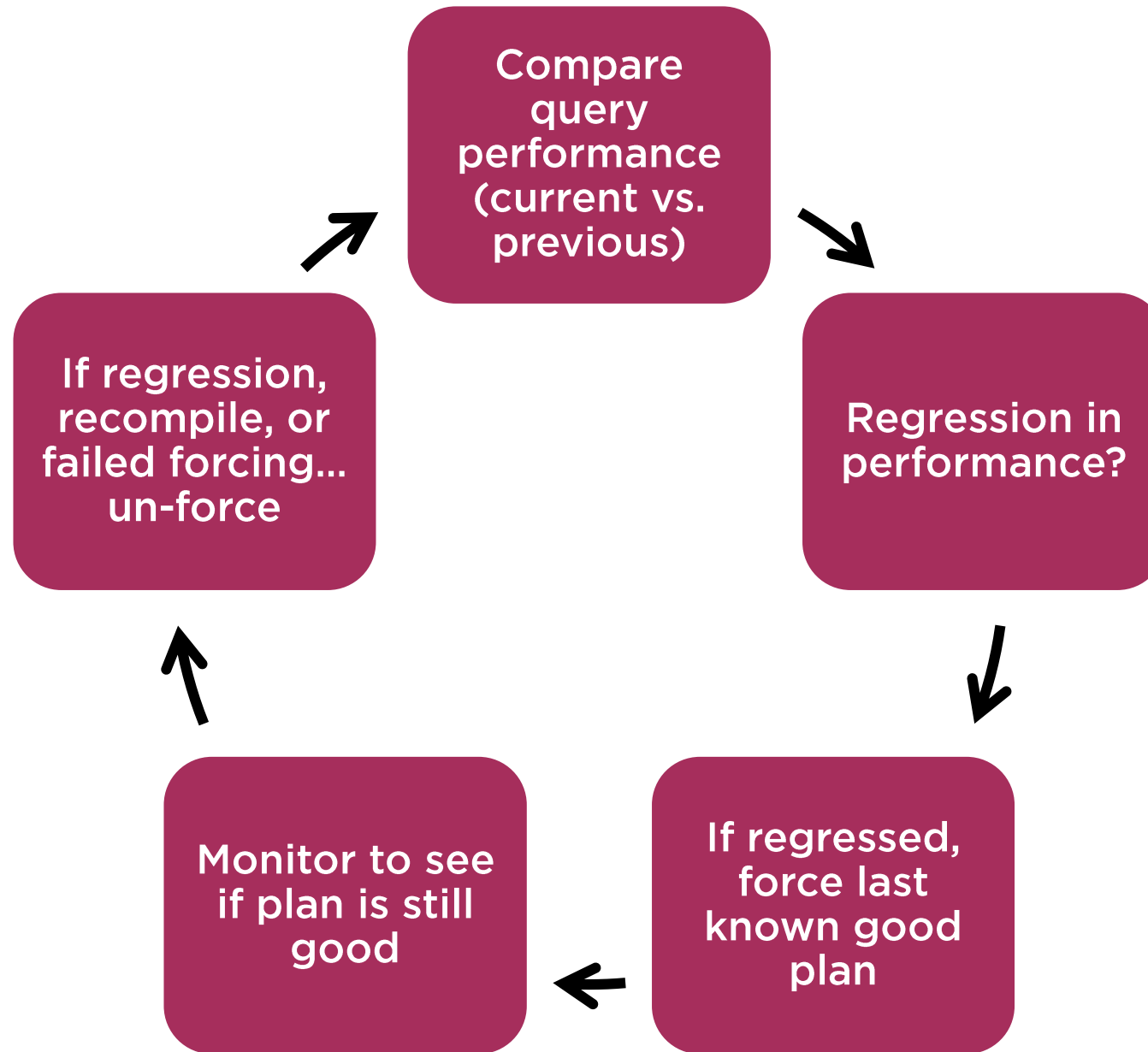
**SQL Server 2017**

**Azure SQL Database**

**Uses Query Store**

**Disabled by default**





Data captured can be used  
to force plans manually



# Demo



## Automatic Plan Correction in Action





Developed with telemetry

May not “catch” every regression

Ability to recover from a “not-so-great decision” is highly reliable



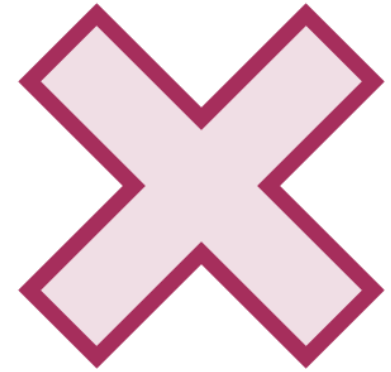
# Reasons a Plan Will Be Un-forced



Regression

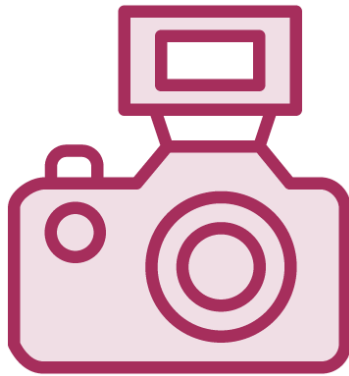


Recompile



Failed forcing

# Monitoring



Snapshot information from  
`sys.dm_db_tuning_recommendations`



Create an Extended Events session  
to track related events



# What We Covered



**Understanding Automatic Plan Correction**

**How it works**

**Data captured**

