How to Utilize Index Tipping Point Data in Plan Explorer

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- SQL Server DBA & DB Developer
- Chicago Suburban User Group Chapter Leader
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- Working with SQL Server since 2001
- Speaking since Early 2014
- Microsoft MVP (2017-2018)



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Why Didn't That Query Use My Index?!?

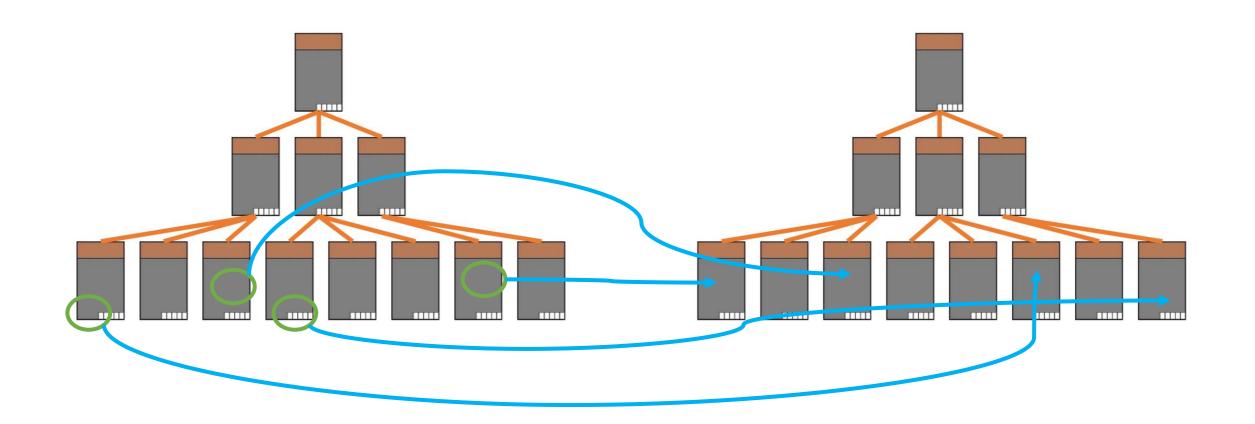
- Non-Clustered Indexes that DO NOT cover a query
- Will the Query Optimizer choose:

```
Seek + Lookup Op.
Or
Full Table Scan?
```

Decision threshold is called the Tipping Point

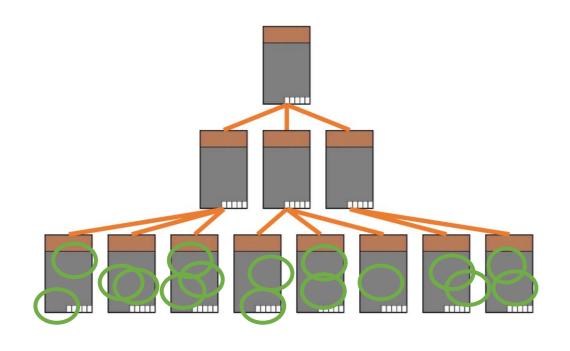
Non-Clustered Index

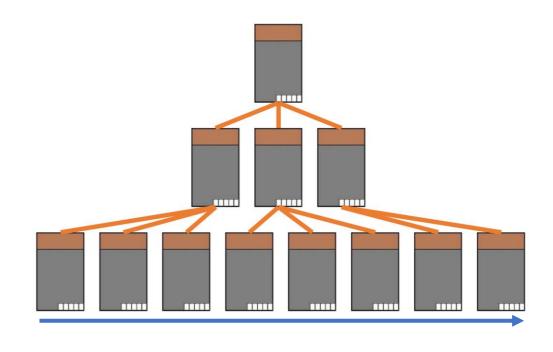
Clustered Index



Non-Clustered Index

Clustered Index





DEMO

Resources

Tipping Point Blogs

Kimberly Tripp

https://www.sqlskills.com/blogs/kimberly/category/the-tippingpoint/

Visualizing the Tipping Point with Plan Explorer

Greg Gonzalez

https://sqlperformance.com/2020/05/t-sql-queries/visualizing-the-tipping-point-with-plan-explorer

Thank you! Questions?

https://github.com/SQLBek

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