



# **The Lifecycle Approach:** Database Maintenance Problems and Solutions

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# The Vanity Slide



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FREE INDEX MAINTENANCE



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SEAN



JEN

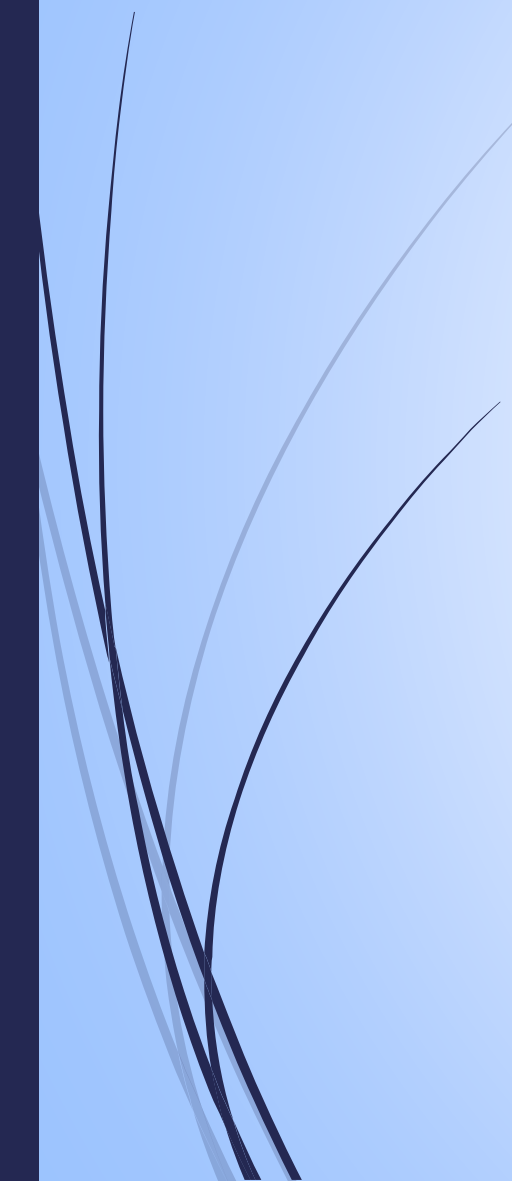


# Agenda

- ▶ 8:30 Session
- ▶ 10:00 Break
- ▶ 10:15 Session
- ▶ **12:30 Lunch**
- ▶ 1:30 Session
- ▶ 2:30 Break
- ▶ 2:45 Session
- ▶ 4:00 End of day



# Outline

- Enterprise philosophy
  - Backup Problems and Solutions
  - Index Maintenance Problems and Solutions
  - CheckDB Problems and Solutions
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# Enterprise Philosophy

- **The lifecycle approach**
  - Maintenance strategy
  - Problems with enterprise maintenance management
- 



# Backup Problems and Solutions



- Set the list of databases
- Back up important databases first
- Mirror, copy, move backups
- Automate backup tuning
- Manage log files
- Set up backups in HA scenarios
- Back up certificates
- Handle special situations
- Log activity
- Schedule backups



# Index Maintenance Problems and Solutions

- Change reorg/reindex thresholds
- Set custom thresholds for specific tables
- Maintain most important databases and tables first
- Exclude databases or tables from maintenance
- Maximize the maintenance window
- Speed up index maintenance
- Handle special situations
- Log activity
- Change scan mode
- Customize maintenance using dynamic criteria



# Database Integrity Problems and Solutions

- ▶ Dynamically choose CheckDB vs CheckTable
- ▶ Multi-thread operations
- ▶ Rotate through a list of databases
- ▶ Perform integrity checks on snapshots
- ▶ Log activity
- ▶ And, of course, more.





# Downloads

<http://MinionWare.net/DBMaintPrecon/>