Security

--- 2 ---

USE [Northwind]

CREATE LOGIN [SecurityUser2] WITH PASSWORD=N'123' MUST\_CHANGE, DEFAULT\_DATABASE=[Northwind], CHECK\_EXPIRATION=ON, CHECK\_POLICY=ON

GO

CREATE USER [SecurityUser2] FOR LOGIN [SecurityUser2] WITH DEFAULT\_SCHEMA=[SecurityUser2]

GO

DENY ALTER ON [dbo].[Products] TO [SecurityUser2]

DENY CONTROL ON [dbo].[Products] TO [SecurityUser2]

DENY DELETE ON [dbo].[Products] TO [SecurityUser2]

DENY INSERT ON [dbo].[Products] TO [SecurityUser2]

DENY REFERENCES ON [dbo].[Products] TO [SecurityUser2]

DENY SELECT ON [dbo].[Products] TO [SecurityUser2]

DENY TAKE OWNERSHIP ON [dbo].[Products] TO [SecurityUser2]

DENY UPDATE ON [dbo].[Products] TO [SecurityUser2]

DENY VIEW CHANGE TRACKING ON [dbo].[Products] TO [SecurityUser2]

DENY VIEW DEFINITION ON [dbo].[Products] TO [SecurityUser2]

GRANT SELECT ON [dbo].[Products\_ammount] TO [SecurityUser2]

--- 3 ---

USE [msdb]

GO

-- creates credential

CREATE CREDENTIAL [Backup] WITH IDENTITY = N'TCDBA1\DBBackup', SECRET = N'Pass.word'

GO

-- creates proxy

EXEC msdb.dbo.sp\_add\_proxy @proxy\_name=N'Backup\_Job',@credential\_name=N'Backup',

@enabled=1,

@description=N'DBBackup'

GO

-- grants roles to the proxy

EXEC msdb.dbo.sp\_grant\_login\_to\_proxy @proxy\_name=N'Backup\_Job', @fixed\_server\_role=N'sysadmin'

GO

EXEC msdb.dbo.sp\_grant\_login\_to\_proxy @proxy\_name=N'Backup\_Job', @msdb\_role=N'SQLAgentUserRole'

GO

CREATE LOGIN [TCDBA1\DBBackup] FROM WINDOWS WITH DEFAULT\_DATABASE=[master], DEFAULT\_LANGUAGE=[us\_english]

GO

ALTER LOGIN [DBBackup] ADD CREDENTIAL [Backup]

GO

ALTER SERVER ROLE [sysadmin] ADD MEMBER [TCDBA1\DBBackup]

GO

-- create job

USE [msdb]

GO

DECLARE @jobId BINARY(16)

EXEC msdb.dbo.sp\_add\_job @job\_name=N'Backup Full',

@enabled=1,

@notify\_level\_eventlog=2,

@notify\_level\_email=2,

@notify\_level\_netsend=2,

@notify\_level\_page=2,

@delete\_level=0,

@description=N'DB Backup',

@category\_name=N'Database Maintenance',

@owner\_login\_name=N'TCDBA1\DBBackup', @job\_id = @jobId OUTPUT

select @jobId

GO

EXEC msdb.dbo.sp\_add\_jobserver @job\_name=N'Backup Full', @server\_name = N'TCDBA'

GO

USE [msdb]

GO

EXEC msdb.dbo.sp\_add\_jobstep @job\_name=N'Backup Full', @step\_name=N'Backup Northwind',

@step\_id=1,

@cmdexec\_success\_code=0,

@on\_success\_action=1,

@on\_fail\_action=2,

@retry\_attempts=0,

@retry\_interval=0,

@os\_run\_priority=0, @subsystem=N'TSQL',

@command=N'BACKUP DATABASE [Northwind] TO DISK = N''C:\backup\security job\Northwind\Northwind.bak'' WITH NOFORMAT, NOINIT, NAME = N''Northwind-Full Database Backup'', SKIP, NOREWIND, NOUNLOAD, STATS = 10, CHECKSUM

GO

declare @backupSetId as int

select @backupSetId = position from msdb..backupset where database\_name=N''Northwind'' and backup\_set\_id=(select max(backup\_set\_id) from msdb..backupset where database\_name=N''Northwind'' )

if @backupSetId is null begin raiserror(N''Verify failed. Backup information for database ''''Northwind'''' not found.'', 16, 1) end

RESTORE VERIFYONLY FROM DISK = N''C:\backup\security job\Northwind\Northwind.bak'' WITH FILE = @backupSetId, NOUNLOAD, NOREWIND

GO

',

@database\_name=N'master',

@database\_user\_name=N'dbo',

@flags=4

GO

USE [msdb]

GO

EXEC msdb.dbo.sp\_update\_job @job\_name=N'Backup Full',

@enabled=1,

@start\_step\_id=1,

@notify\_level\_eventlog=2,

@notify\_level\_email=2,

@notify\_level\_netsend=2,

@notify\_level\_page=2,

@delete\_level=0,

@description=N'DB Backup',

@category\_name=N'Database Maintenance',

@owner\_login\_name=N'TCDBA1\DBBackup',

@notify\_email\_operator\_name=N'',

@notify\_netsend\_operator\_name=N'',

@notify\_page\_operator\_name=N''

GO

-- Job schedule

USE [msdb]

Go

DECLARE @schedule\_id int

EXEC msdb.dbo.sp\_add\_jobschedule @job\_name=N'Backup Full', @name=N'Backup Full',

@enabled=1,

@freq\_type=4,

@freq\_interval=1,

@freq\_subday\_type=1,

@freq\_subday\_interval=0,

@freq\_relative\_interval=0,

@freq\_recurrence\_factor=1,

@active\_start\_date=20190202,

@active\_end\_date=99991231,

@active\_start\_time=30000,

@active\_end\_time=235959, @schedule\_id = @schedule\_id OUTPUT

select @schedule\_id

GO

--- 4 ---

-- run CMD as administrator then run the following

-- to stop SQL service

net stop MSSQLSERVER

-- to restart the service in single user mode

net start MSSQLSERVER /m"SQLCMD"

-- to connect to the instance

sqlcmd -STCDBA

-- to create new login

CREATE LOGIN RecoveryAcct WITH PASSWORD=’TempPass!’

GO

-- to grand to the new login sysadmin permissions

SP\_ADDSRVROLEMEMBER RecoveryAcct,’SYSADMIN’

GO

-- to exit from the instance

exit

-- to restart the service in regular mode

net stop MSSQLSERVER && net start MSSQLSERVER

-- connect to SSMS via new login

-- change the SA password after login with new sysadmin login that we created in CMD

USE [master]

GO

ALTER LOGIN [sa] WITH PASSWORD=N'Pass.word'

GO

--- 5 ---

USE [master]

GO

CREATE LOGIN [Bob] WITH PASSWORD=N' !Q@W#E#RR$T^:', DEFAULT\_DATABASE=[eDate], CHECK\_EXPIRATION=OFF, CHECK\_POLICY=OFF

GO

--- 6 ---

USE [eDate]

GO

CREATE USER [Bob] FOR LOGIN [Bob]

GO

--- 8 ---

USE [master]

GO

EXEC xp\_instance\_regwrite N'HKEY\_LOCAL\_MACHINE', N'Software\Microsoft\MSSQLServer\MSSQLServer', N'LoginMode', REG\_DWORD, 2

GO

--- 11 ---

USE [eDate]

GO

CREATE ROLE [Bobs] AUTHORIZATION [Bob]

GO

GRANT DELETE ON SCHEMA::[sys] TO [Bobs]

GRANT INSERT ON SCHEMA::[sys] TO [Bobs]

GRANT SELECT ON SCHEMA::[sys] TO [Bobs]

GRANT UPDATE ON SCHEMA::[sys] TO [Bobs]

GRANT DELETE ON SCHEMA::[Lists] TO [Bobs]

GRANT INSERT ON SCHEMA::[Lists] TO [Bobs]

GRANT SELECT ON SCHEMA::[Lists] TO [Bobs]

GRANT UPDATE ON SCHEMA::[Lists] TO [Bobs]

GRANT DELETE ON SCHEMA::[Operation] TO [Bobs]

GRANT INSERT ON SCHEMA::[Operation] TO [Bobs]

GRANT SELECT ON SCHEMA::[Operation] TO [Bobs]

GRANT UPDATE ON SCHEMA::[Operation] TO [Bobs]

GRANT DELETE ON SCHEMA::[dbo] TO [Bobs]

GRANT INSERT ON SCHEMA::[dbo] TO [Bobs]

GRANT SELECT ON SCHEMA::[dbo] TO [Bobs]

GRANT UPDATE ON SCHEMA::[dbo] TO [Bobs]

--- 12 ---

USE [eDate]

GO

ALTER ROLE [Bobs] ADD MEMBER [Bob]

GO

--- 14 ---

DENY SELECT ON [Operation].[Members] TO [Bobs]