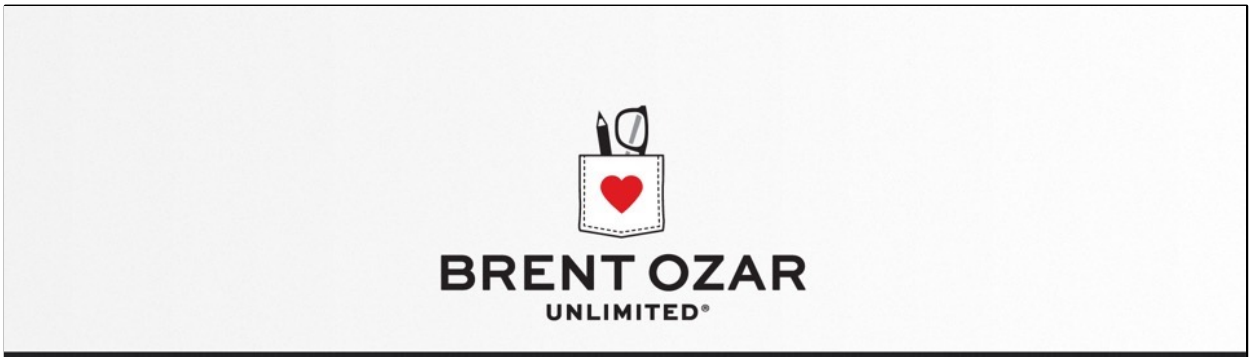


Recap and Final Lab

Let's put your knowledge to work and actually fix the problems you've been seeing.

Ways to mitigate sniffing

Index tuning: reduce residual predicates, sorts

Query hints: take choices away from SQL Server

Recompile: for queries running <1 time per minute, always at the statement level (never the proc)

Branching, dynamic SQL: postpones compilation until SQL Server knows more about the data

SQL Server's newer built-in tools

- Adaptive memory grants
- Adaptive joins
- Batch execution mode

These give SQL Server more choices, which effectively means more challenging sniffing issues.

Query Store, automatic tuning: works in progress.

Diagnosing sniffing issues

Plan cache right now: limited info, no history, no parameters, no spills

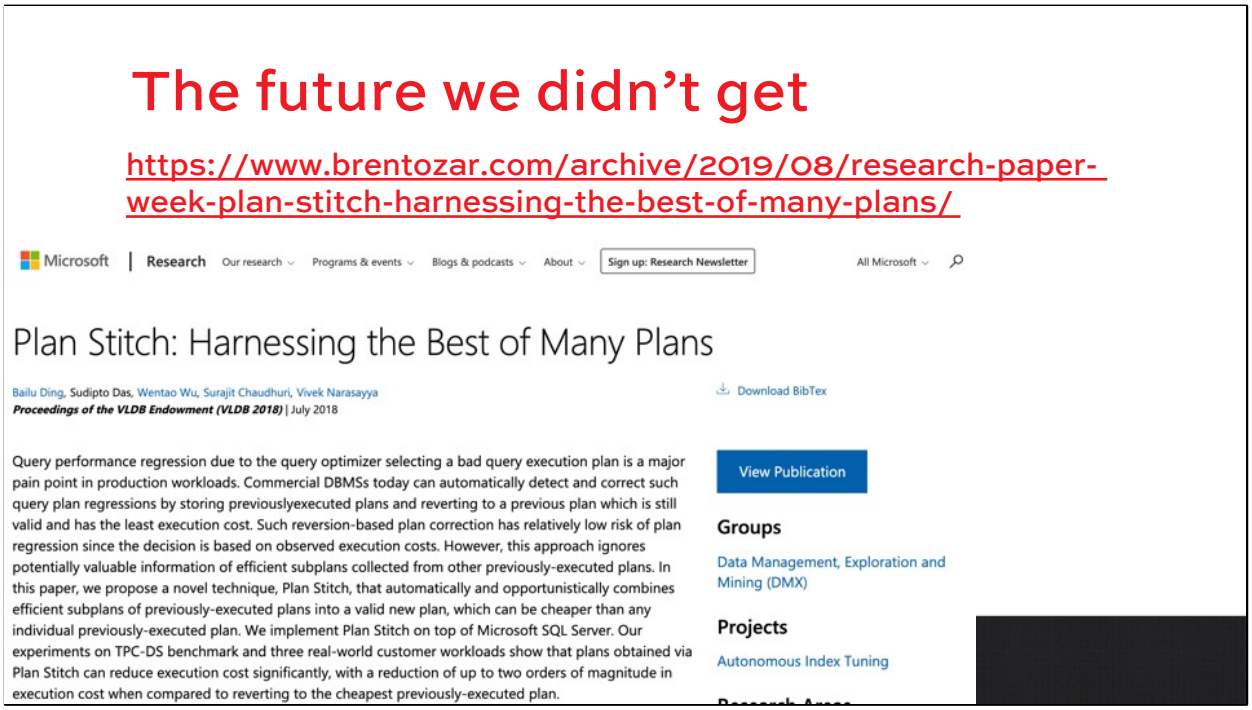
Plan cache over time with sp_BlitzFirst:
requires planning ahead, but way more powerful

Live snapshots with sp_BlitzWho:
gets you the real parameters, real plans

usp_PlanCacheAutopilot: easy button,
but wildly untested

The future we didn't get

https://www.brentozar.com/archive/2019/08/research-paper-week-plan-stitch-harnessing-the-best-of-many-plans/



Now, your final lab.

You've been collecting parameters & plans.

Now, make each query less susceptible to parameter sniffing.

I didn't say "fix it" – there's often no finish line. Just improve the situation.

Day 3: fixing the queries together.

The lab you're doing now gets you to fix 1-2 queries.

Tomorrow, I'll fix several based on your votes.

You can do this.

For questions on the modules, leave a comment on the recording page for that module.

For private help for anything after the class, email Help@BrentOzar.com with:

- A note that you were in this class
- sp_Blitz @CheckServerInfo = 1
- sp_BlitzFirst @SinceStartup= 1