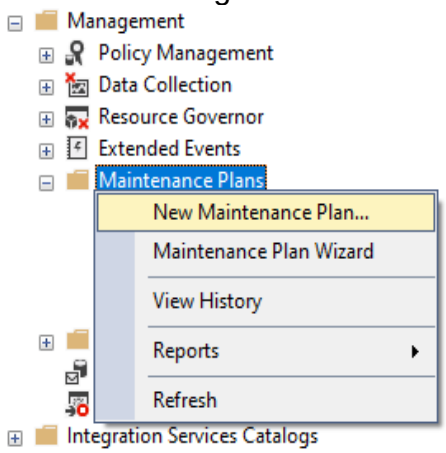
Full, Differential and Transactional Backup

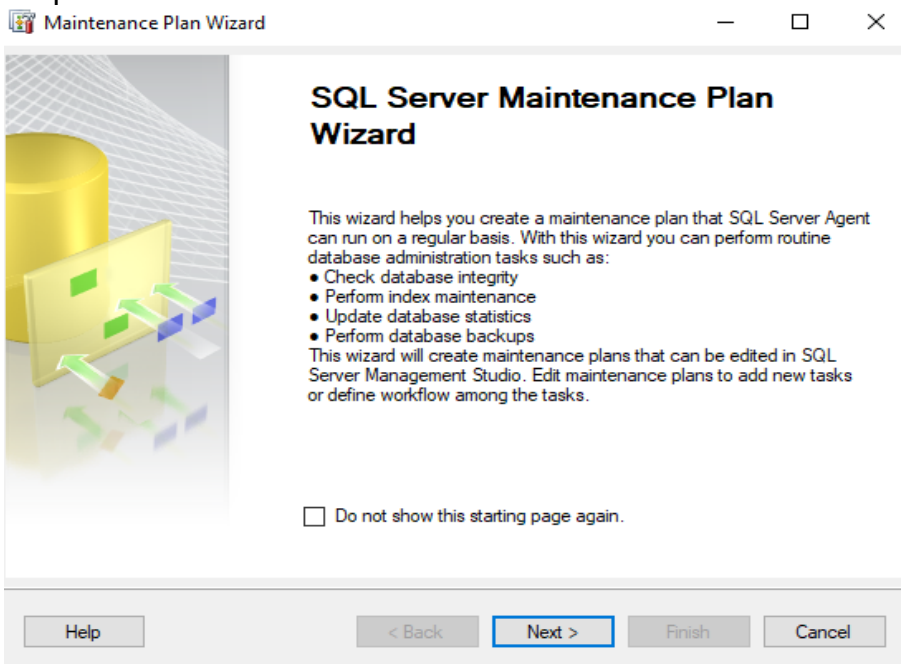
1. Full backup: Tuesday at 12:00 PM
2. Differential backup: every 4 hours from wednesday and thursday
3. Transactional backup: every 1 hours on friday
   => System crash on sunday at 11:00 AM

Full Backup:

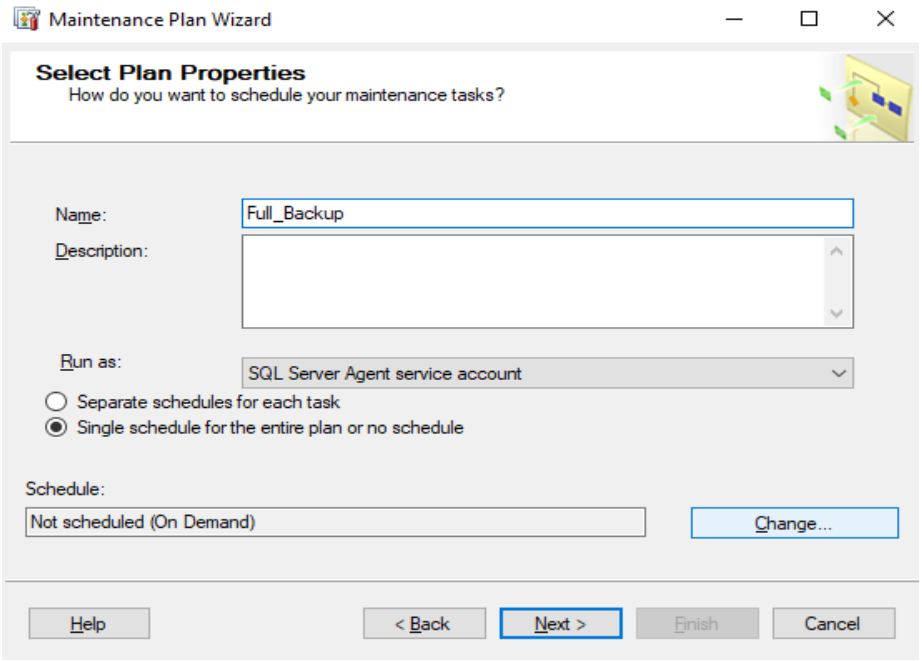
Step 1: Firstly, open SQL Server, and then navigate to Management => Maintenance Plans and then right-click to choose new maintenance plan.



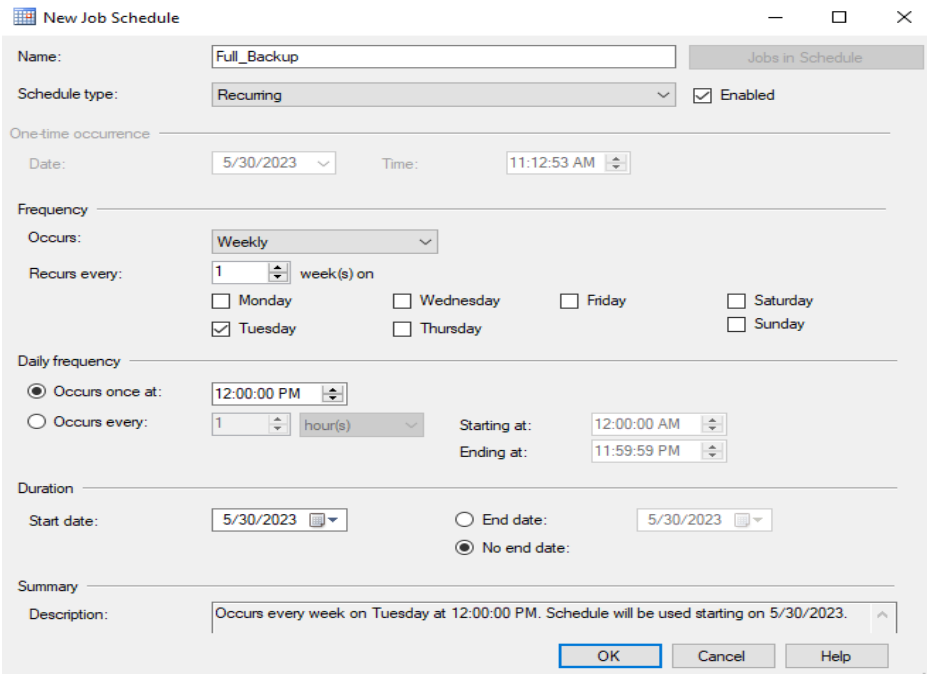
Step 2:



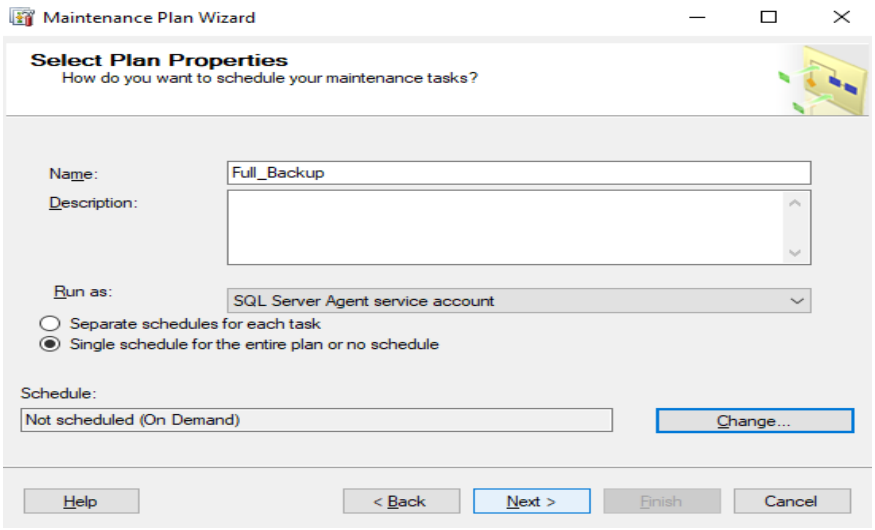
Name: Full_Backup and click on Change button



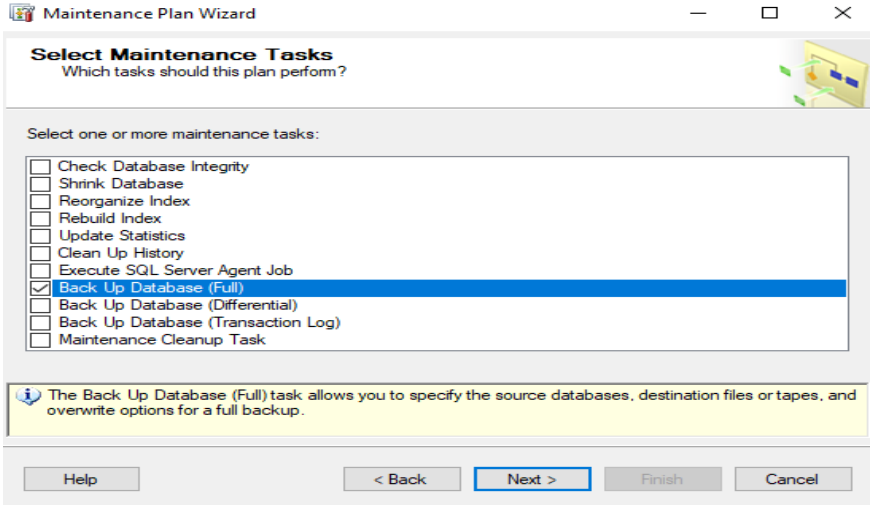
Every week on Tuesday at 12:00 PM, set full backup. The schedule will be followed beginning on May 30, 2023.



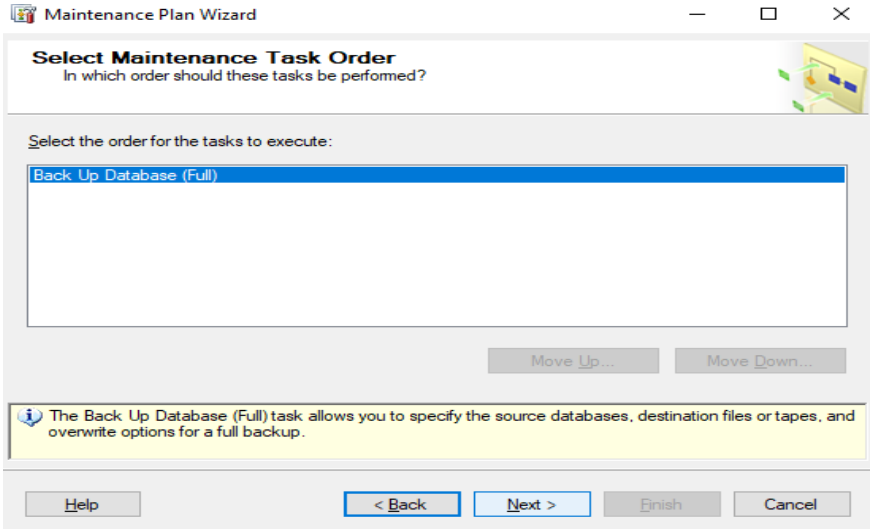
Click ok to continue.



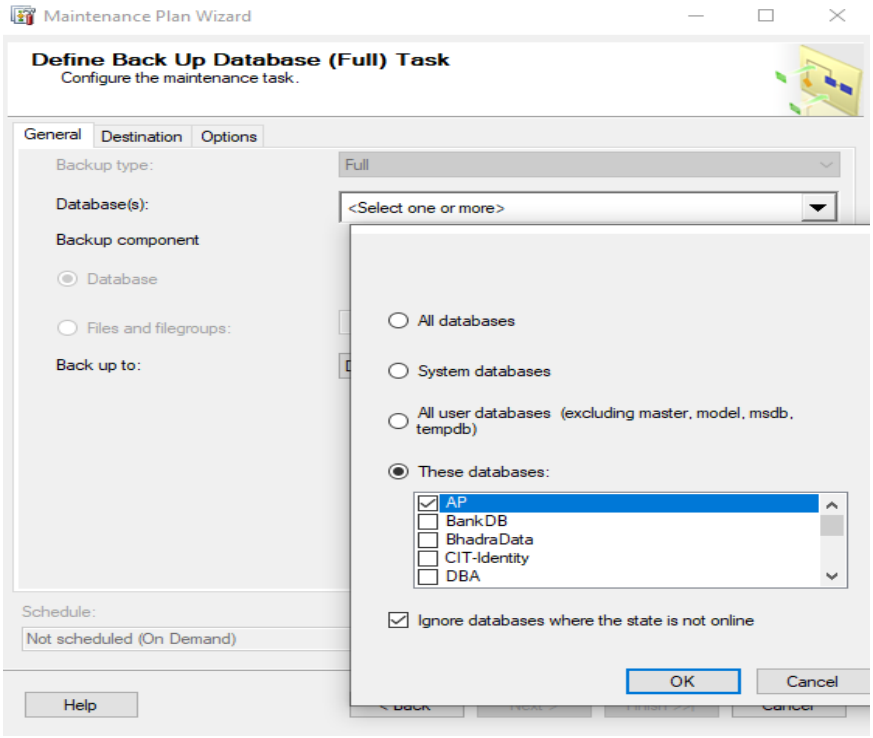
Click next



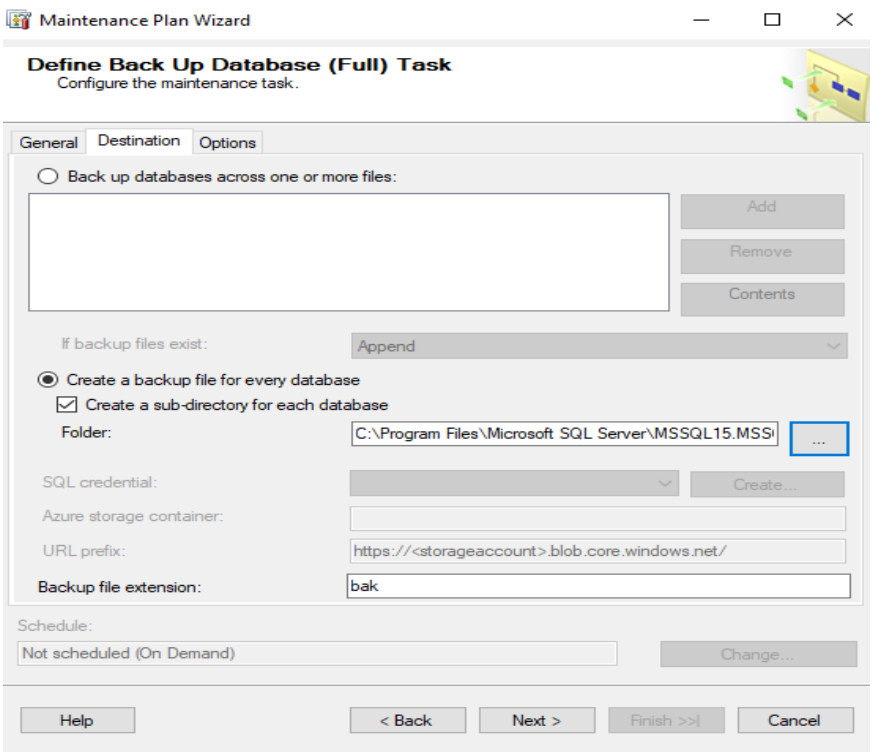
Select Back Up Database (Full) and click next to continue.



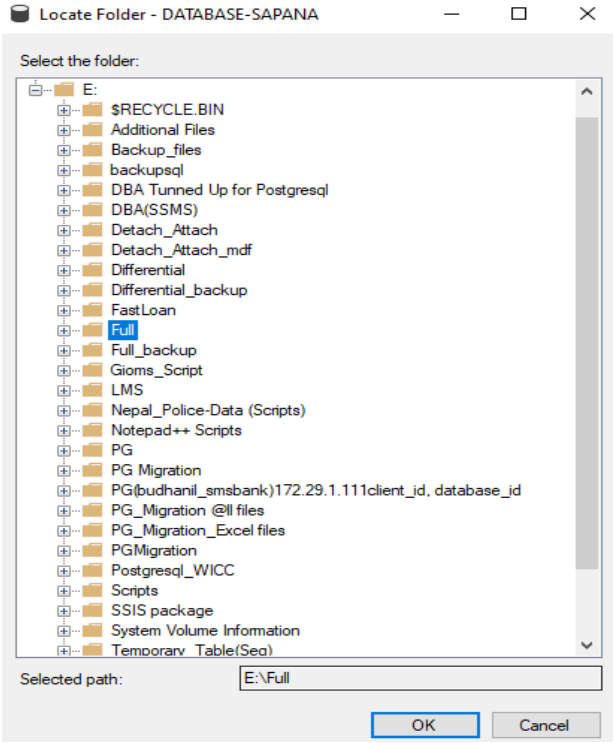
Click Next to continue

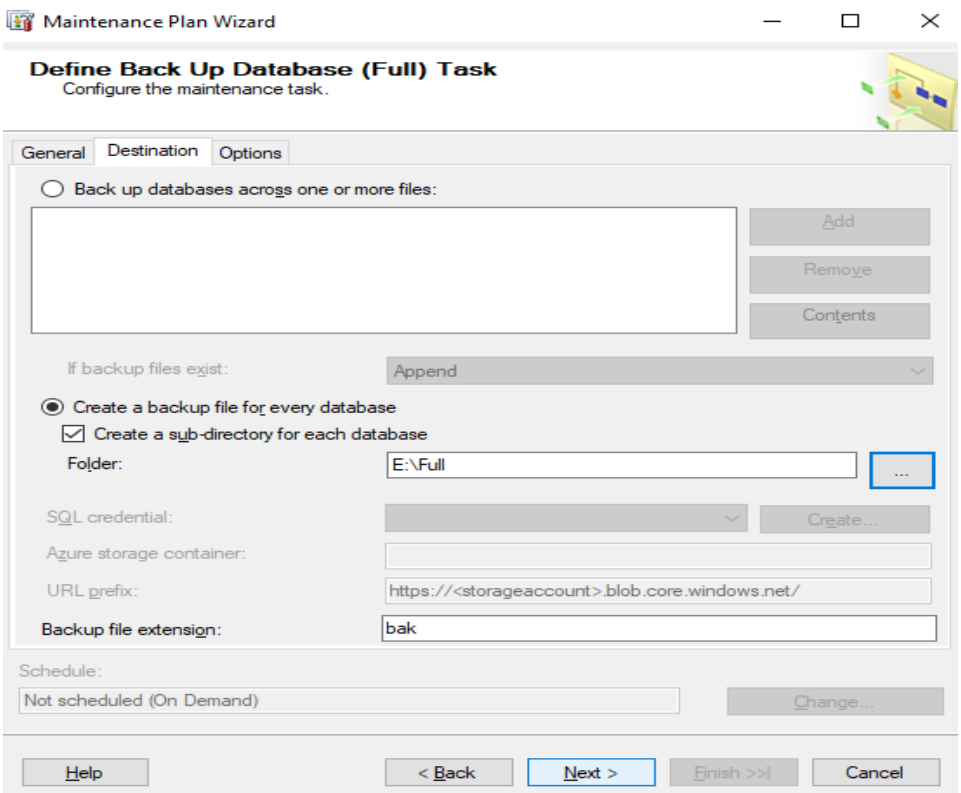


Go to General then choose database AP from dropdown box then click ok.

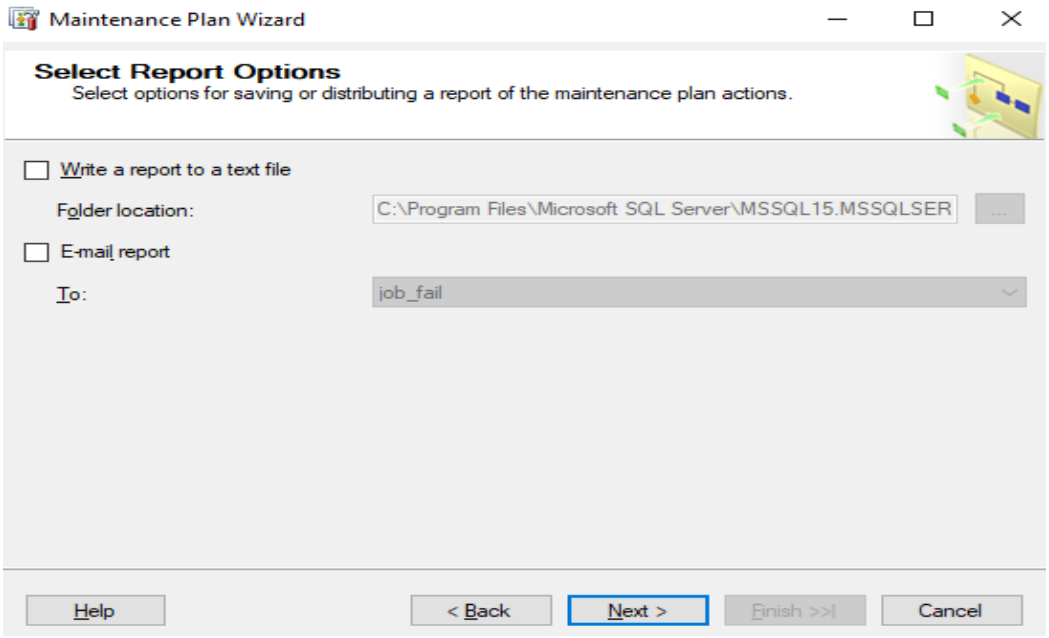


Go to Destination then check create a sub-directory for each database and choose folder ‘E:\Full’.

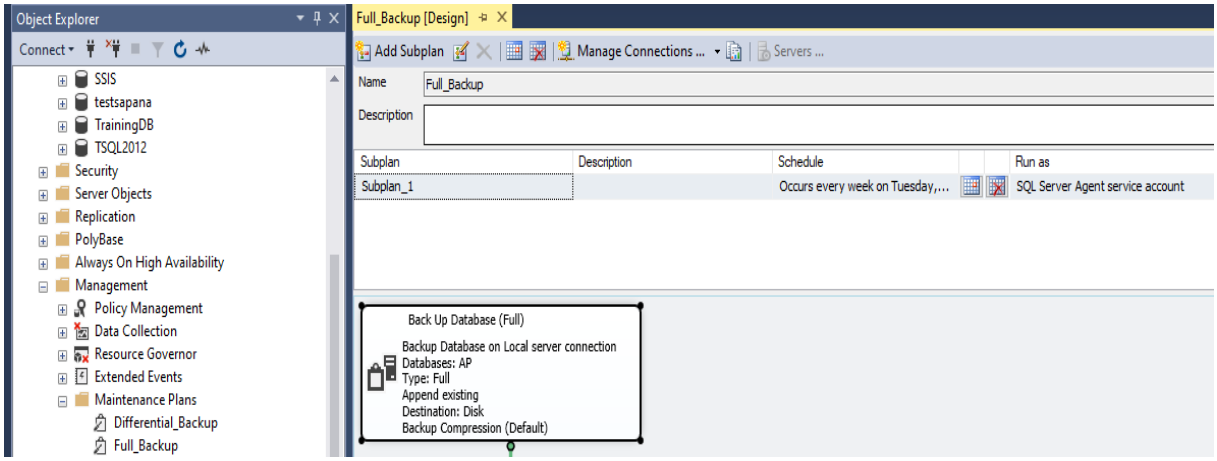




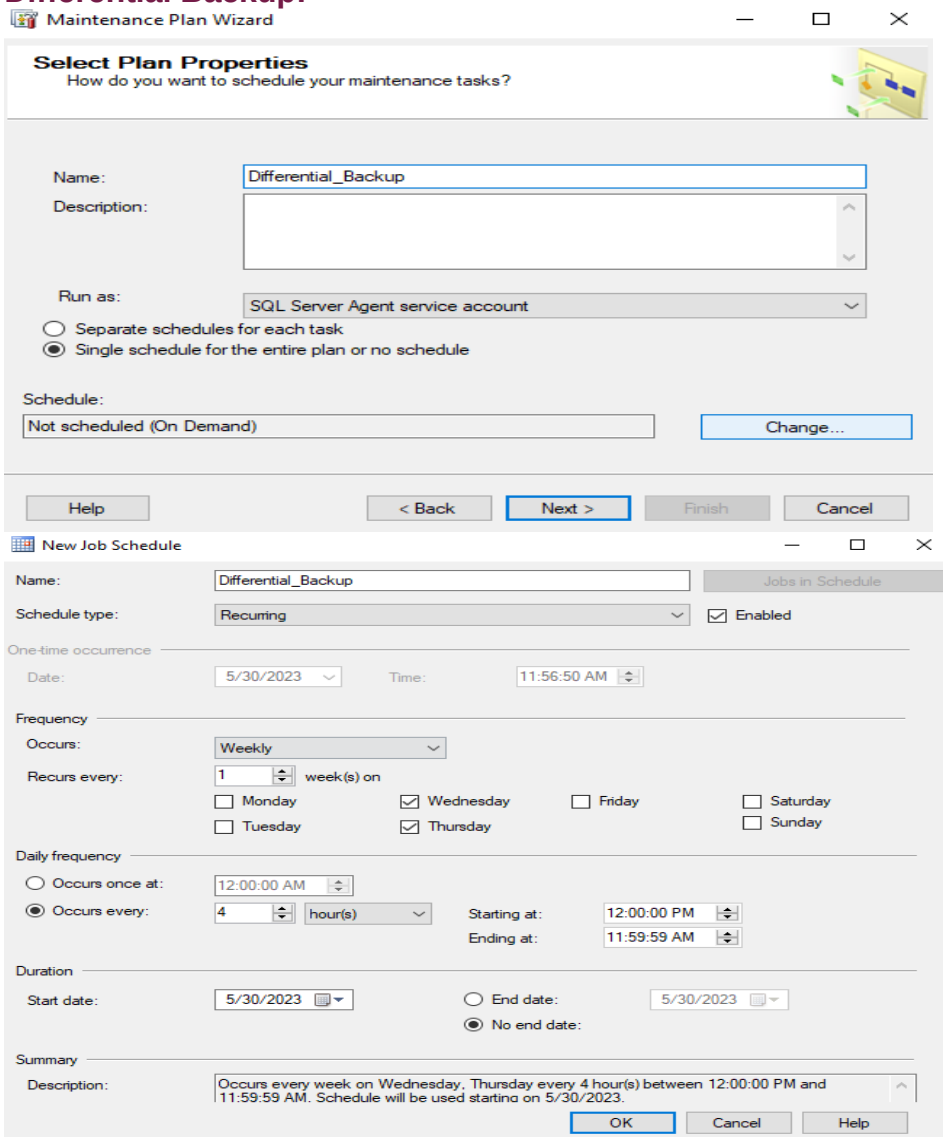
To proceed, leave the options tab unfilled and click next.

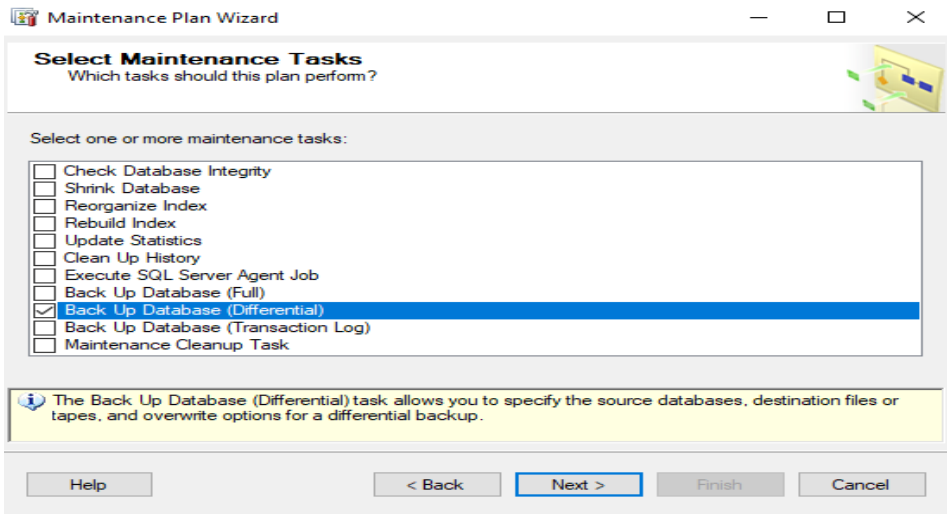


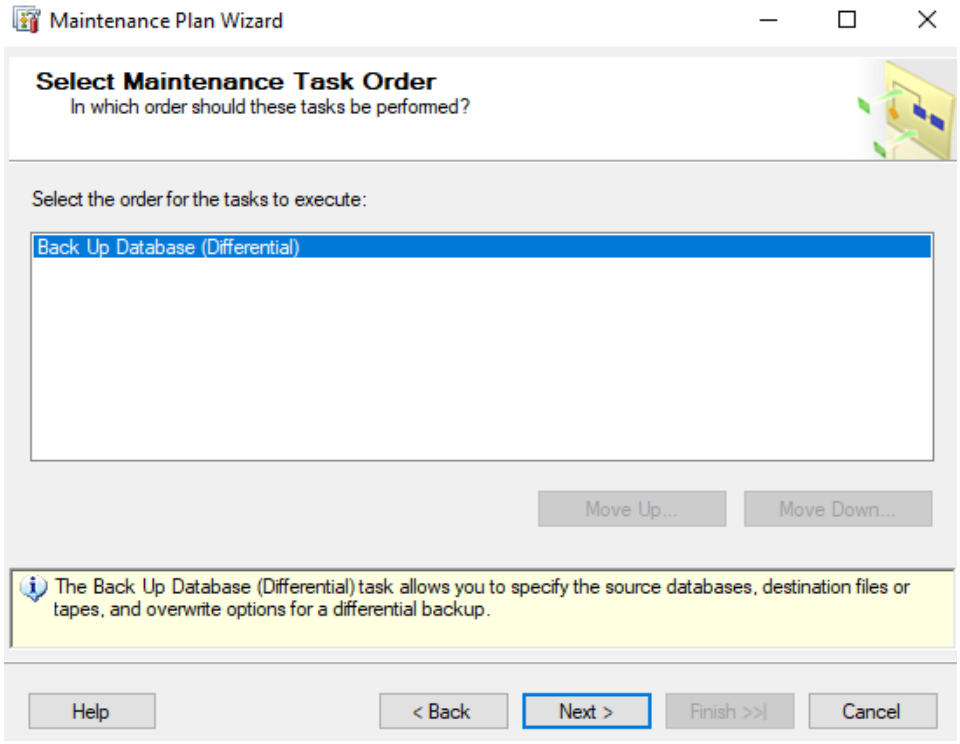
Uncheck the report to a text file box and next to continue. Finally, press the Finish button.

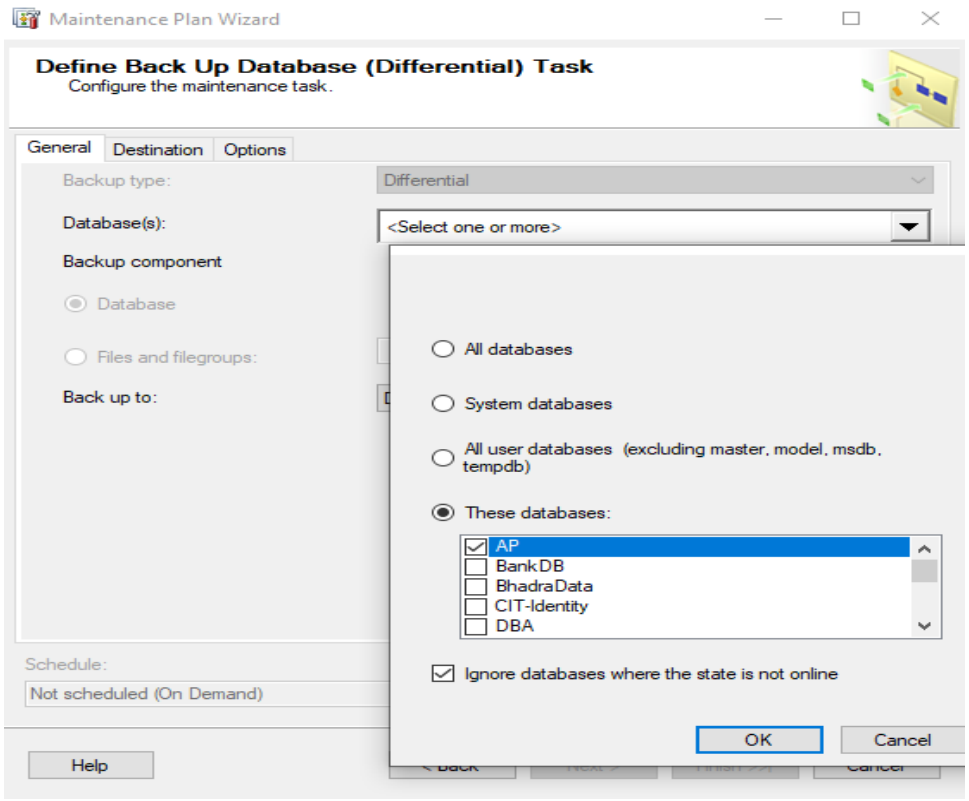


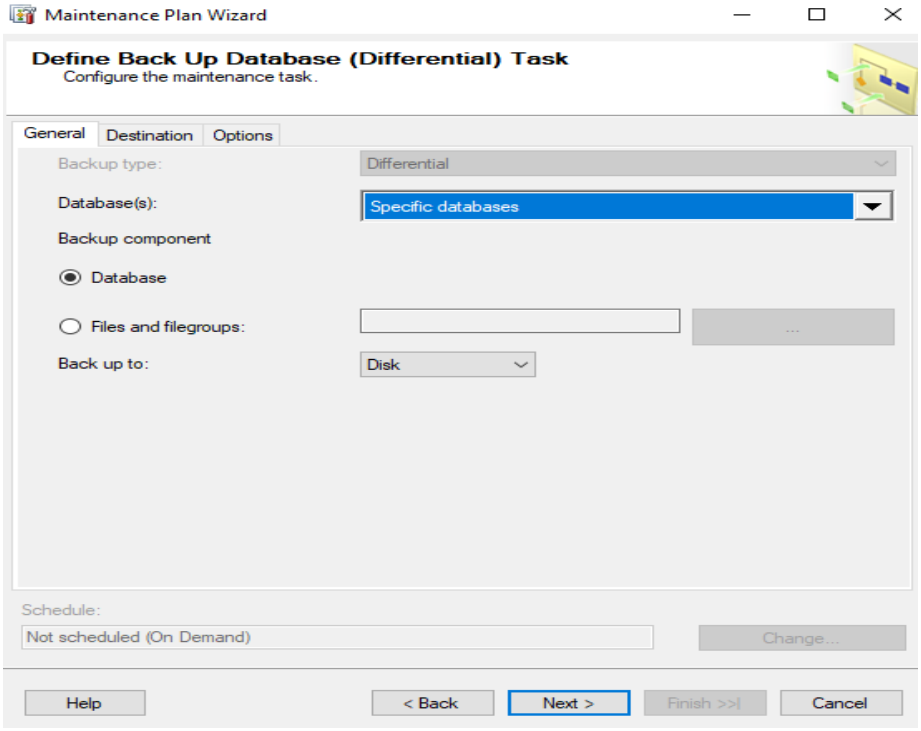
Differential Backup:

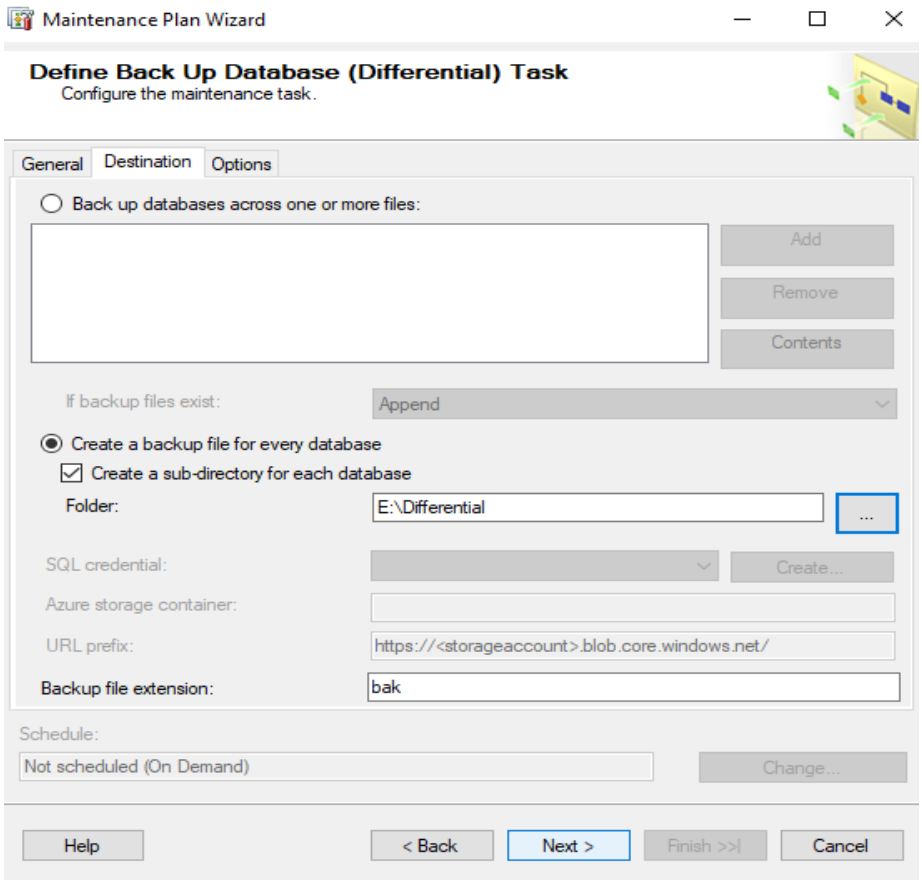


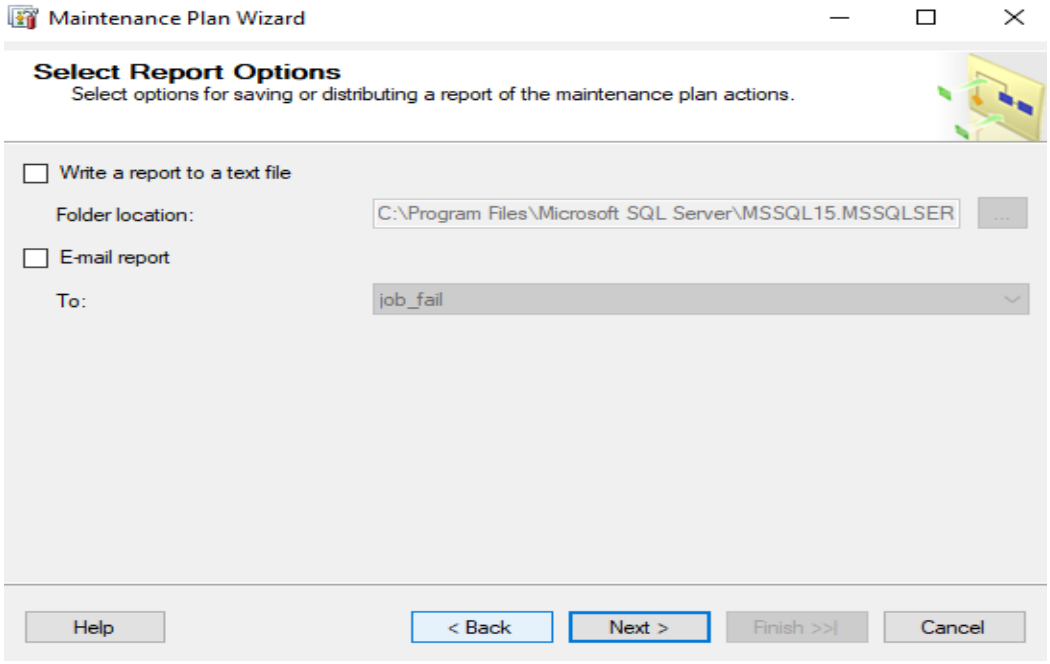

Maintenance Plan Wizard
Select Maintenance Tasks
Which tasks should this plan perform?
Select one or more maintenance tasks:
Check Database Integrity
Shrink Database
Reorganize Index
Rebuild Index
Update Statistics
Clean Up History
Execute SQL Server Agent Job
Back Up Database (Full)
Back Up Database (Differential)
Back Up Database (Transaction Log)
Maintenance Cleanup Task
The Back Up Database (Differential) task allows you to specify the source databases, destination files or tapes, and overwrite options for a differential backup.
Help
< Back
Next >
Finish
Cancel


Maintenance Plan Wizard
Select Maintenance Task Order
In which order should these tasks be performed?
Select the order for the tasks to execute:
Back Up Database (Differential)
Move Up...
Move Down...
The Back Up Database (Differential) task allows you to specify the source databases, destination files or tapes, and overwrite options for a differential backup.
Help
< Back
Next >
Finish >>|
Cancel

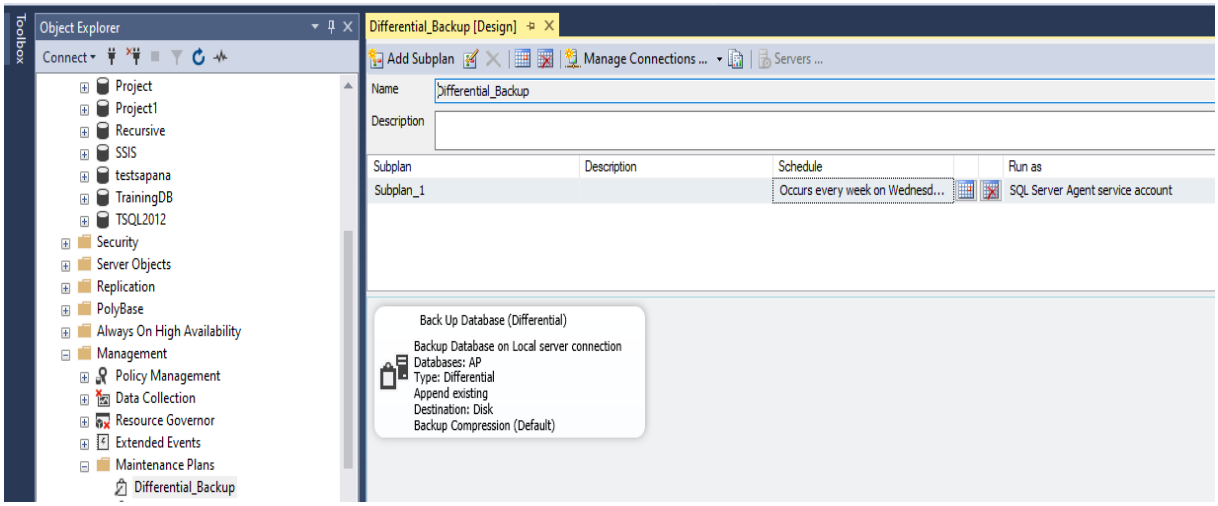

Maintenance Plan Wizard
Define Back Up Database (Differential) Task
Configure the maintenance task.
General
Destination
Options
Backup type:
Differential
Database(s):
<Select one or more>
Backup component
Database
Files and filegroups:
Back up to:
All databases
System databases
All user databases (excluding master, model, msdb, tempdb)
These databases:
AP
BankDB
BhadraData
CIT-Identity
DBA
Ignore databases where the state is not online
OK
Cancel
Schedule:
Not scheduled (On Demand)
Help


Maintenance Plan Wizard
Define Back Up Database (Differential) Task
Configure the maintenance task.
General
Destination
Options
Backup type:
Differential
Database(s):
Specific databases
Backup component
Database
Files and filegroups:
Back up to:
Disk
Schedule:
Not scheduled (On Demand)
Change...
Help
< Back
Next >
Finish >>|
Cancel

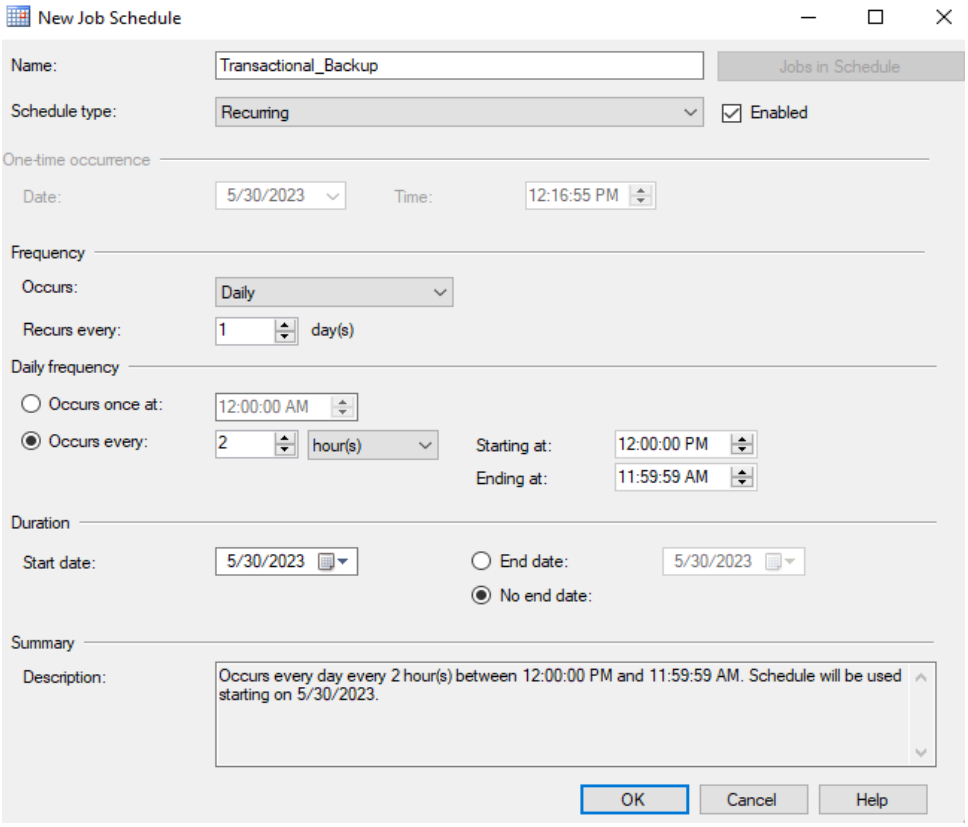

Maintenance Plan Wizard
Define Back Up Database (Differential) Task
Configure the maintenance task.
General
Destination
Options
Back up databases across one or more files:
Add
Remove
Contents
If backup files exist:
Append
Create a backup file for every database
Create a sub-directory for each database
Folder:
E:\Differential
...
SQL credential:
Create...
Azure storage container:
URL prefix:
https://<storageaccount>.blob.core.windows.net/
Backup file extension:
bak
Schedule:
Not scheduled (On Demand)
Change...
Help
< Back
Next >
Finish >>|
Cancel

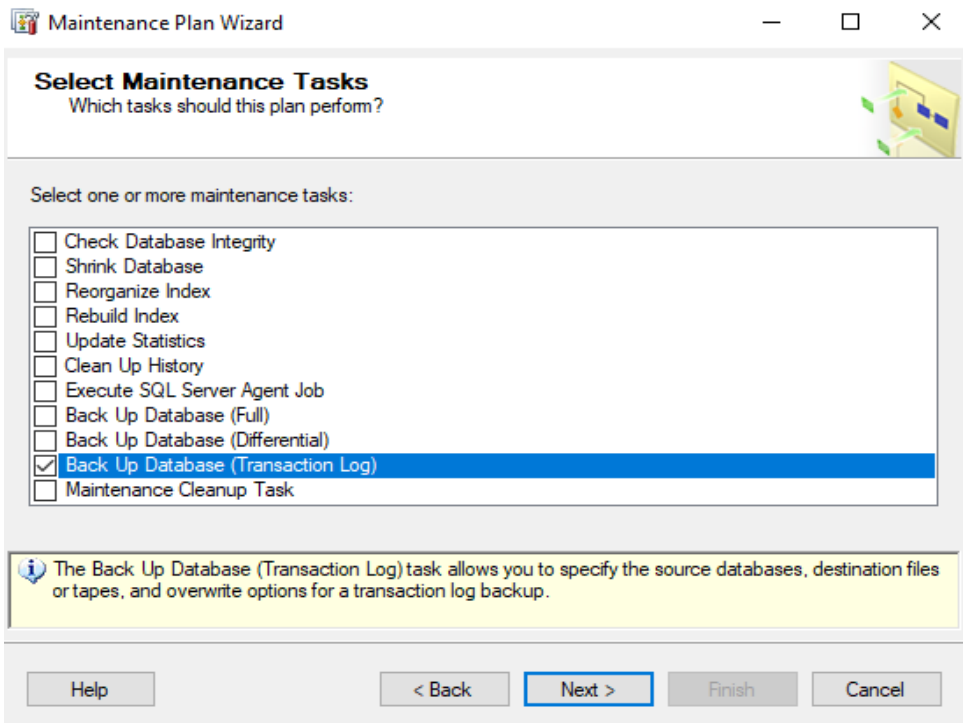

Maintenance Plan Wizard
Select Report Options
Select options for saving or distributing a report of the maintenance plan actions.
Write a report to a text file
Folder location:
C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSER
...
E-mail report
To:
job_fail
Help
< Back
Next >
Finish >>|
Cancel

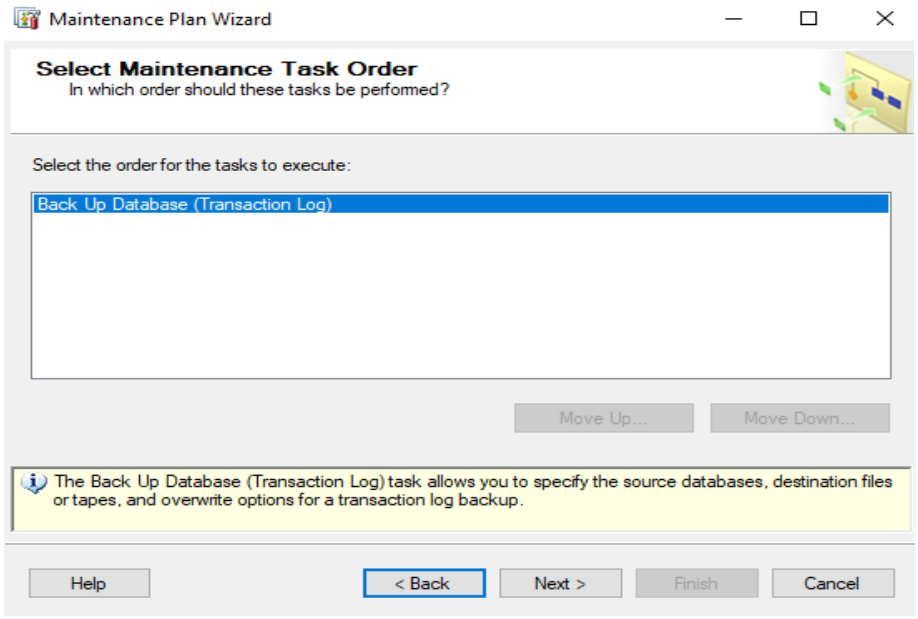
Uncheck the report to a text file box and next to continue. Finally, press the Finish button.

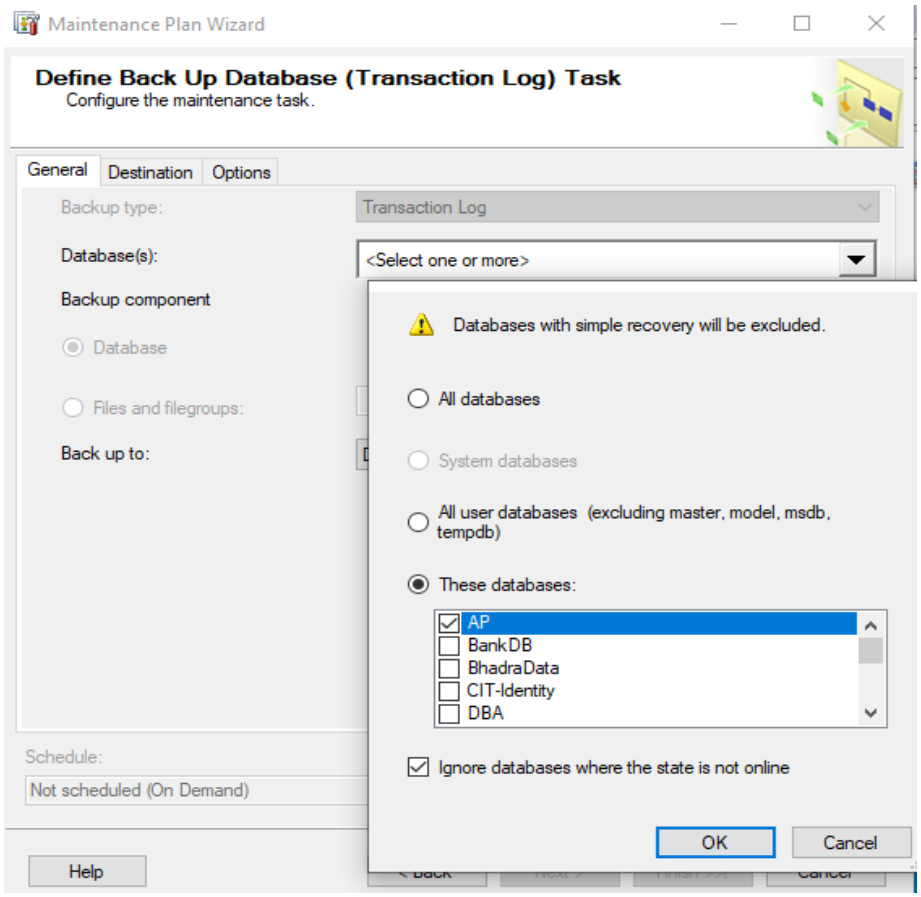


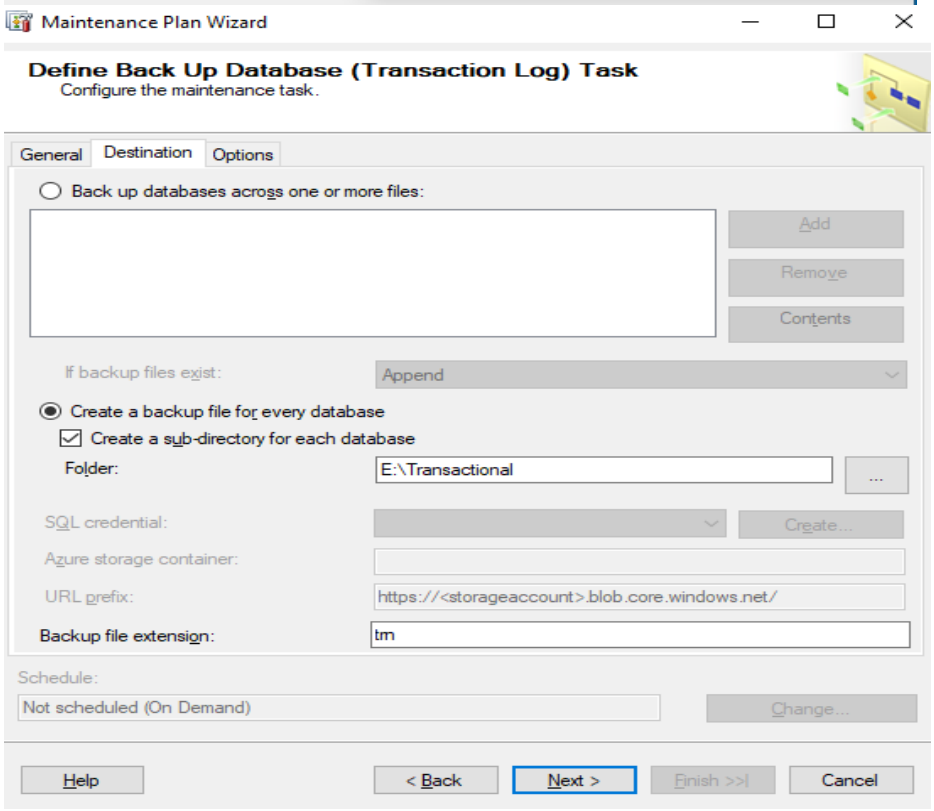
Transactional Backup:

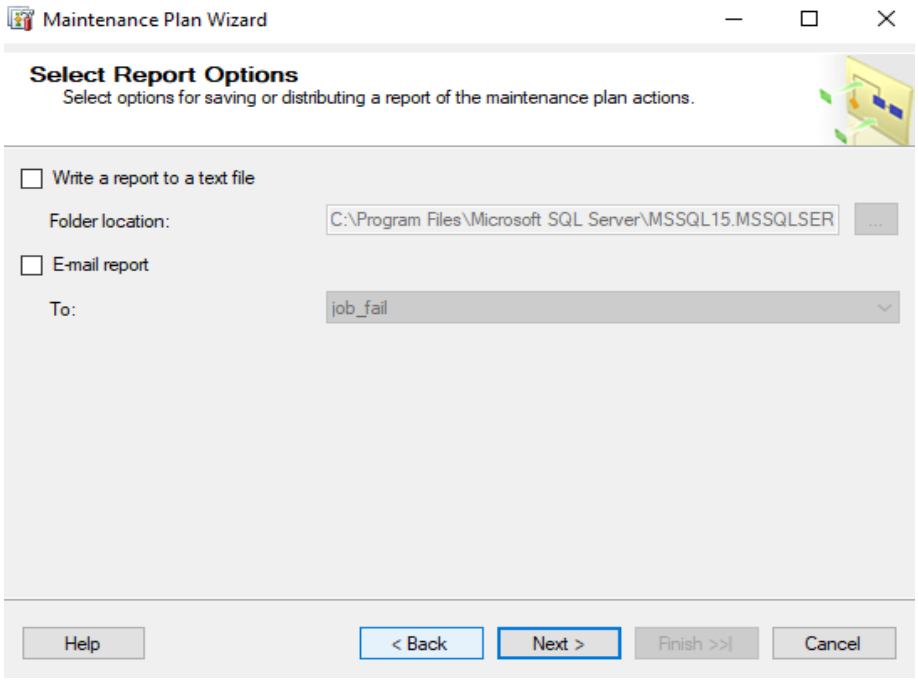



Maintenance Plan Wizard
Select Maintenance Tasks
Which tasks should this plan perform?
Select one or more maintenance tasks:
Check Database Integrity
Shrink Database
Reorganize Index
Rebuild Index
Update Statistics
Clean Up History
Execute SQL Server Agent Job
Back Up Database (Full)
Back Up Database (Differential)
Back Up Database (Transaction Log)
Maintenance Cleanup Task
The Back Up Database (Transaction Log) task allows you to specify the source databases, destination files or tapes, and overwrite options for a transaction log backup.
Help
< Back
Next >
Finish
Cancel

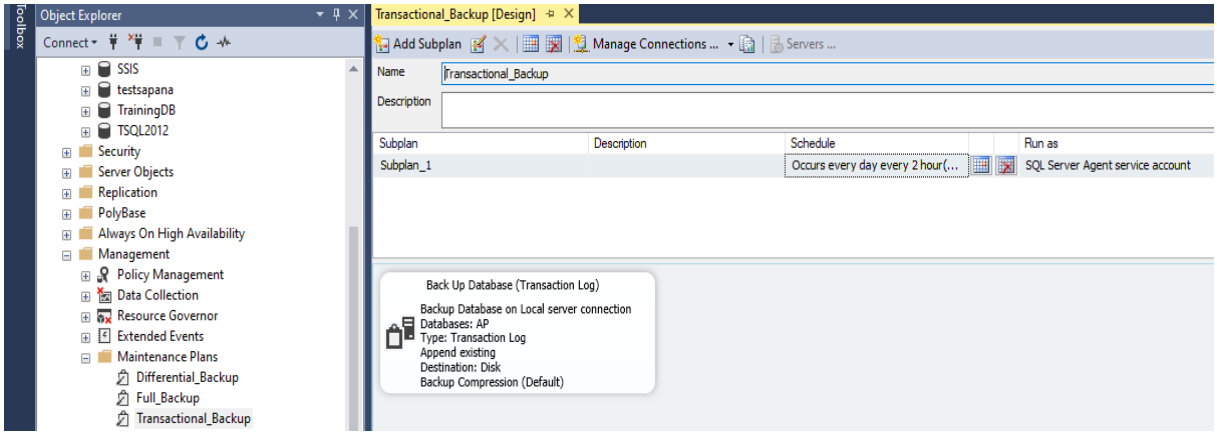

Maintenance Plan Wizard
Select Maintenance Task Order
In which order should these tasks be performed?
Select the order for the tasks to execute:
Back Up Database (Transaction Log)
Move Up...
Move Down...
The Back Up Database (Transaction Log) task allows you to specify the source databases, destination files or tapes, and overwrite options for a transaction log backup.
Help
< Back
Next >
Finish
Cancel


Maintenance Plan Wizard
Define Back Up Database (Transaction Log) Task
Configure the maintenance task.
General
Destination
Options
Backup type:
Transaction Log
Database(s):
<Select one or more>
Backup component
Database
Files and filegroups:
Back up to:
Databases with simple recovery will be excluded.
All databases
System databases
All user databases (excluding master, model, msdb, tempdb)
These databases:
AP
BankDB
BhadraData
CIT-Identity
DBA
Ignore databases where the state is not online
OK
Cancel
Schedule:
Not scheduled (On Demand)
Help


Maintenance Plan Wizard
Define Back Up Database (Transaction Log) Task
Configure the maintenance task.
General
Destination
Options
Back up databases across one or more files:
Add
Remove
Contents
If backup files exist:
Append
Create a backup file for every database
Create a sub-directory for each database
Folder:
E:\Transactional
SQL credential:
Create...
Azure storage container:
URL prefix:
https://<storageaccount>.blob.core.windows.net/
Backup file extension:
trn
Schedule:
Not scheduled (On Demand)
Change...
Help
< Back
Next >
Finish >>|
Cancel



Uncheck the report to a text file box and next to continue. Finally, press the Finish button.



System crash on Sunday at 11:00 AM

After a system crash, a backup is not feasible. Backup will not continue from 11:00 AM. Therefore, until the system is restored, there won't be a full, differential, or transactional backup. Once the system has been restored, a backup will be made on the scheduled day and time.