BACKUP and RECOVERY

--- 1 ---

USE [master] ;

ALTER DATABASE [eDate] SET RECOVERY FULL ;

BACKUP DATABASE [eDate] TO DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH DESCRIPTION = N'eDate-Full ', NOFORMAT, NOINIT, NAME = N'eDate-Full Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10, CHECKSUM

GO

declare @backupSetId as int

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

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

RESTORE VERIFYONLY FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = @backupSetId, NOUNLOAD, NOREWIND

GO

--- 2 ---

use eDate

insert into Operation.Members

values

(amira\_b', 1087743, 'K', 'B' ,NULL ,2 ,NULL ,'xxxxxxxxxx@gmail.com' ,2 ,'1996-11-08' ,NULL ,1 ,NULL ,'2017-09-17 09:43:40')

--- 3 ---

BACKUP DATABASE [eDate] TO DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH DIFFERENTIAL , NOFORMAT, NOINIT, NAME = N'eDate-Diff Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10

GO

--- 4 ---

use eDate

insert into Operation.Members

values

('XXXXXX', 1087743, 'K', 'B' ,NULL ,2 ,NULL ,'xxxxxxxxxx@gmail.com' ,2 ,'1996-11-08' ,NULL ,1 ,NULL ,'2017-09-17 09:43:40')

--- 5 ---

BACKUP LOG [eDate] TO DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_TLog.trn' WITH NOFORMAT, NOINIT, NAME = N'eDate-Full Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10

GO

--- 6 ---

use eDate

insert into Operation.Members

values

('XXXXXX', 111222333, 'L', 'M' ,NULL ,2 ,NULL ,'xxxxxxxxxx@gmail.com' ,2 ,'1996-11-08' ,NULL ,1 ,NULL ,'2017-09-17 09:43:40')

--- 7 ---

use master

ALTER DATABASE [eDate] SET SINGLE\_USER

RESTORE DATABASE [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = 1, NORECOVERY, NOUNLOAD, STATS = 5

--- 8 ---

--- We will not have access as we in No recovery mode

--- 9 ---

use master

RESTORE DATABASE [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = 1, NORECOVERY, NOUNLOAD, REPLACE, STATS = 5

RESTORE DATABASE [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = 2, STANDBY = N'C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER\MSSQL\Backup\eDate\_RollbackUndo\_2018-12-18\_16-19-13.bak', NOUNLOAD, STATS = 5

--- 10 ---

use eDate

select \*

from operation.members

---- Insert will not work since we are in Standby mode

insert into Operation.Members

values

('XXXXXX', 1087743, 'K', 'B' ,NULL ,2 ,NULL ,'xxxxxxxxxx@gmail.com' ,2 ,'1996-11-08' ,NULL ,1 ,NULL ,'2017-09-17 09:43:40')

--- 11 ---

use master

RESTORE DATABASE [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = 1, NORECOVERY, NOUNLOAD, REPLACE, STATS = 5

RESTORE DATABASE [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_Full.bak' WITH FILE = 2, NORECOVERY, NOUNLOAD, STATS = 5

RESTORE LOG [eDate] FROM DISK = N'C:\CourseMaterials\eDate\BackupFiles\eDate\_TLog.trn' WITH FILE = 1, STANDBY = N'C:\Program Files\Microsoft SQL Server\MSSQL13.MSSQLSERVER\MSSQL\Backup\eDate\_RollbackUndo\_2018-12-18\_16-24-18.bak', NOUNLOAD, STATS = 5

--- 12 ---

use eDate

select \*

from operation.members

--- We restored the the DB after 2 inserts so it will be 100002

--- 13 ---

use master

RESTORE DATABASE eDate

--- 14 ---

CREATE DATABASE eDate\_Snapshot\_1

ON

(

NAME =eDate\_Data,

FILENAME ='C:\CourseMaterials\eDate\BackupFiles\eDate\_Snapshot\_1.SS'

)

AS SNAPSHOT OF eDate

--- 15 ---

--select @@VERSION

--Microsoft SQL Server 2016 (SP1-CU5) (KB4040714) - 13.0.4451.0 (X64) Sep 5 2017 16:12:34 Copyright (c) Microsoft Corporation Enterprise Edition (64-bit) on Windows Server 2012 R2 Standard 6.3 <X64> (Build 9600: ) (Hypervisor)

USE eDate ;

GO

EXEC sp\_addumpdevice 'disk', 'Backup\_device', 'C:\backup\eDate.bak'

EXEC sp\_addumpdevice 'disk', 'Backup\_device\_2', 'C:\CourseMaterials\eDate.bak' ;

GO

BACKUP DATABASE [eDate] TO [Backup\_device], [Backup\_device\_2] WITH NOFORMAT, NOINIT, NAME = N'eDate-Full Database Backup', SKIP, NOREWIND, NOUNLOAD, STATS = 10