

Vedrørende:	Tips omkring optimering af SQL Server ifm. dannelse af dimensionsanalyser
Fordeling:	Navision drift
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Version nr.:	1

Man kan opleve at dannelse af dimensionsanalyser kan tage lang tid, når man ønsker at danne grundlag for fordelinger, ved regnskabsårets afslutning.

Dette dokument vil gennemgå nogle ting, der kan gennemføres, som kan øge hastigheden af dannelse af dimensionsanalyser.

Der er to steps som kan gennemløbes:

1. Optimering af pladsudnyttelsen for tabeller i regnskabdatabasen – foretages fra Navision
2. Vedvarende dannelse af statistikker for at hjælpe SQL Serverens query optimizer, for at forbedre hastigheden af tilgang til data – foretages fra Enterprise Manager

Optimering af pladsudnyttelsen for tabeller i regnskabdatabasen – foretages fra Navision

Det er vigtigt at der ikke er andre brugere på Navision samtidig med at optimeringen foretages.

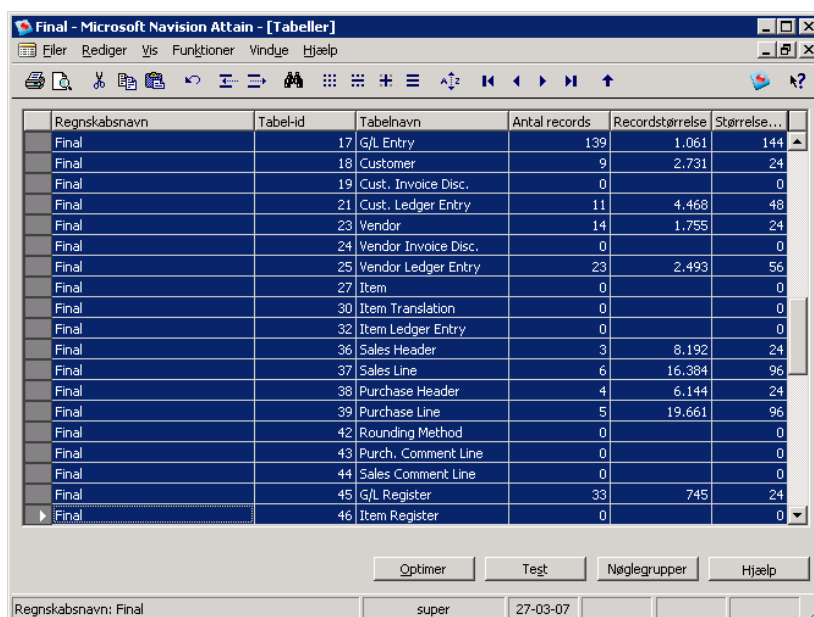
I menuen "Filer" / "Database" / "Oplysninger" findes et vindue, som ved tryk på funktionsknappen "Tabeller" giver adgang vinduet:

Regnskabsnavn	Tabel-id	Tabelnavn	Antal records	Recordstørrelse	Størrelse...
Final	17	G/L Entry	139	1.061	144
Final	18	Customer	9	2.731	24
Final	19	Cust. Invoice Disc.	0		0
Final	21	Cust. Ledger Entry	11	4.468	48
Final	23	Vendor	14	1.755	24
Final	24	Vendor Invoice Disc.	0		0
Final	25	Vendor Ledger Entry	23	2.493	56
Final	27	Item	0		0
Final	30	Item Translation	0		0
Final	32	Item Ledger Entry	0		0
Final	36	Sales Header	3	8.192	24
Final	37	Sales Line	6	16.384	96
Final	38	Purchase Header	4	6.144	24
Final	39	Purchase Line	5	19.661	96
Final	42	Rounding Method	0		0
Final	43	Purch. Comment Line	0		0
Final	44	Sales Comment Line	0		0
Final	45	G/L Register	33	745	24
Final	46	Item Register	0		0

Buttons: Optimer, Test, Nøglegrupper, Hjælp

Regnskabsnavn: Final super 27-03-07

Alle tabeller vælges med "Ctrl+A":

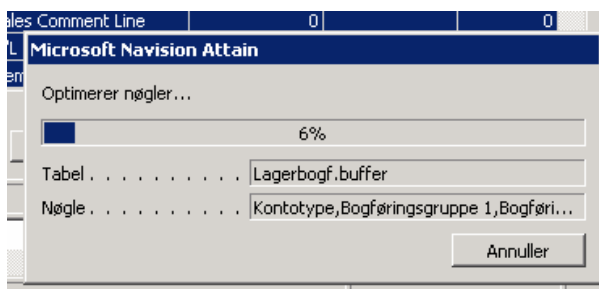


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Funktionen "Optimer" vælges:



Efter klik på "Yes" optimeres pladsudnyttelsen i tabellerne.



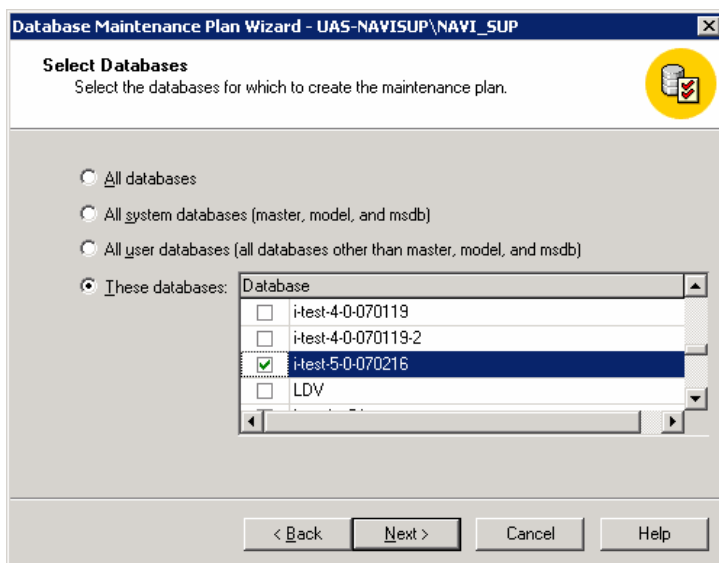
Vedvarende dannelse af statistikker for at hjælpe SQL Serverens query optimizer, for at forbedre hastigheden af tilgang til data – fortages fra Enterprise Manager

Jobbet bør scheduleres til at køre om natten – ikke samtidig med backup

I Enterprise Manager vælges at oprette en ny Maintenance plan:



Navision databasen vælges og der vælges Next:



Der gives nu adgang til at vælge "Update statistics used by query optimizer" med "Sample" på 10%; samtidig vælges scheduling:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Update Data Optimization Information
As data and index pages fill, updating requires more time. Reorganize your data and index pages to improve performance.

Reorganize data and index pages
 Reorganize pages with the original amount of free space
 Change free space per page percentage to: 10

Update statistics used by query optimizer. Sample: 10 % of the database

Remove unused space from database files
 When it grows beyond: 50 MB
 Amount of free space to remain after shrink: 10 % of the data space

Schedule: Occurs every 1 week(s) on Sunday, at 01:00:00. Change...

< Back Next > Cancel Help

Efter klik på Next tilvælges intet:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Database Integrity Check
Check database integrity to detect inconsistencies caused by hardware or software errors.

Check database integrity
 Include indexes
 Attempt to repair any minor problems
 Exclude indexes

Perform these checks before doing backups

Schedule: There are no operations to schedule. Change...

< Back Next > Cancel Help

Efter klik på Next fravælges ”Back up the database...”:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Specify the Database Backup Plan
Specify the database backup plan to prevent data loss due to system failure.

Back up the database as part of the maintenance plan
 Verify the integrity of the backup when complete

Location to store the backup file:
 Tape:
 Disk

Schedule: There are no operations to schedule. Change...

< Back Next > Cancel Help

Efter klik på Next fravælges ”Back up the transactions log...”:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Specify the Transaction Log Backup Plan
Specify the transaction log backup plan to prevent failures and operator errors.

Back up the transaction log as part of the maintenance plan

Verify the integrity of the backup when complete

Location to store the backup file:

Tape:

Disk

Schedule:

There are no operations to schedule.

Efter klik på Next tilvælges eventuelt, at der skrives en logfil om forløbet:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Reports to Generate
Specify the directory in which to store the reports generated by the maintenance plan.

Write report to a text file in directory: ...

Delete text report files older than:

Send e-mail report to operator: ...

Efter klik på Next vælges eventuelt at historik skrives til msdb databasen:

Database Maintenance Plan Wizard - UAS-NAVISUP\NAVI_SUP

Maintenance Plan History
Specify how you want to store the maintenance plan records.

Local server

Write history to the msdb.dbo.sysdbmaintplan_history table on this server

Limit rows in the table to: rows for this plan

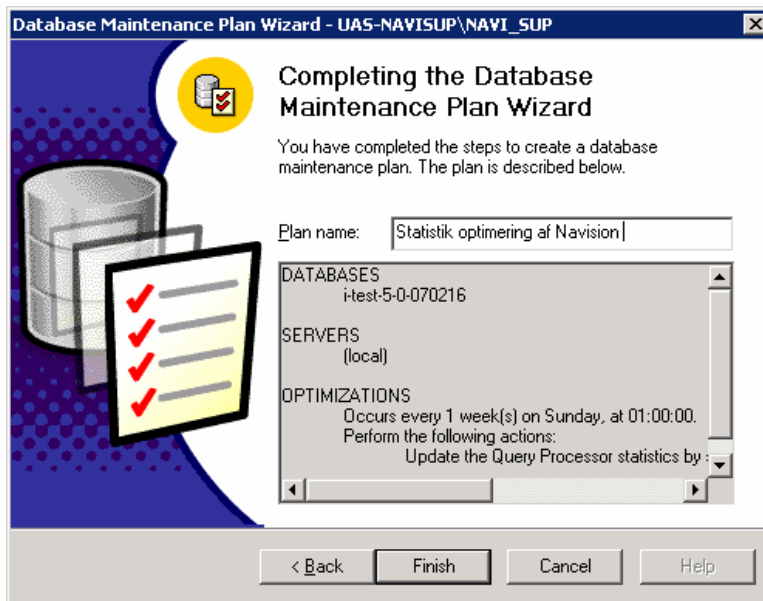
Remote server

History is added to the msdb.dbo.sysdbmaintplan_history table on the remote server.
Windows Authentication is used to log on to the remote server.

Write history to the server: ...

Limit rows in the table to: rows for this plan

Efter klik på Next rettes ”Plan name”:



Efter klik på Finish, kan jobbet inspicereres i SQL Agentens joboversigt:

