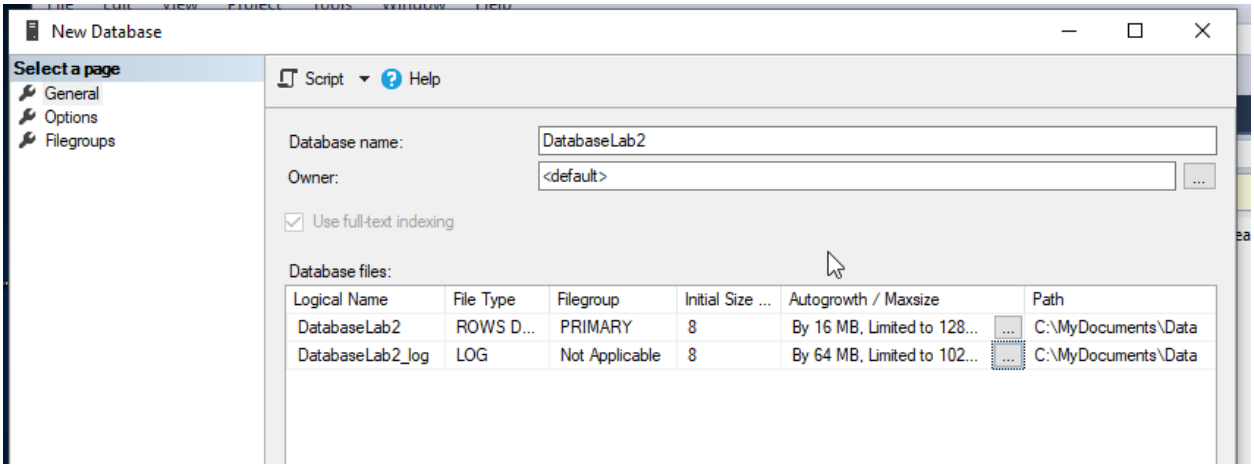
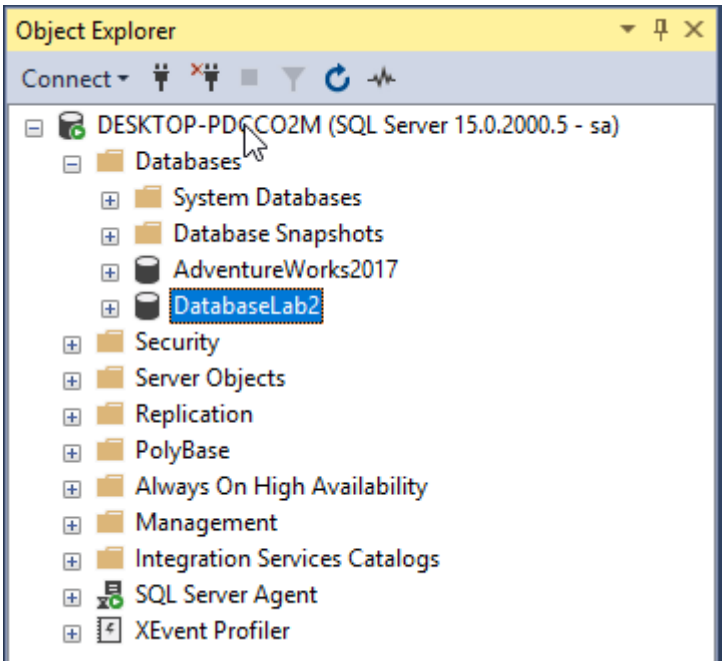
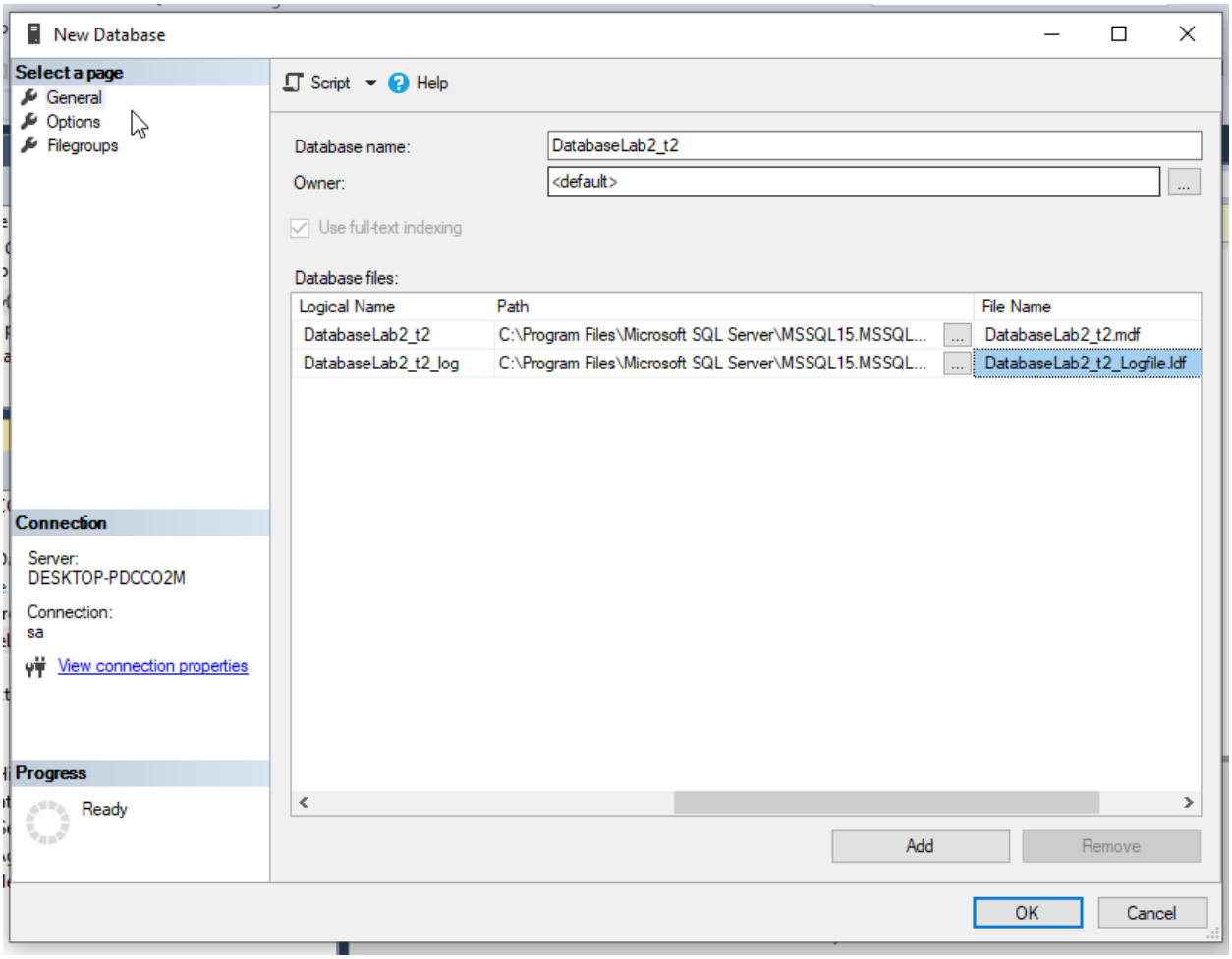
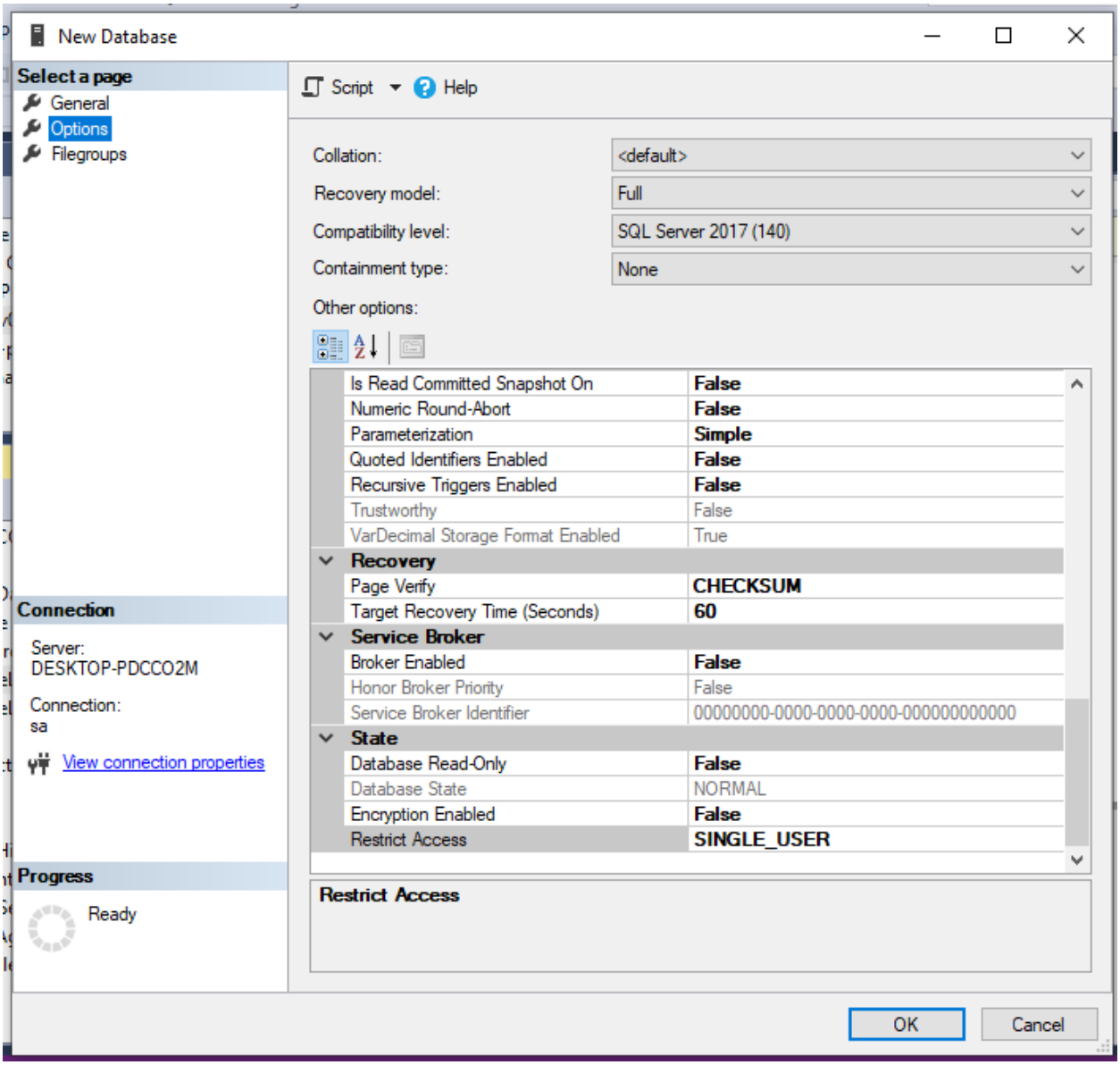
Task 1:

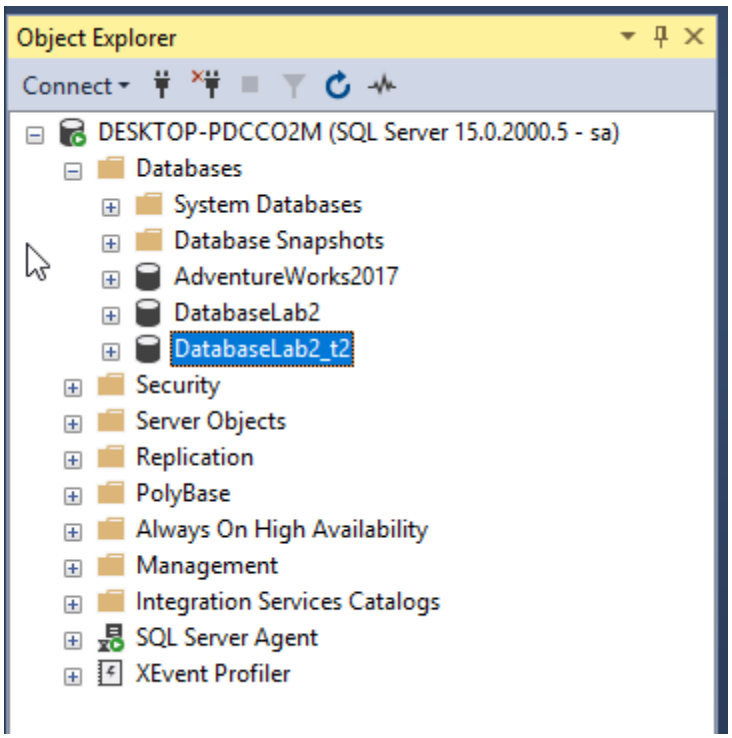

New Database
Select a page
General
Options
Filegroups
Script
Help
Database name:
DatabaseLab2
Owner:
<default>
Use full-text indexing
Database files:
Logical Name
File Type
Filegroup
Initial Size ...
Autogrowth / Maxsize
Path
DatabaseLab2
ROWS D...
PRIMARY
8
By 16 MB, Limited to 128...
C:\MyDocuments\Data
DatabaseLab2_log
LOG
Not Applicable
8
By 64 MB, Limited to 102...
C:\MyDocuments\Data


Object Explorer
Connect
DESKTOP-PDCCO2M (SQL Server 15.0.2000.5 - sa)
Databases
System Databases
Database Snapshots
AdventureWorks2017
DatabaseLab2
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent
XEvent Profiler

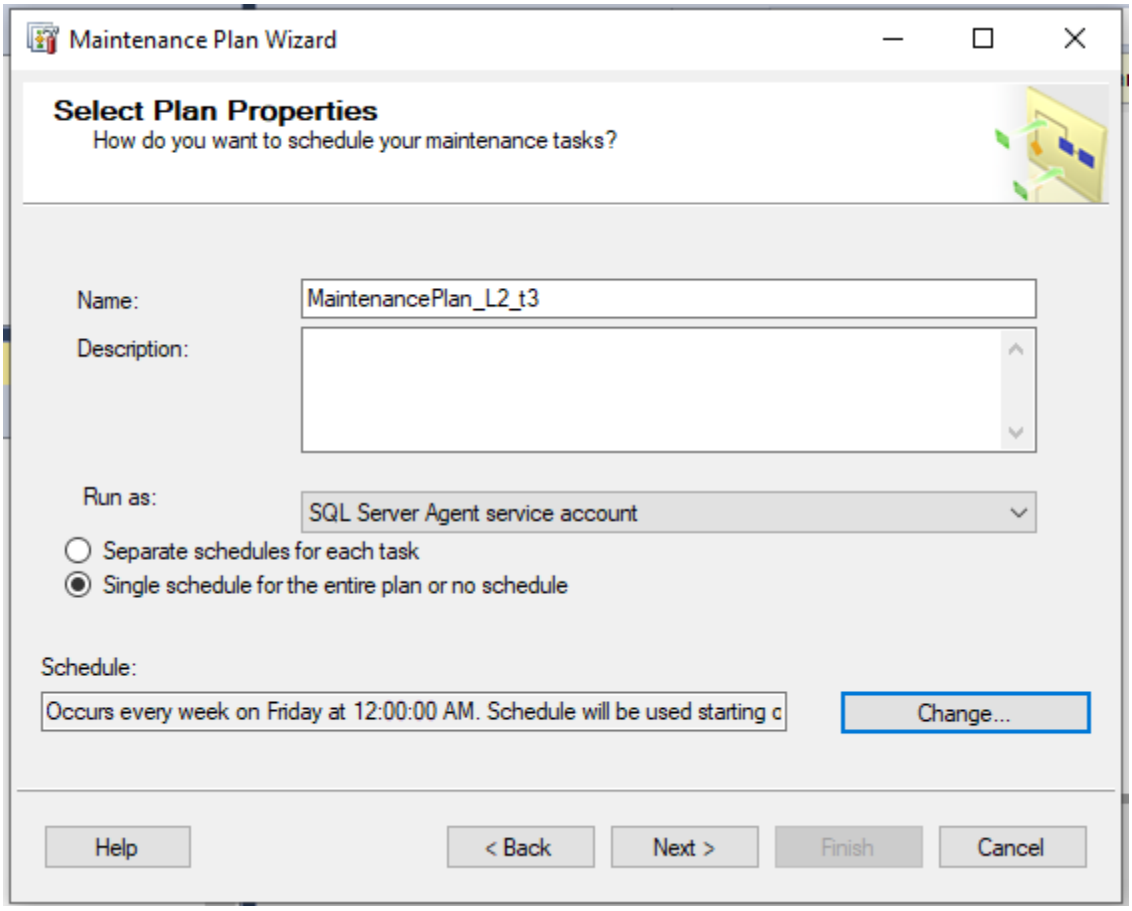
Task 2:

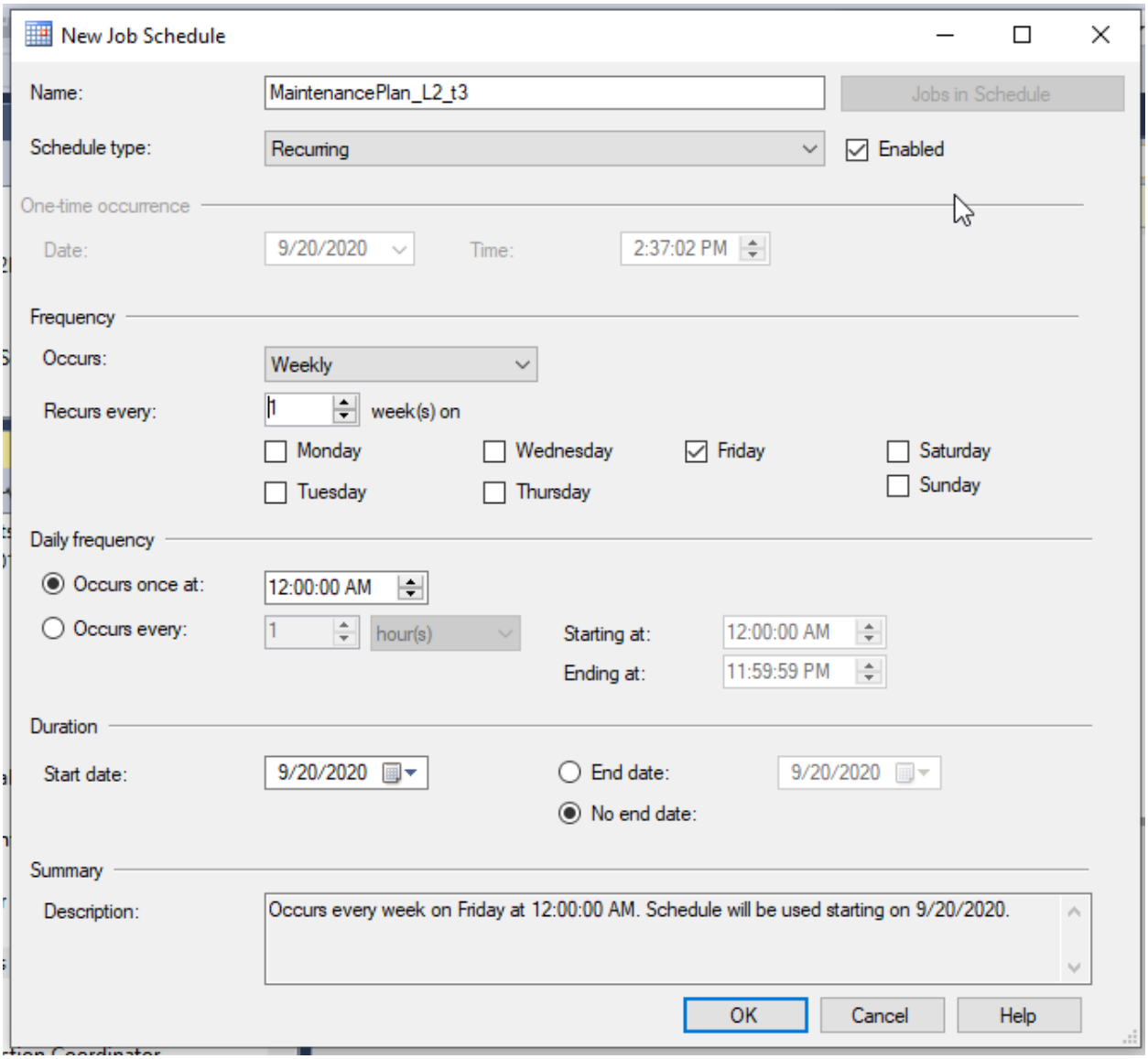

New Database
Select a page
General
Options
Filegroups
Script
Help
Database name:
DatabaseLab2_t2
Owner:
<default>
Use full-text indexing
Database files:
Logical Name
Path
File Name
DatabaseLab2_t2
C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQL...
DatabaseLab2_t2.mdf
DatabaseLab2_t2_log
C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQL...
DatabaseLab2_t2_Logfile.ldf
Add
Remove
Connection
Server:
DESKTOP-PDCCO2M
Connection:
sa
View connection properties
Progress
Ready
OK
Cancel

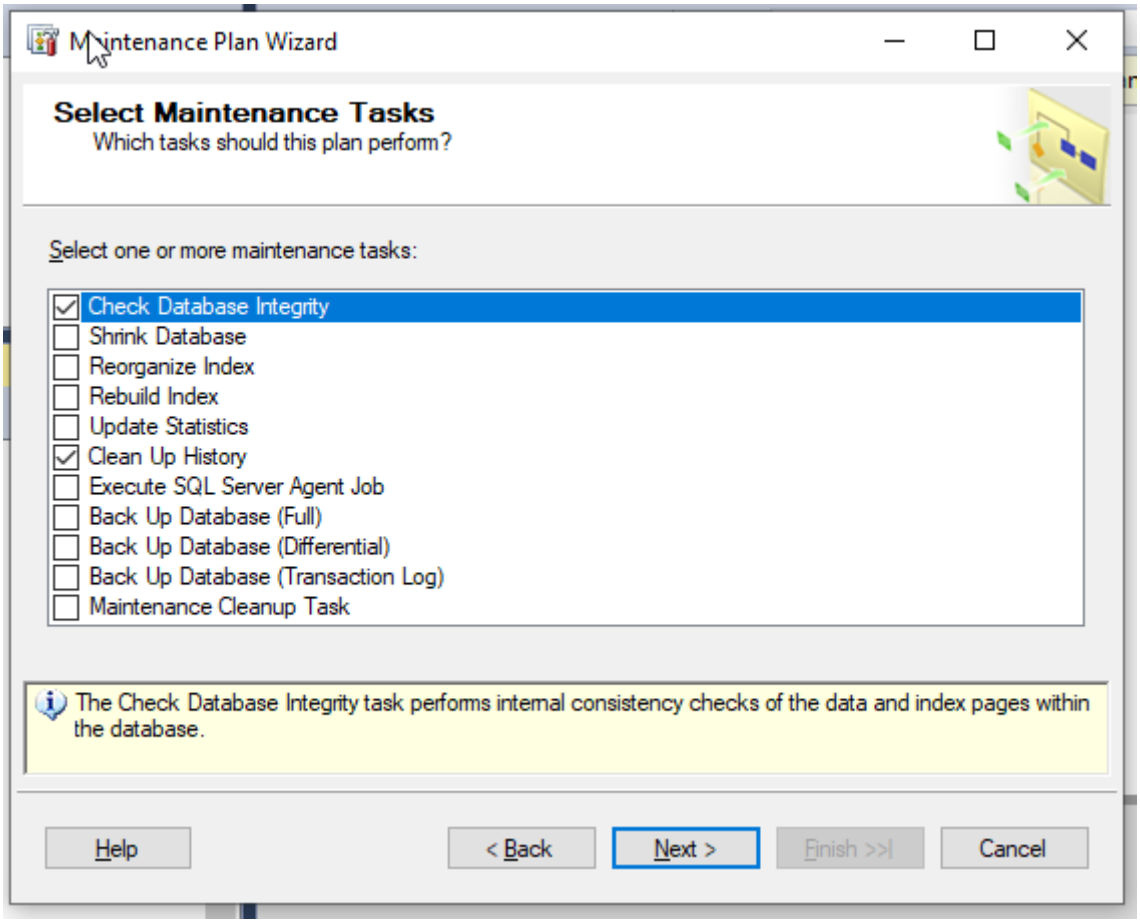

New Database
Select a page
General
Options
Filegroups
Script
Help
Collation:
<default>
Recovery model:
Full
Compatibility level:
SQL Server 2017 (140)
Containment type:
None
Other options:
Is Read Committed Snapshot On
False
Numeric Round-Abort
False
Parameterization
Simple
Quoted Identifiers Enabled
False
Recursive Triggers Enabled
False
Trustworthy
False
VarDecimal Storage Format Enabled
True
Recovery
Page Verify
CHECKSUM
Target Recovery Time (Seconds)
60
Service Broker
Broker Enabled
False
Honor Broker Priority
False
Service Broker Identifier
00000000-0000-0000-0000-000000000000
State
Database Read-Only
False
Database State
NORMAL
Encryption Enabled
False
Restrict Access
SINGLE_USER
Restrict Access
Connection
Server:
DESKTOP-PDCCO2M
Connection:
sa
View connection properties
Progress
Ready
OK
Cancel

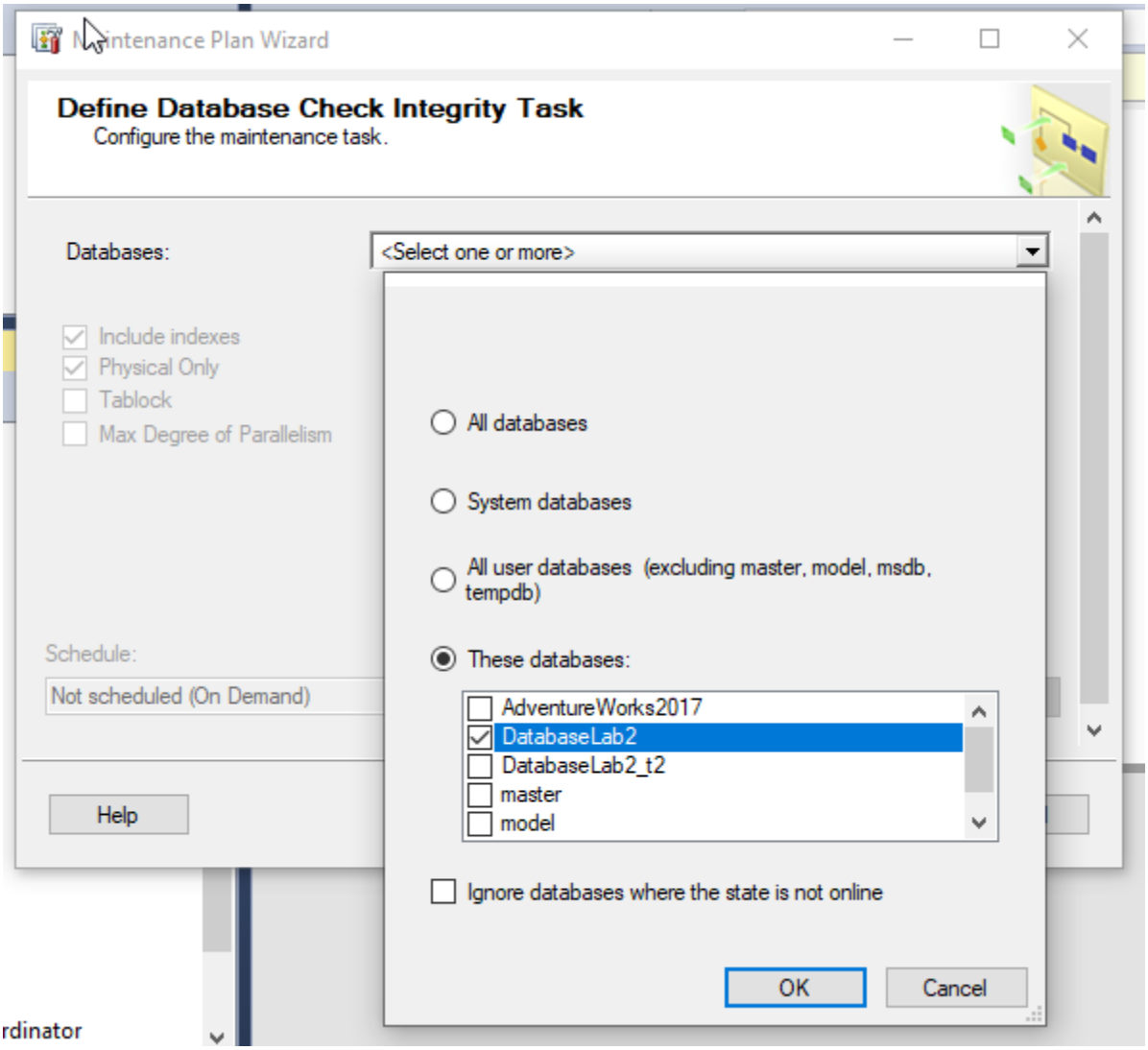

Object Explorer
Connect
DESKTOP-PDCCO2M (SQL Server 15.0.2000.5 - sa)
Databases
System Databases
Database Snapshots
AdventureWorks2017
DatabaseLab2
DatabaseLab2_t2
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent
XEvent Profiler

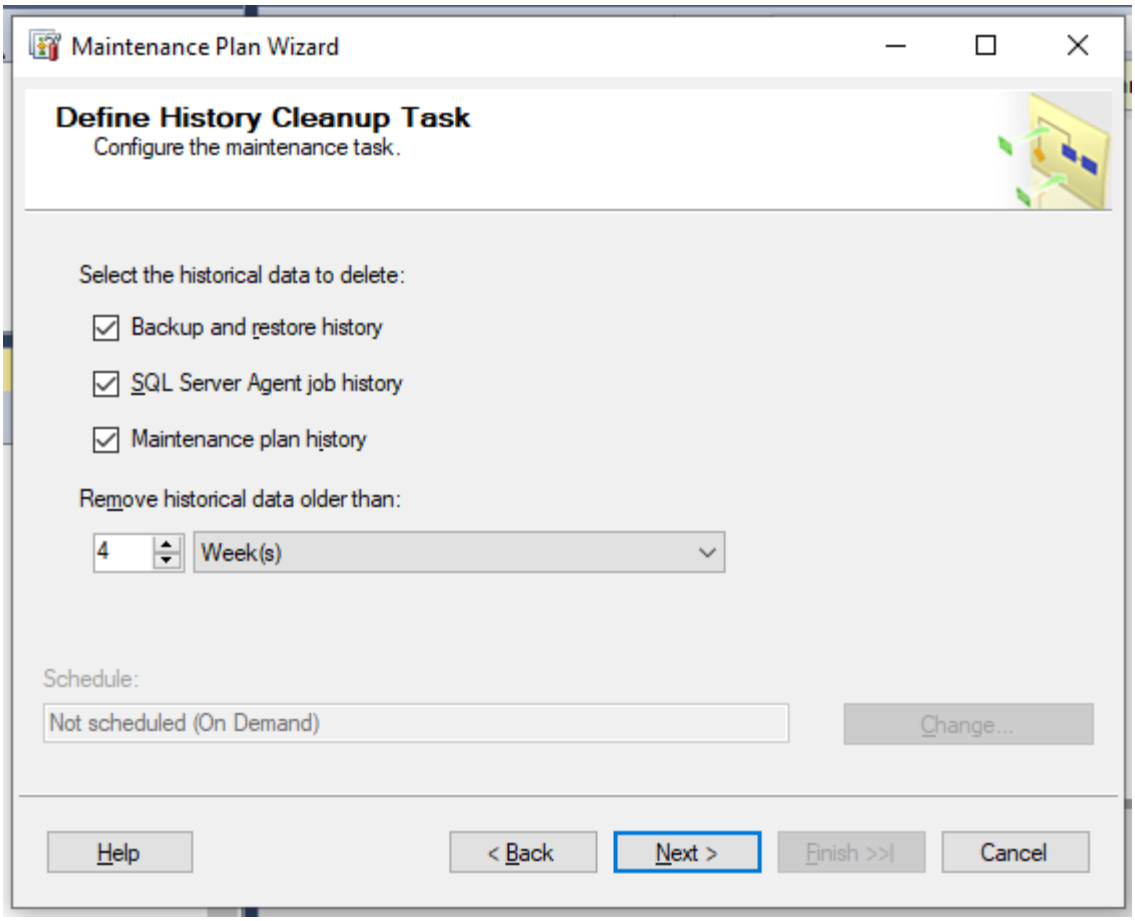
Task 3:

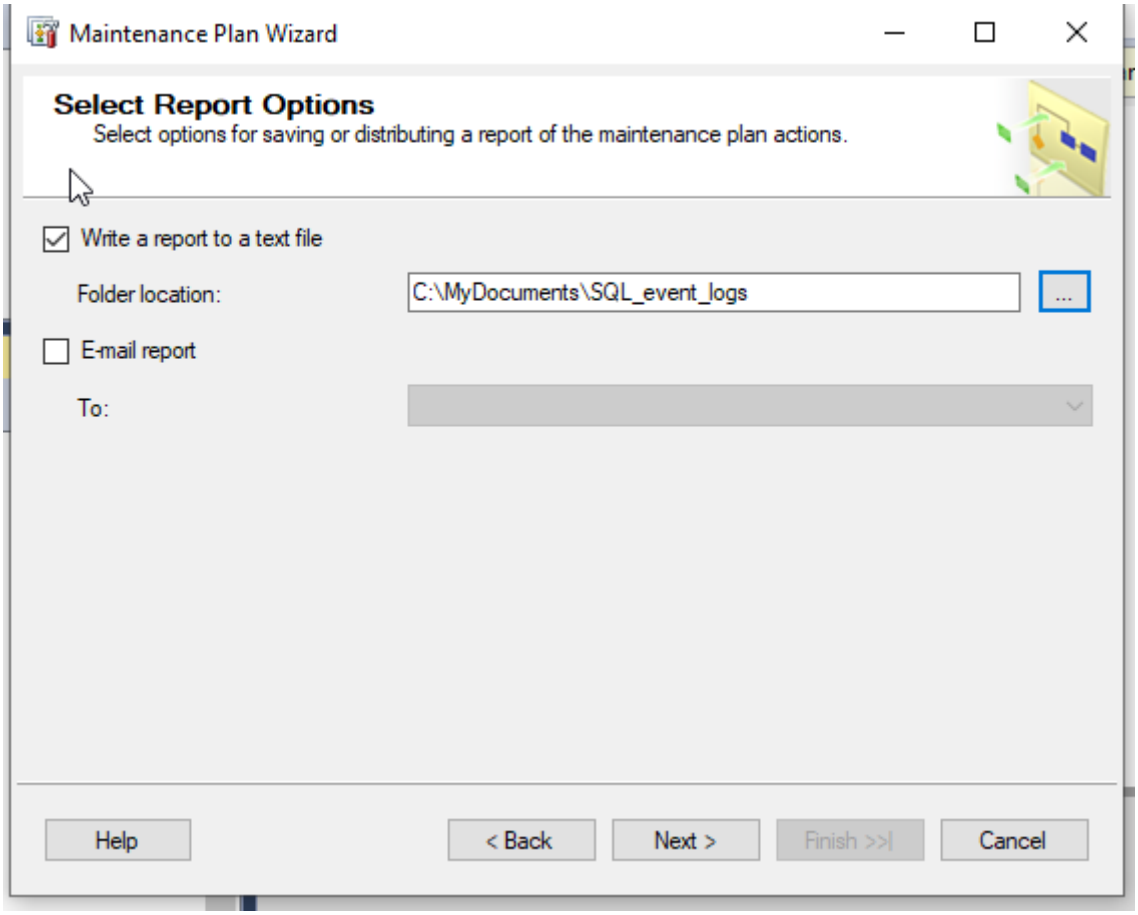

Maintenance Plan Wizard
Select Plan Properties
How do you want to schedule your maintenance tasks?
Name:
MaintenancePlan_L2_t3
Description:
Run as:
SQL Server Agent service account
Separate schedules for each task
Single schedule for the entire plan or no schedule
Schedule:
Occurs every week on Friday at 12:00:00 AM. Schedule will be used starting c
Change...
Help
< Back
Next >
Finish
Cancel

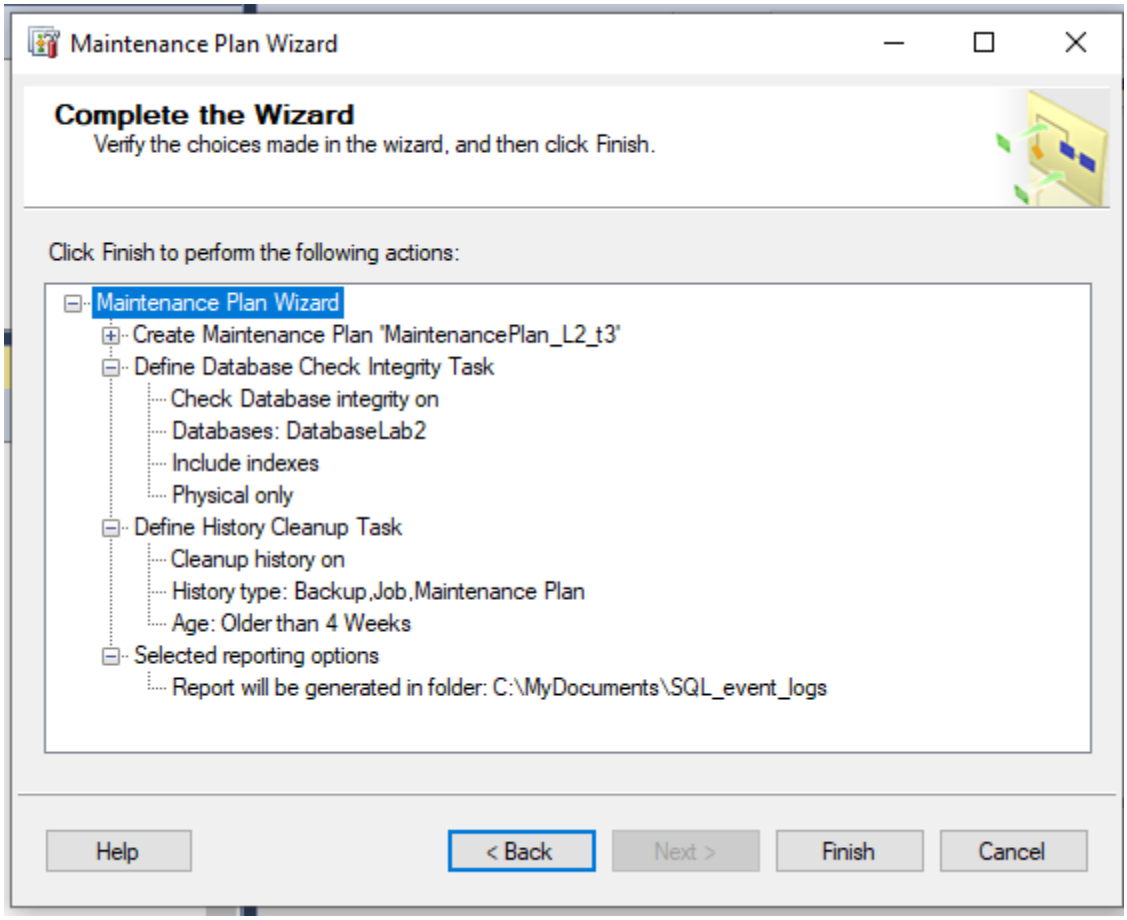

New Job Schedule
Name:
MaintenancePlan_L2_t3
Jobs in Schedule
Schedule type:
Recurring
Enabled
One-time occurrence
Date:
9/20/2020
Time:
2:37:02 PM
Frequency
Occurs:
Weekly
Recurs every:
1
week(s) on
Monday
Wednesday
Friday
Saturday
Tuesday
Thursday
Sunday
Daily frequency
Occurs once at:
12:00:00 AM
Occurs every:
1
hour(s)
Starting at:
12:00:00 AM
Ending at:
11:59:59 PM
Duration
Start date:
9/20/2020
End date:
9/20/2020
No end date:
Summary
Description:
Occurs every week on Friday at 12:00:00 AM. Schedule will be used starting on 9/20/2020.
OK
Cancel
Help

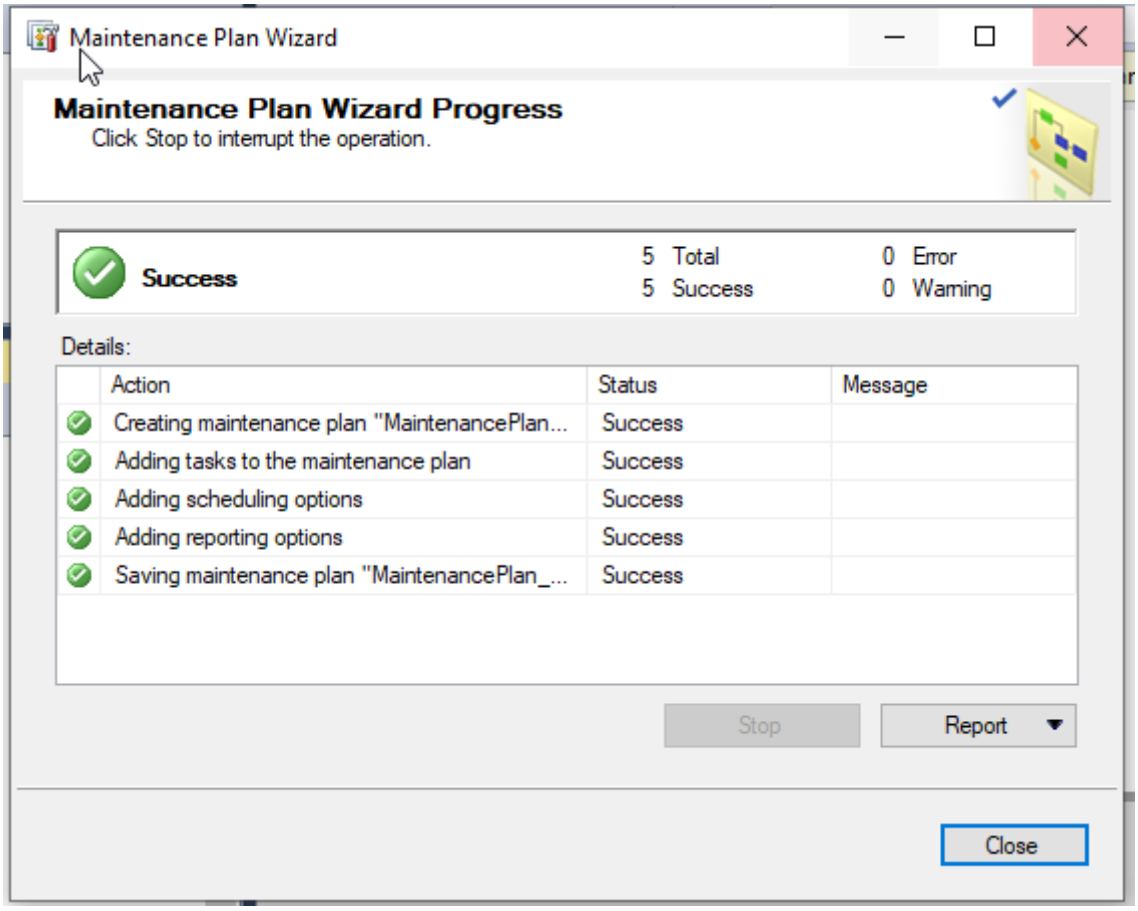

Maintenance Plan Wizard
Select Maintenance Tasks
Which tasks should this plan perform?
Select one or more maintenance tasks:
Check Database Integrity
Shrink Database
Reorganize Index
Rebuild Index
Update Statistics
Clean Up History
Execute SQL Server Agent Job
Back Up Database (Full)
Back Up Database (Differential)
Back Up Database (Transaction Log)
Maintenance Cleanup Task
The Check Database Integrity task performs internal consistency checks of the data and index pages within the database.
Help
< Back
Next >
Finish >>|
Cancel

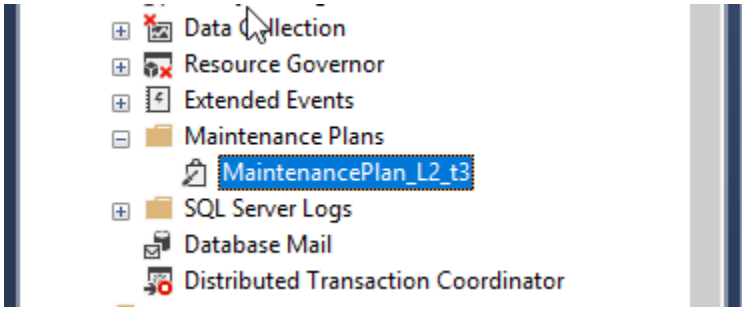

Maintenance Plan Wizard
Define Database Check Integrity Task
Configure the maintenance task.
Databases:
<Select one or more>
Include indexes
Physical Only
Tablock
Max Degree of Parallelism
Schedule:
Not scheduled (On Demand)
Help
All databases
System databases
All user databases (excluding master, model, msdb, tempdb)
These databases:
AdventureWorks2017
DatabaseLab2
DatabaseLab2_t2
master
model
Ignore databases where the state is not online
OK
Cancel
rdinator

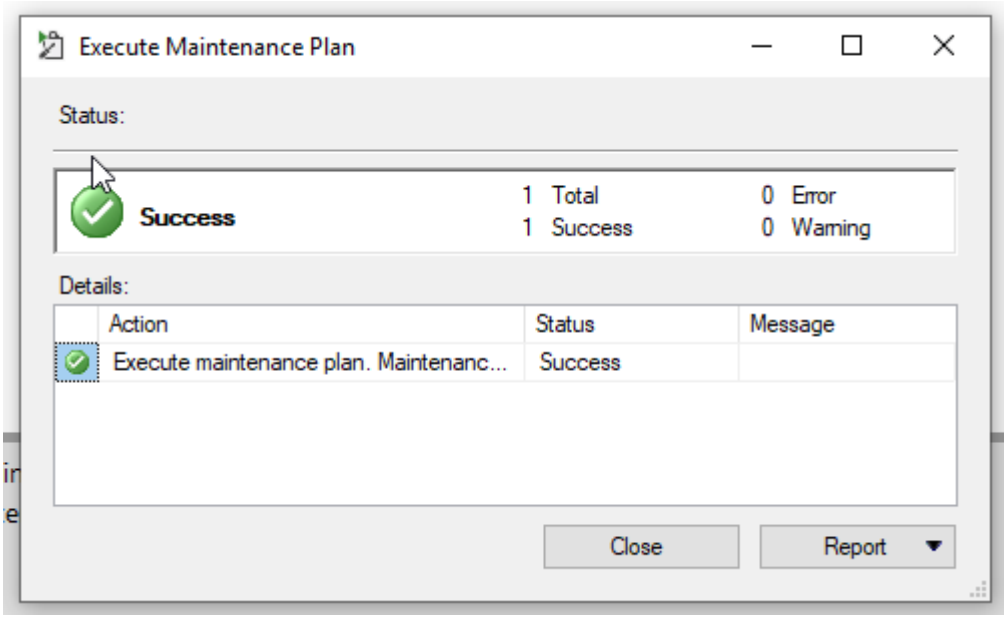

Maintenance Plan Wizard
Define History Cleanup Task
Configure the maintenance task.
Select the historical data to delete:
Backup and restore history
SQL Server Agent job history
Maintenance plan history
Remove historical data older than:
4
Week(s)
Schedule:
Not scheduled (On Demand)
Change...
Help
< Back
Next >
Finish >>|
Cancel


Maintenance Plan Wizard
Select Report Options
Select options for saving or distributing a report of the maintenance plan actions.
Write a report to a text file
Folder location:
C:\MyDocuments\SQL_event_logs
...
E-mail report
To:
Help
< Back
Next >
Finish >>|
Cancel


Maintenance Plan Wizard
Complete the Wizard
Verify the choices made in the wizard, and then click Finish.
Click Finish to perform the following actions:
Maintenance Plan Wizard
Create Maintenance Plan 'MaintenancePlan_L2_t3'
Define Database Check Integrity Task
Check Database integrity on
Databases: DatabaseLab2
Include indexes
Physical only
Define History Cleanup Task
Cleanup history on
History type: Backup,Job,Maintenance Plan
Age: Older than 4 Weeks
Selected reporting options
Report will be generated in folder: C:\MyDocuments\SQL_event_logs
Help
< Back
Next >
Finish
Cancel


Maintenance Plan Wizard
Maintenance Plan Wizard Progress
Click Stop to interrupt the operation.
Success
5 Total
5 Success
0 Error
0 Warning
Details:
Action
Status
Message
Creating maintenance plan "MaintenancePlan...
Success
Adding tasks to the maintenance plan
Success
Adding scheduling options
Success
Adding reporting options
Success
Saving maintenance plan "MaintenancePlan_...
Success
Stop
Report
Close


Data Collection
Resource Governor
Extended Events
Maintenance Plans
MaintenancePlan_L2_t3
SQL Server Logs
Database Mail
Distributed Transaction Coordinator

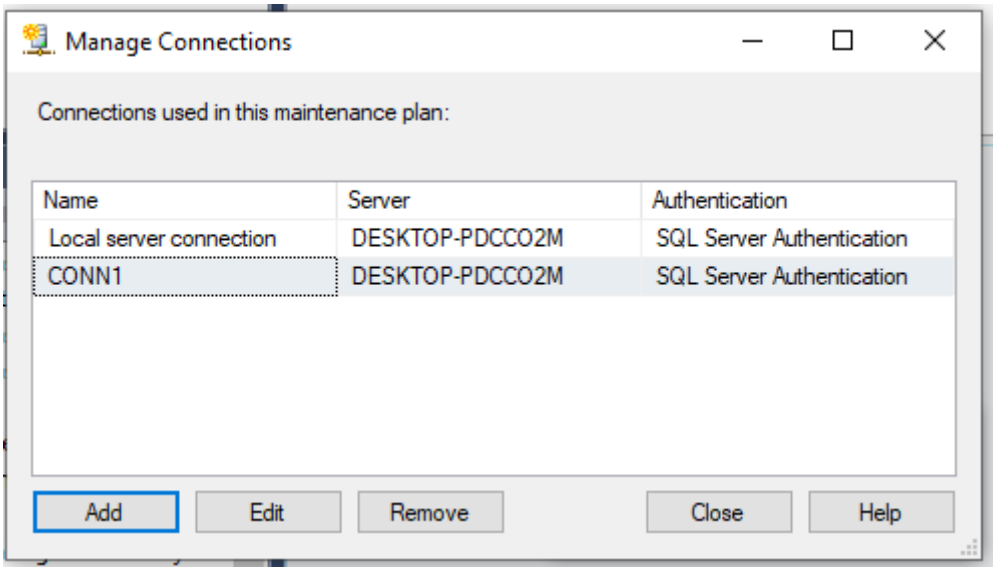


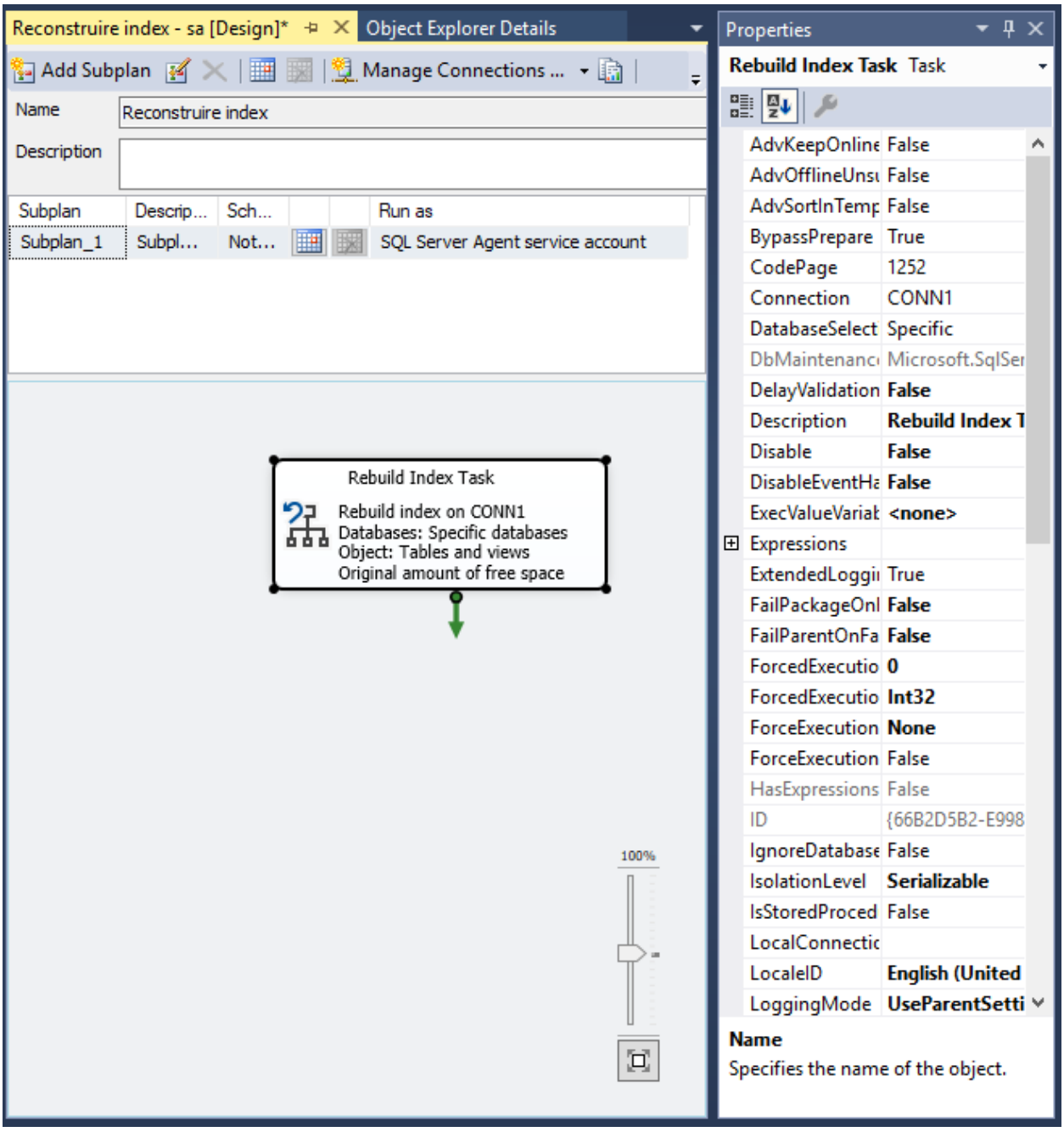
MaintenancePlan_L2_t3_Subplan_1_20200920145102 - Notepad

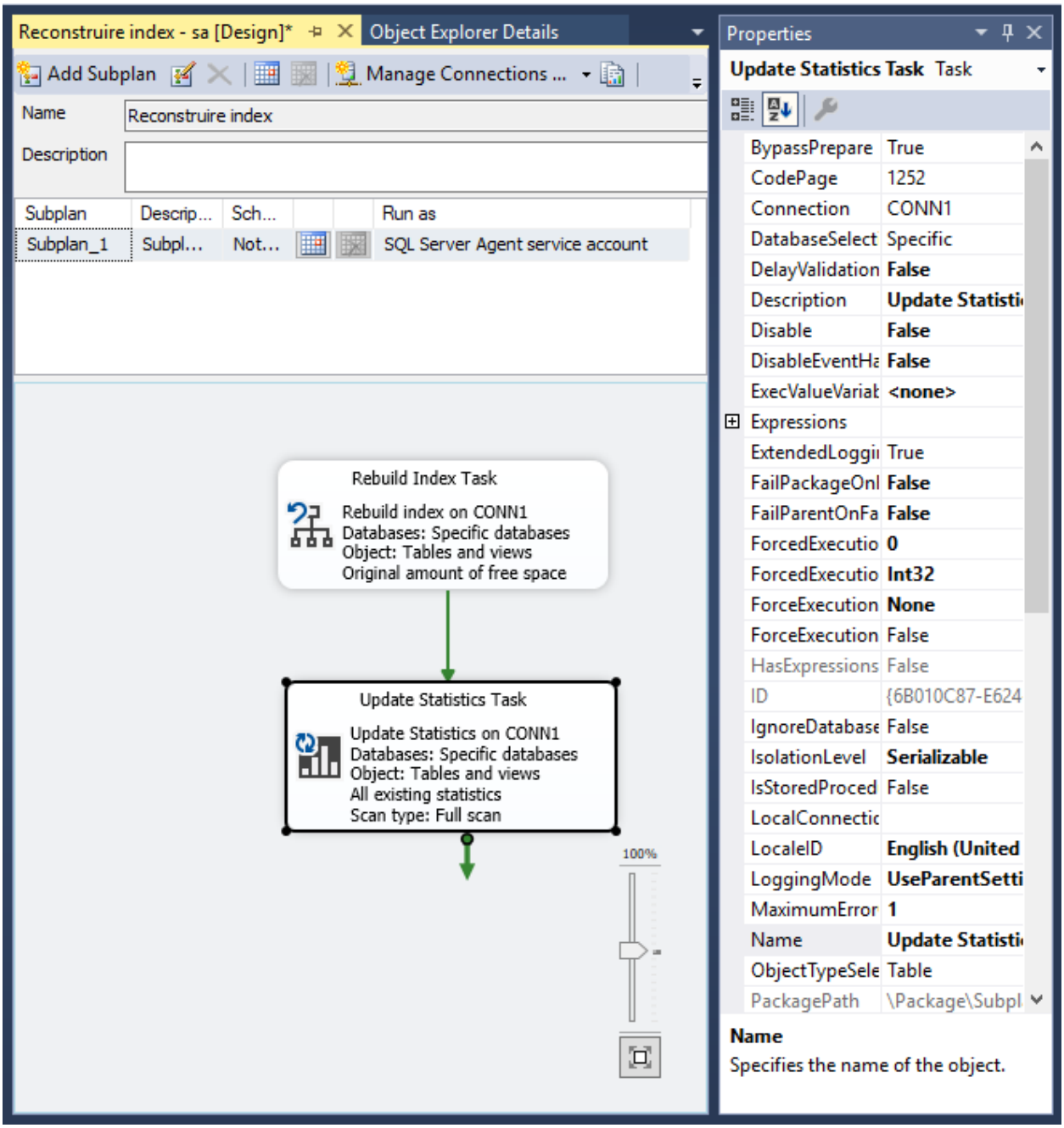
File Edit Format View Help

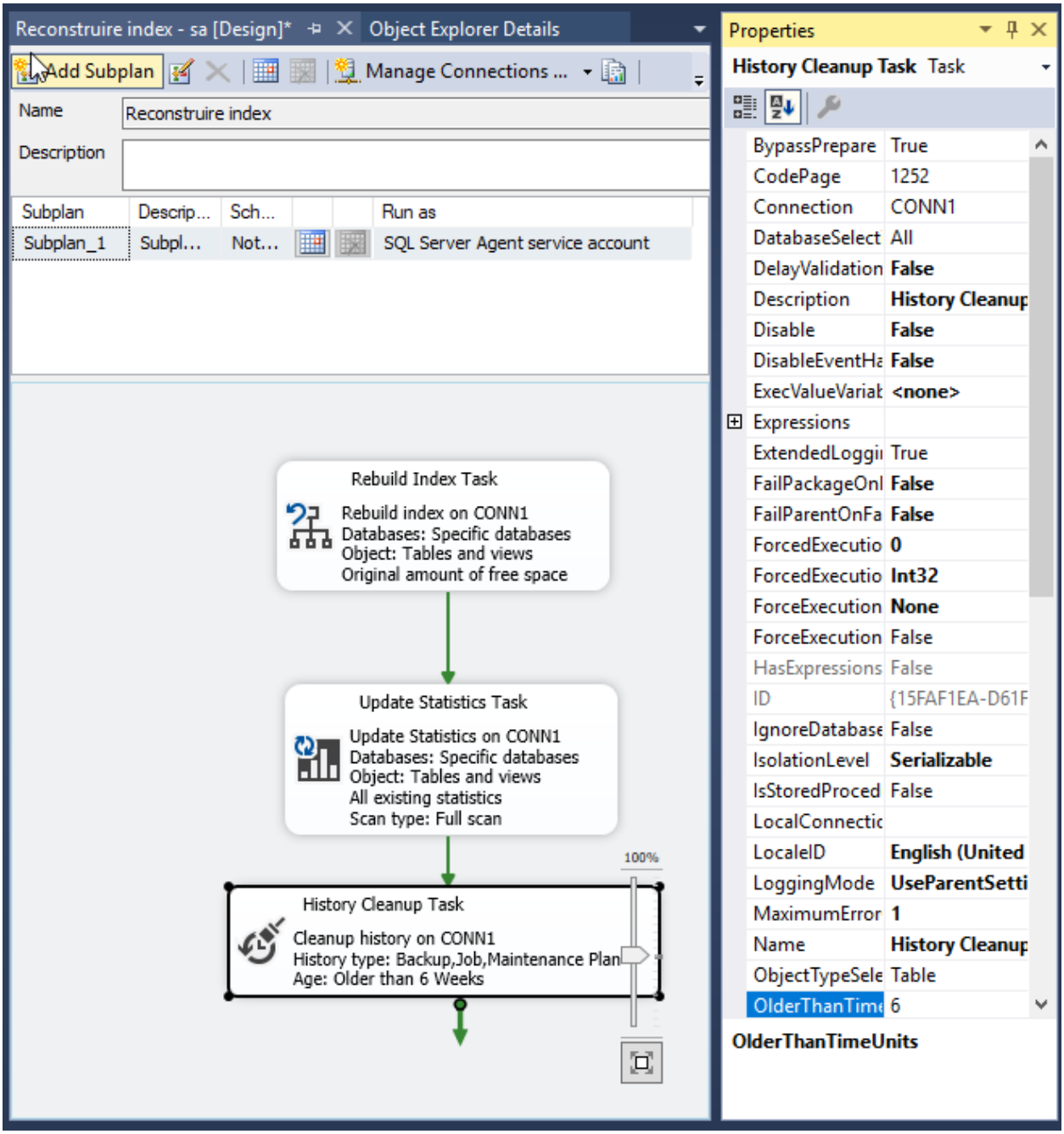
```
Microsoft(R) Server Maintenance Utility (Unicode) Version 15.0.2000
Report was generated on "DESKTOP-PDCCO2M".
Maintenance Plan: MaintenancePlan_L2_t3
Duration: 00:00:02
Status: Succeeded.
Details:
Check Database Integrity (DESKTOP-PDCCO2M)
Check Database integrity on Local server connection
Databases: DatabaseLab2
Include indexes
Physical only
Task start: 2020-09-20T14:51:02.
Task end: 2020-09-20T14:51:02.
Success
Command:USE [DatabaseLab2]
GO
DBCC CHECKDB(N''DatabaseLab2'')  WITH  PHYSICAL_ONLY

GO


Clean Up History (DESKTOP-PDCCO2M)
Cleanup history on Local server connection
History type: Backup,Job,Maintenance Plan
Age: Older than 4 Weeks
Task start: 2020-09-20T14:51:02.
Task end: 2020-09-20T14:51:02.
Success
Command:declare @dt datetime select @dt = cast(N''2020-08-23T14:51:02'' as datetime) exec msdb.dbo.sp_delete_backuphistory @dt
GO
EXEC msdb.dbo.sp_purge_jobhistory  @oldest_date=''2020-08-23T14:51:02''
GO
EXECUTE msdb..sp_maintplan_delete_log null,null,''2020-08-23T14:51:02''

GO
```

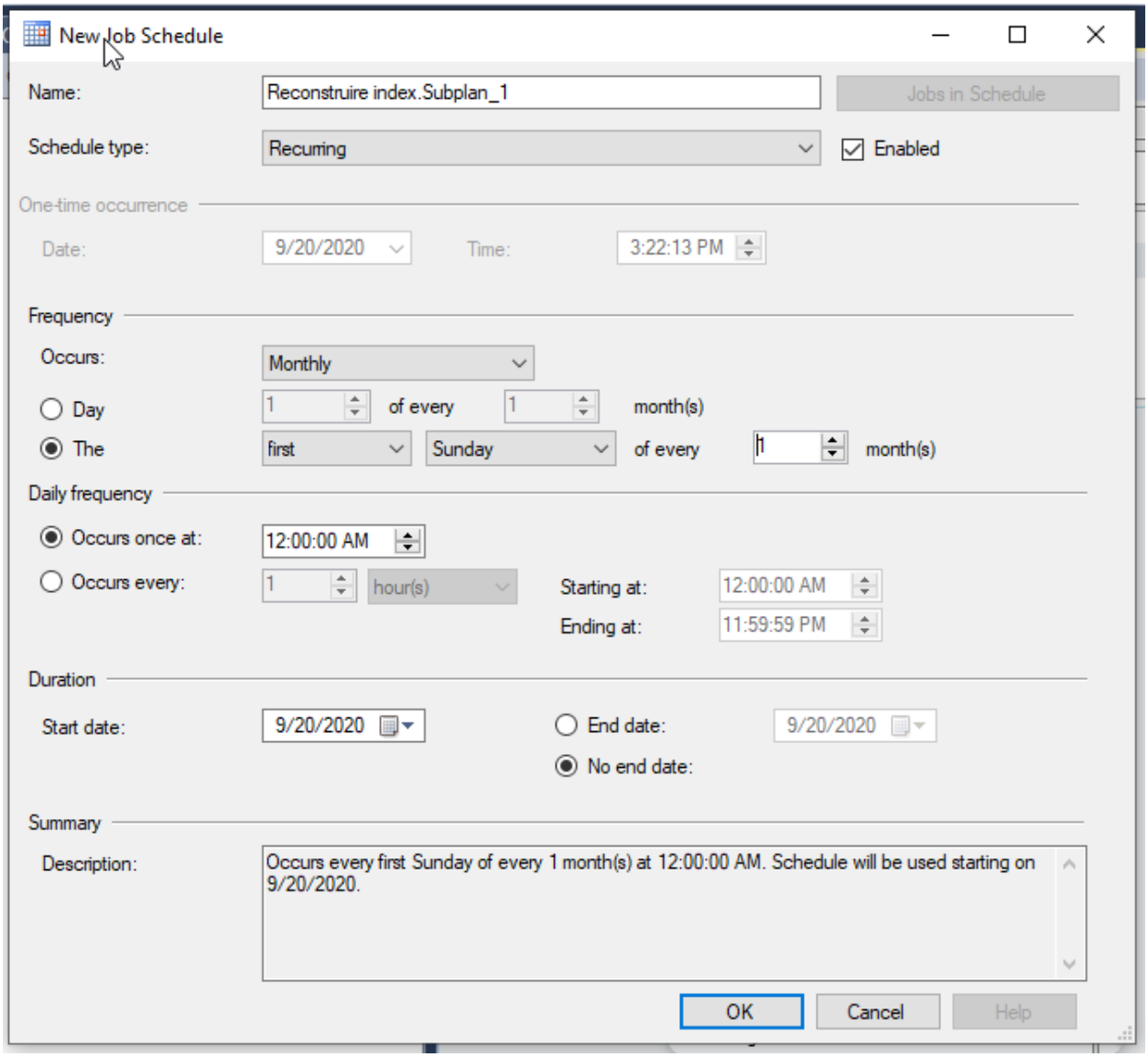
Task 4:

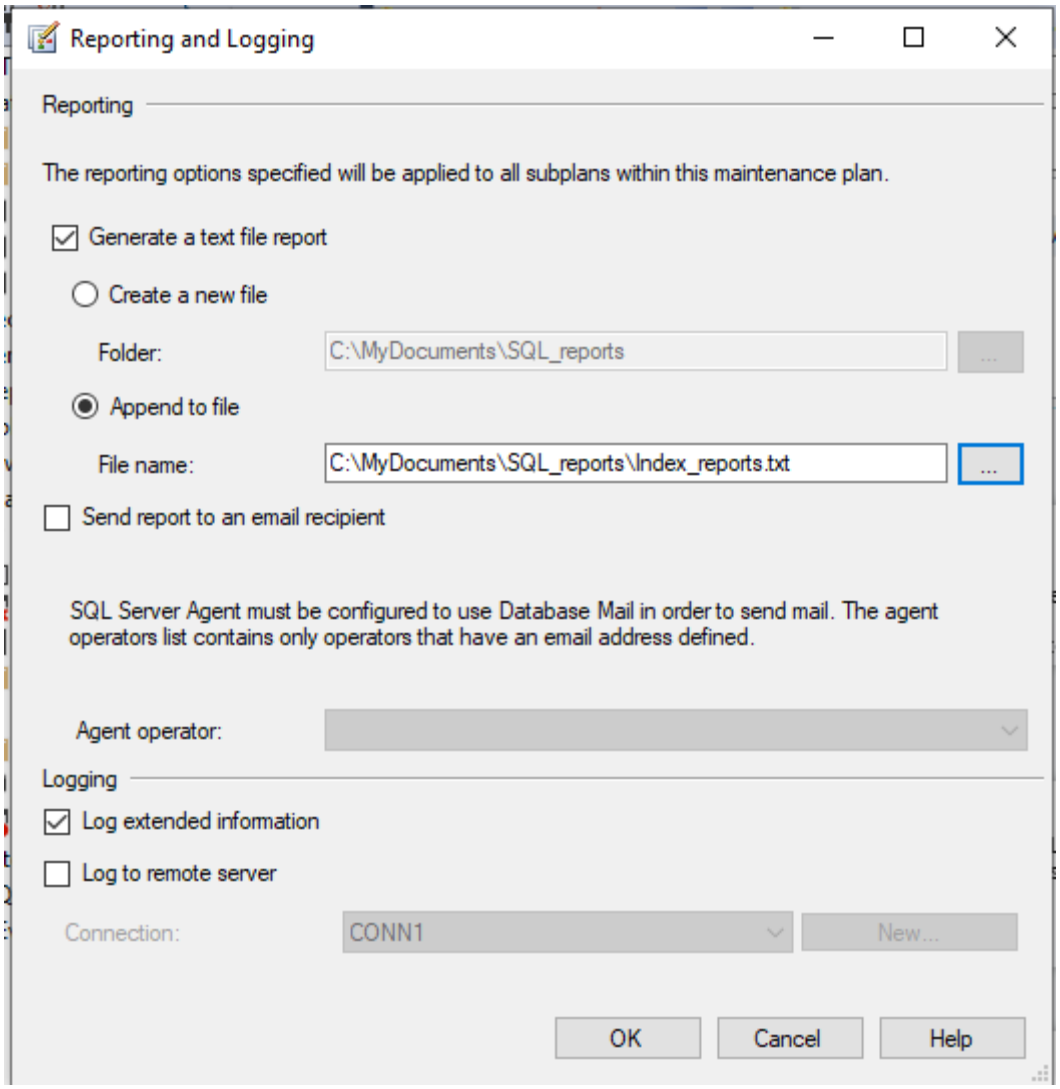

Manage Connections
Connections used in this maintenance plan:
Name
Server
Authentication
Local server connection
DESKTOP-PDCCO2M
SQL Server Authentication
CONN1
DESKTOP-PDCCO2M
SQL Server Authentication
Add
Edit
Remove
Close
Help

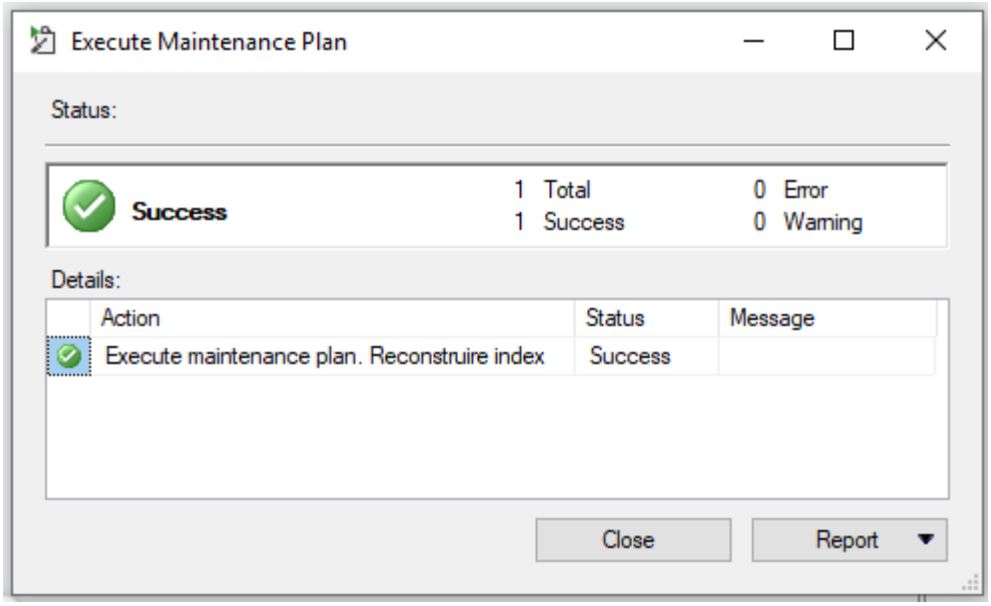

Reconstruire index - sa [Design]*
Object Explorer Details
Add Subplan
Manage Connections ...
Name
Reconstruire index
Description
Subplan
Descrip...
Sch...
Run as
Subplan_1
Subpl...
Not...
SQL Server Agent service account
Rebuild Index Task
Rebuild index on CONN1
Databases: Specific databases
Object: Tables and views
Original amount of free space
100%
Properties
Rebuild Index Task Task
AdvKeepOnline False
AdvOfflineUnsu False
AdvSortInTemp False
BypassPrepare True
CodePage 1252
Connection CONN1
DatabaseSelect Specific
DbMaintenanc Microsoft.SqlSer
DelayValidation False
Description Rebuild Index T
Disable False
DisableEventHa False
ExecValueVariab <none>
Expressions
ExtendedLoggi True
FailPackageOnl False
FailParentOnFa False
ForcedExecutio 0
ForcedExecutio Int32
ForceExecution None
ForceExecution False
HasExpressions False
ID {66B2D5B2-E998
IgnoreDatabase False
IsolationLevel Serializable
IsStoredProced False
LocalConnectic
LocaleID English (United
LoggingMode UseParentSetti
Name
Specifies the name of the object.

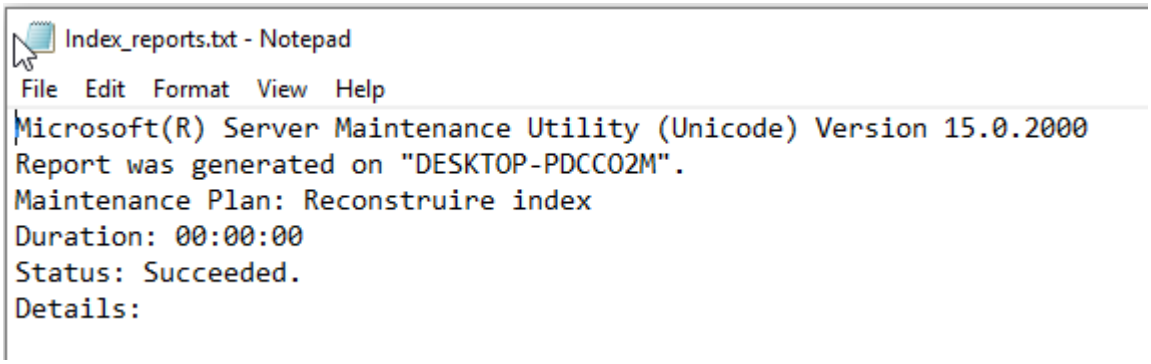

Reconstruire index - sa [Design]*
Object Explorer Details
Add Subplan
Manage Connections ...
Name
Reconstruire index
Description
Subplan
Descrip...
Sch...
Run as
Subplan_1
Subpl...
Not...
SQL Server Agent service account
Rebuild Index Task
Rebuild index on CONN1
Databases: Specific databases
Object: Tables and views
Original amount of free space
Update Statistics Task
Update Statistics on CONN1
Databases: Specific databases
Object: Tables and views
All existing statistics
Scan type: Full scan
100%
Properties
Update Statistics Task Task
BypassPrepare True
CodePage 1252
Connection CONN1
DatabaseSelect Specific
DelayValidation False
Description Update Statisti
Disable False
DisableEventHa False
ExecValueVariab <none>
Expressions
ExtendedLoggi True
FailPackageOnl False
FailParentOnFa False
ForcedExecutio 0
ForcedExecutio Int32
ForceExecution None
ForceExecution False
HasExpressions False
ID {6B010C87-E624
IgnoreDatabase False
IsolationLevel Serializable
IsStoredProced False
LocalConnectic
LocaleID English (United
LoggingMode UseParentSetti
MaximumError 1
Name Update Statisti
ObjectTypeSele Table
PackagePath \Package\Subpl
Name
Specifies the name of the object.


Reconstruire index - sa [Design]*
Object Explorer Details
Add Subplan
Manage Connections ...
Name
Reconstruire index
Description
Subplan
Descrip...
Sch...
Run as
Subplan_1
Subpl...
Not...
SQL Server Agent service account
Rebuild Index Task
Rebuild index on CONN1
Databases: Specific databases
Object: Tables and views
Original amount of free space
Update Statistics Task
Update Statistics on CONN1
Databases: Specific databases
Object: Tables and views
All existing statistics
Scan type: Full scan
100%
History Cleanup Task
Cleanup history on CONN1
History type: Backup,Job,Maintenance Plan
Age: Older than 6 Weeks
Properties
History Cleanup Task Task
BypassPrepare True
CodePage 1252
Connection CONN1
DatabaseSelect All
DelayValidation False
Description History Cleanup
Disable False
DisableEventHa False
ExecValueVariab <none>
Expressions
ExtendedLoggi True
FailPackageOnl False
FailParentOnFa False
ForcedExecutio 0
ForcedExecutio Int32
ForceExecution None
ForceExecution False
HasExpressions False
ID {15FAF1EA-D61F
IgnoreDatabase False
IsolationLevel Serializable
IsStoredProced False
LocalConnectic
LocaleID English (United
LoggingMode UseParentSetti
MaximumError 1
Name History Cleanup
ObjectTypeSele Table
OlderThanTime 6
OlderThanTimeUnits


New Job Schedule
Name:
Reconstruire index.Subplan_1
Jobs in Schedule
Schedule type:
Recurring
Enabled
One-time occurrence
Date:
9/20/2020
Time:
3:22:13 PM
Frequency
Occurs:
Monthly
Day
1
of every
1
month(s)
The
first
Sunday
of every
1
month(s)
Daily frequency
Occurs once at:
12:00:00 AM
Occurs every:
1
hour(s)
Starting at:
12:00:00 AM
Ending at:
11:59:59 PM
Duration
Start date:
9/20/2020
End date:
9/20/2020
No end date:
Summary
Description:
Occurs every first Sunday of every 1 month(s) at 12:00:00 AM. Schedule will be used starting on 9/20/2020.
OK
Cancel
Help


Reporting and Logging
Reporting
The reporting options specified will be applied to all subplans within this maintenance plan.
Generate a text file report
Create a new file
Folder:
C:\MyDocuments\SQL_reports
Append to file
File name:
C:\MyDocuments\SQL_reports\Index_reports.txt
Send report to an email recipient
SQL Server Agent must be configured to use Database Mail in order to send mail. The agent operators list contains only operators that have an email address defined.
Agent operator:
Logging
Log extended information
Log to remote server
Connection:
CONN1
New...
OK
Cancel
Help


Execute Maintenance Plan
Status:
Success
1 Total
1 Success
0 Error
0 Warning
Details:
Action
Status
Message
Execute maintenance plan. Reconstruire index
Success
Close
Report


Index_reports.txt - Notepad
File Edit Format View Help
Microsoft(R) Server Maintenance Utility (Unicode) Version 15.0.2000
Report was generated on "DESKTOP-PDCCO2M".
Maintenance Plan: Reconstruire index
Duration: 00:00:00
Status: Succeeded.
Details: