SQL_Guy On The Web

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How To Create a Corrupt SQL Server Database for Test Purposes

By Pezzar

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It's quite possible that at some point you may want to have the use of a corrupted SQL Server database for test or DR practice purposes. This is very easy to achieve as I will detail below.

For this exercise we merely need a Hex editor and the use of a SQL Server instance. Note: do not use a Production SQL Server instance!

I have chosen XVI32 as this editor is free of charge and requires no installation to take place, simply place the files into a folder and create a shortcut to the program.

The core database will be created using the following simple script. We'll go through the process in stages with diagrams to see exactly what's happening. Start with the code below;

Don't forget to modify any drive letters and paths before executing the script :-)

USE [master]

CREATE DATABASE [Corrupt2K8] ON PRIMARY

(NAME =N'Corrupt2K8', FILENAME=N'C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\Corrupt2K8.mdf

SIZE = 524288KB, MAXSIZE = UNLIMITED, FILEGROWTH = 1024KB)

LOG ON

(NAME = N'Corrupt2K8_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL10 50.MSSQLSERVER\MSSQL\DATA\Corrupt2K8 log.ldf,

SIZE = 262144KB , MAXSIZE = 2048GB , FILEGROWTH = 1024KB)

GO

USE [Corrupt2K8]

 $\textbf{IF} \ \mathsf{OBJECT_ID}(\texttt{'dbo}.\mathsf{NoddyTable'}, \texttt{'U'}) \ \mathsf{IS} \ \mathsf{NOT} \ \mathsf{NULL}$

BEGIN

DROP TABLE dbo.NoddyTable

END

CREATE TABLE dbo.NoddyTable(

NoddylD UNIQUEIDENTIFIER NOT NULL DEFAULT NEWID()

, NoddyName VARCHAR(128) NULL

, NoddyInt BIGINT NULL

, NoddyDate DATETIME NULL

)

INSERT INTO dbo.NoddyTable

 ${\tt SELECT\ NEWID(),\ name,\ ROUND(RAND(object_id)*856542,\ 0),\ GETDATE()\ FROM\ sys.columns}$

UNION ALL

 $\textbf{SELECT NEWID}(\textbf{)}, \textbf{name}, \textbf{ROUND}(\textbf{RAND}(\textbf{object_id})^* \ \textbf{1048576}, \textbf{0}), \textbf{GETDATE}(\textbf{)} \ \textbf{FROM} \ \textbf{sys.columns}$

ALTER TABLE dbo.NoddyTable ADD CONSTRAINT PK_NoddyID

PRIMARY KEY CLUSTERED (NoddyID)

WITH (IGNORE_DUP_KEY=OFF)

 ${\tt CREATE\ NONCLUSTERED\ INDEX\ IDX_NoddyName_NoddyDate}$

ON dbo.NoddyTable(NoddyName, NoddyDate)

WHERE NoddyName IN ('password', 'length', 'created', 'crtype', 'offset', 'intprop')

CREATE NONCLUSTERED INDEX IDX NoddyDate

 $\textcolor{red}{\textbf{ON}}~\textbf{dbo}.\textbf{NoddyTable}(\textbf{NoddyDate})$

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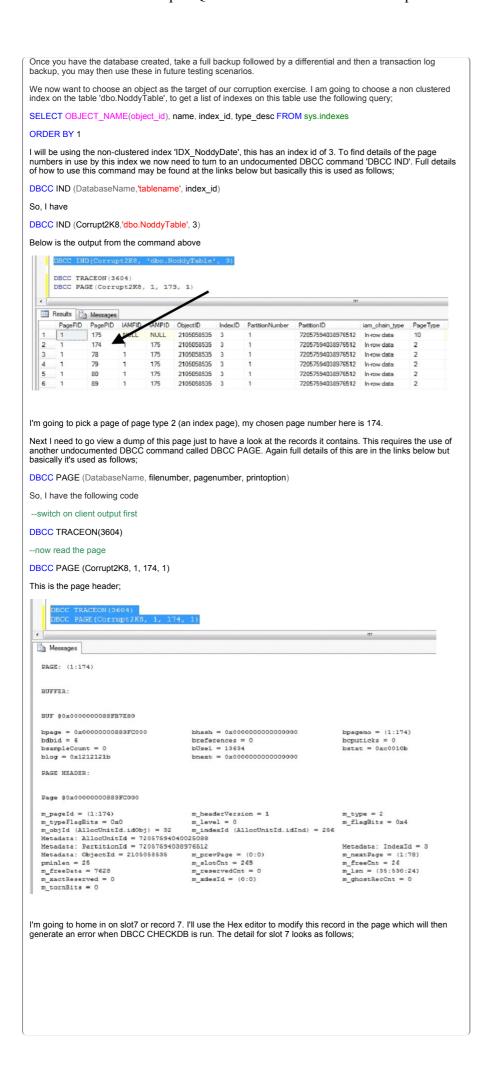
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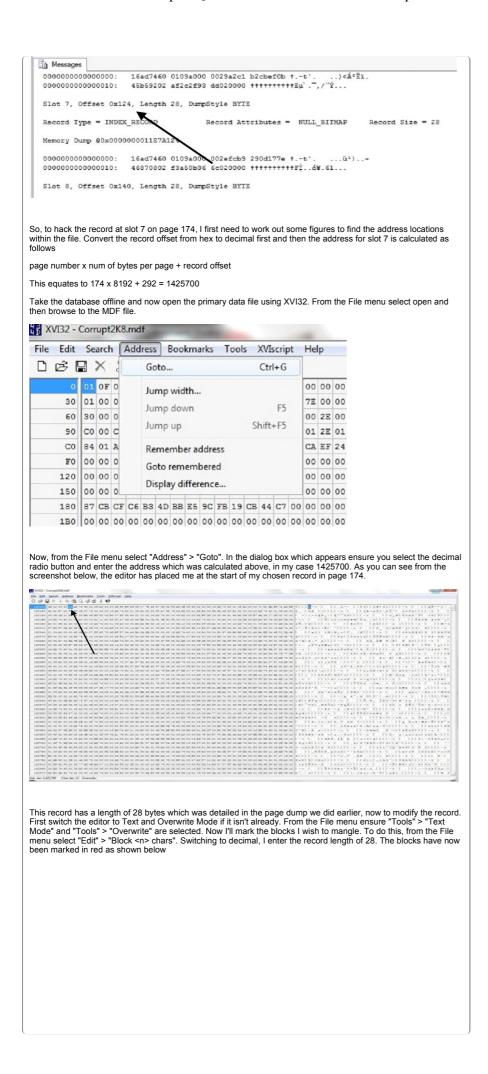
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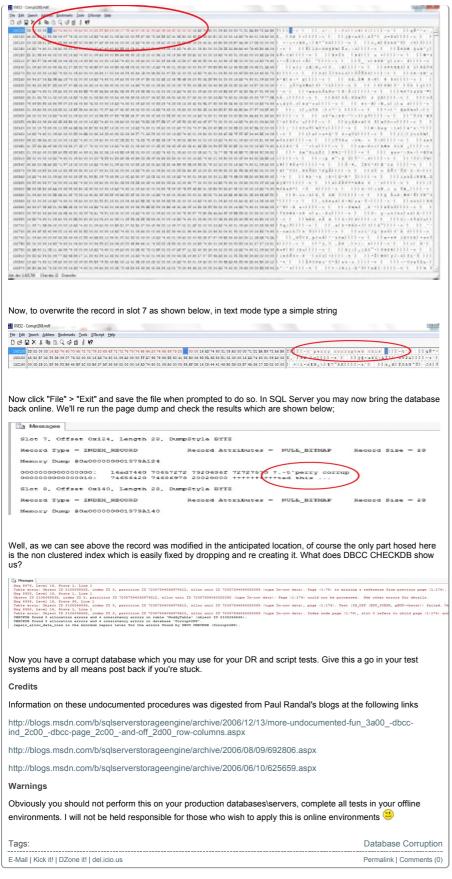
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