

# The Five Mistakes You are Probably Making with SQL Server

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# Who am I?

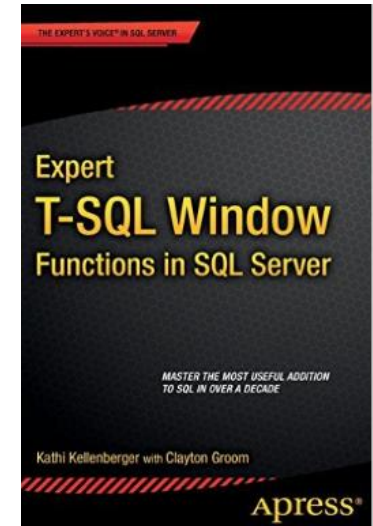
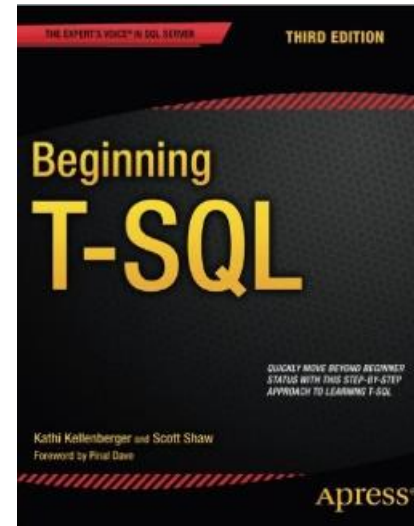
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Data Platform MVP

Trainer

Author

Consultant



# Agenda

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Configuration

Maintenance

Reusability

Index Strategy

SARGability

# Configuration

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# Configuration

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Memory

Parallelism

Ad hoc workloads

Database location

# Maintenance

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Maintenance  
Wizard

Easy  
Not flexible  
Better than no  
maintenance

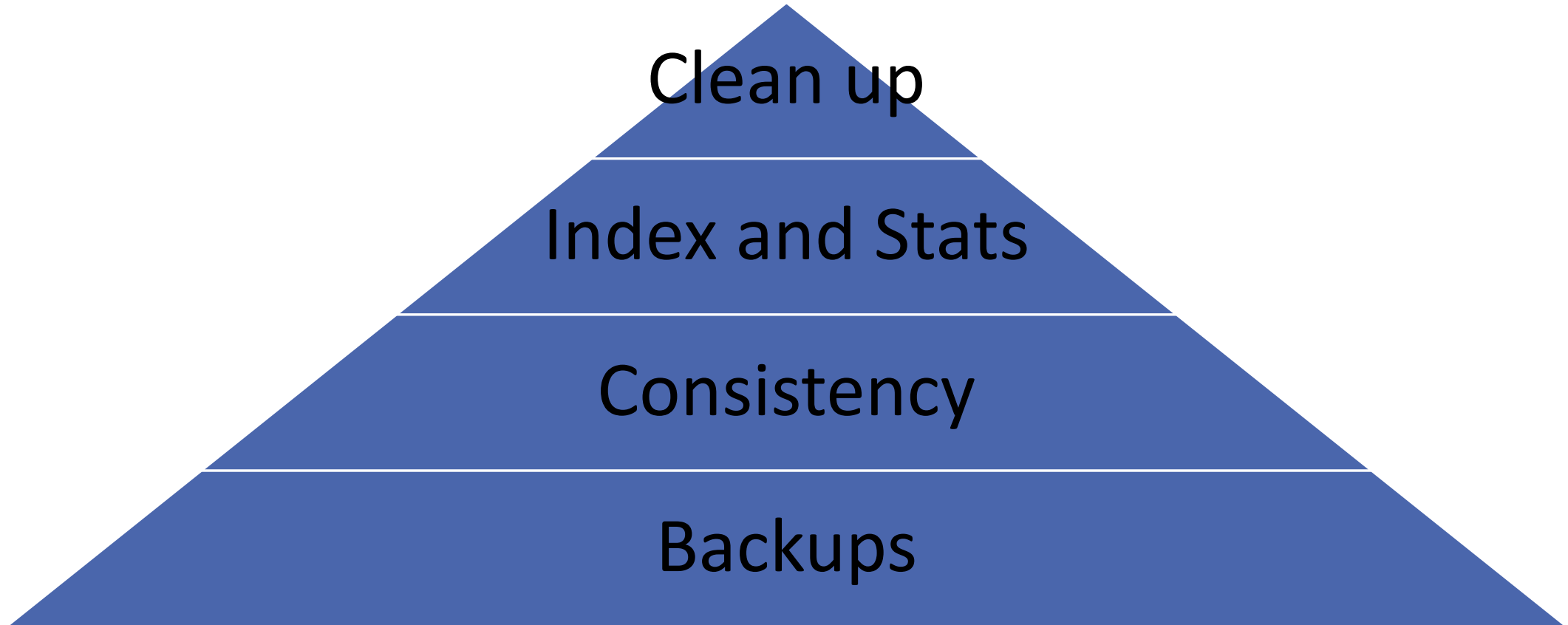
Scripts

Knowledge  
required  
Flexible  
Available on web

<https://ola.hallengren.com/>

# Maintenance

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# Reusability

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# Reusability

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## Avoid

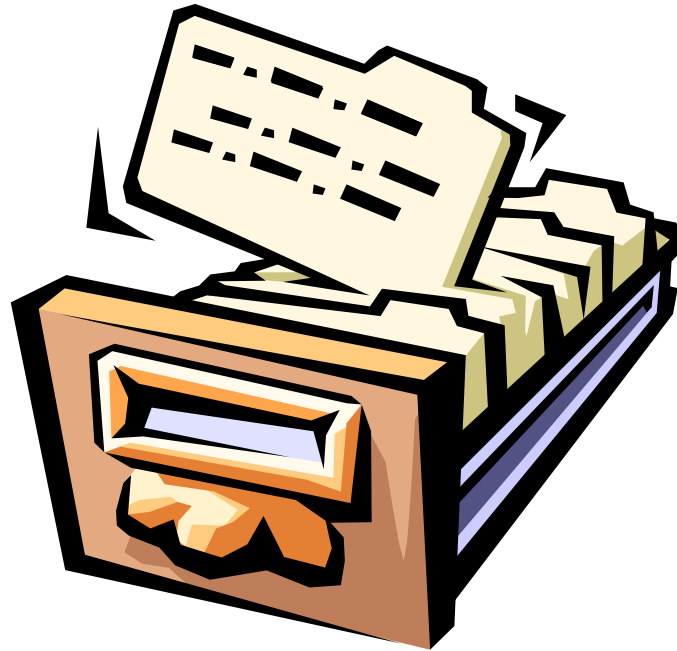
- Nested views
- Scaler and multi-line indexes that touch tables

## Do

- In-line table valued functions
- Stored procedures
- Temp tables

# Index Strategy

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# Index Strategy

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Don't blindly follow DTA or index suggestions

Avoid duplicate / overlapping indexes

Remove unneeded indexes

Avoid Key Lookups and Index Scans

# SARGability

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# SARGability

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## Avoid

- Functions on columns
- Implicit conversions
- Query on secondary column
- Scan

## Do

- Rewrite WHERE clause
- Query on first column
- Seek