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Partial backup/restore on partitioned tables (Simple Recovery Model)

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This example is to show how partial backup/restore works on partitioned tables placed on both read/write and read only filegroups. This is related to "Piecemeal Restore of Only Some Filegroups (Simple Recovery Model)"

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RestoreOnlySomeFilegroups.sql



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Description

[Q and A \(2\)](#)

Introduction

This example is to show how partial backup/restore works on partitioned tables placed on both read/write and read only filegroups. This could be interesting for partitioned fact tables on a sliding window.

This is related to ["Piecemeal Restore of Only Some Filegroups \(Simple Recovery Model\)"](#).

Building the Sample

The only requirement is a SQL server test instance. Multiple resultsets show the behavior of the different restore. The script will create a database in the current instance and some backup files in the default SQL Server backup folder. The script have been written and tested on SQL server 2012 x64 Developer Edition. I also used it recently on SQL Server 2016 x64 Developer Edition.

Create an empty database with a table on

- Readonly filegroup

- Readwrite filegroup

SQL

```
USE [master]
GO

IF EXISTS (SELECT name FROM sys.databases WHERE name = N'RestoreOnlySomeFilegroups')
    DROP DATABASE [RestoreOnlySomeFilegroups]
GO

CREATE DATABASE [RestoreOnlySomeFilegroups]

ALTER DATABASE [RestoreOnlySomeFilegroups] SET RECOVERY SIMPLE
GO

ALTER DATABASE [RestoreOnlySomeFilegroups] ADD FILEGROUP [FGReadOnly]
ALTER DATABASE [RestoreOnlySomeFilegroups] ADD FILEGROUP [FGReadWrite]
GO

DECLARE @DefaultDataDir NVARCHAR(4000)
DECLARE @Query NVARCHAR(4000)
EXEC xp_instance_regread N'HKEY_LOCAL_MACHINE', N'Software\Microsoft\MSSQLServer
\MSSQLServer', N'DefaultData', @DefaultDataDir OUTPUT
IF RIGHT(@DefaultDataDir, 1) <> '\'
    SET @DefaultDataDir += '\'

SET @Query = CONCAT('ALTER DATABASE [RestoreOnlySomeFilegroups] ADD FILE ( NAME = N''FReadOn
ly'', FILENAME = N'', @DefaultDataDir, 'FReadOnly.ndf') TO FILEGROUP [FGReadOnly]')
EXEC(@query)

SET @Query = CONCAT('ALTER DATABASE [RestoreOnlySomeFilegroups] ADD FILE ( NAME = N''FReadWr
ite'', FILENAME = N'', @DefaultDataDir, 'FReadWrite.ndf') TO FILEGROUP [FGReadWrite]')
EXEC(@query)
GO

USE [RestoreOnlySomeFilegroups]
GO
CREATE PARTITION FUNCTION [PFMixed] (BIT) AS RANGE RIGHT FOR VALUES (1)
GO
CREATE PARTITION SCHEME [PSMixed] AS PARTITION [PFMixed] TO ([FGReadWrite], [FGReadOnly])
GO

CREATE TABLE [TblMixed]
(
    ID INT NOT NULL,
    Archived BIT NOT NULL,
    PRIMARY KEY
    (
        ID,
        Archived
    ) ON [PSMixed] (Archived)
)
GO

INSERT INTO dbo.TblMixed (ID, Archived)
SELECT *
FROM (VALUES (1,1), (2,1), (3,1), (4,1), (5,1), (100,0), (101,0)) Tst (ID, Archived)
GO

ALTER DATABASE [RestoreOnlySomeFilegroups] MODIFY FILEGROUP [FGReadOnly] READONLY
GO
```

Verified on the following platforms

Windows 10	Yes
Windows Server 2012	No
Windows Server 2012 R2	Yes
Windows Server 2008 R2	No
Windows Server 2008	No
Windows Server 2003	No
Windows Server 2016	No
Windows 8	No
Windows 7	Yes
Windows Vista	No
Windows XP	No
Windows 2000	No

This script is tested on these platforms by the author. It is likely to work on other platforms as well. If you try it and find that it works on another platform, please add a note to the script discussion to let others know.

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