Lab 1: Get One Plan to Work Well Enough

1.4 p1

Setting up for the lab

1. Restart your SQL Server service (clears all stats)

2. Restore your StackOverflow database (Agent job)

3. Copy & run the setup script for Lab 1

4. (No SQLQueryStress for this lab)

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Task #1: fix these 2 parameters

```
EXEC usp_MostRecentCommentsForMe @UserId = 26837,
@MinimumCommenterReputation = 0,
@MinimumCommentScore = 0

EXEC usp_MostRecentCommentsForMe @UserId = 22656,
@MinimumCommenterReputation = 10000,
@MinimumCommentScore = 50
```

Get them both to run in <5 seconds no matter which one is called first.

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Task #2: find more outlier params

Find at least 3 other sets of parameters that might cause a problem for your newly tuned stored proc.

- Outlier users

- Outlier minimum reputations

- Outlier minimum comment scores

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Task #3, optional: fix those too

Can you tune it so everyone performs in <5 seconds?

What changes might you consider making?

(This one's really hard.)

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Gotchas

Recompile hints are off-limits

You're not allowed to drop indexes:
assume all indexes are being used
by other queries

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How to turn in your homework

Use PasteThePlan.com to share your
original query plan and your revised one:

Brent Ozar 6:12 AM
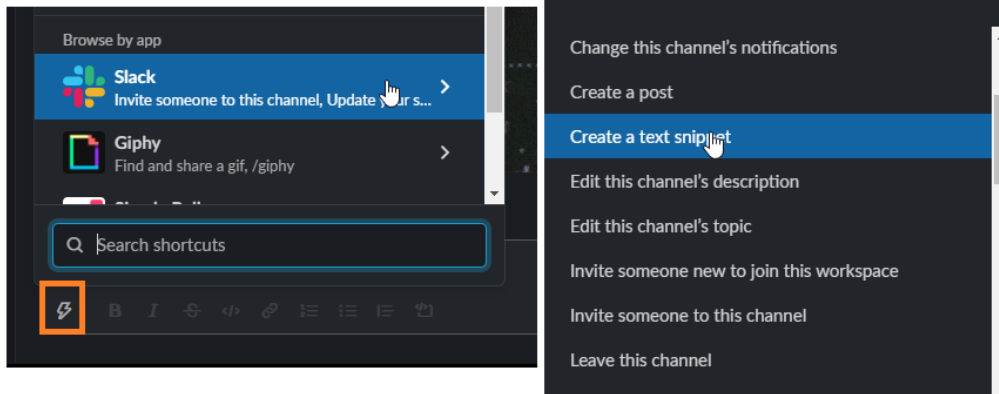I worked on mqt_Lab1_Level1. Here was the query plan when I started:
https://www.brentozar.com/pastetheplan/?id=HylHWohu4 And here's the query plan
now that I replaced the temp table with a CTE:
https://www.brentozar.com/pastetheplan/?id=SkWKzy6d4

To use PasteThePlan.com: when looking at an actual query plan,
right-click on the white space, click View XML, copy all of that,
go to PasteThePlan.com, paste it there. You'll get a URL that
you can share with others.

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To turn in your homework in Slack

1.4 p8

Stumped? Take a peek at Slack.

The Slack room lets you see:

- Other peoples' answers

- How quick (or slow) you are compared to them

- How thorough you are compared to them

- Who you should cheat off of
  during the final exam

1.4 p9