

Release free space of database

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QNE
SOFTWARE

QNE TIPS

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Amendment Record

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1.0	Creation	Jason Lee	21-Sep-2021	Weina Lee



SCENARIO

How to release free space in database?

SQL Database file are like a box container that constantly grow bigger to store your data but it does not auto shrink after data removed from database.

By default, SQL database are set not to auto shrink to reduce the time and resource required during grow and shrink process take place because it will affect the database performance but there is time that database shrink is required like after data purge or transactions cleared then you will need to release free space of the database.

(Shrinking database will

SOLUTION

1. First, check available free space in database
2. Launch SSMS and connect to your database
<https://support.qne.com.my/a/solutions/articles/81000385373>
3. Execute below query to find out Database's "Current Size" and "Free Space"

```
SELECT DB_NAME() AS DbName,  
       name AS FileName,  
       type_desc,  
       size/128.0 AS CurrentSizeMB,  
       size/128.0 - CAST(FILEPROPERTY(name, 'SpaceUsed') AS INT)/128.0 AS FreeSpaceMB  
FROM sys.database_files  
WHERE type IN (0,1);
```

4. You will get a result like below.

	DbName	FileName	type_desc	CurrentSizeMB	FreeSpaceMB
1	CLONED_DB	CLONED_DB	ROWS	8600.000000	2798.312500
2	CLONED_DB	CLONED_DB_log	LOG	24.882812	24.585937

5. In this example DB, my .mdf file size is 8,600MB and I have 2,798.31MB of free space after purging audit trail
6. Click New Query



7. Copy & paste below query
8. Replace [CLONED_DB] with your database name and execute query

```
USE [CLONED_DB]
GO
DBCC SHRINKDATABASE (N'CLONED_DB' )
GO
```

9. Wait patiently while SSMS executing the query, duration depend on the database's size
10. Once below message are shown mean release free space process has completed

Results		Messages				
	DbId	FileId	CurrentSize	MinimumSize	UsedPages	EstimatedPages
1	5	1	742408	12800	731248	731248
2	5	2	3185	3185	3184	3184

11. You can use Step No.3 query to check Database's "Current Size" and "Free Space"

Results		Messages			
	DbName	FileName	type_desc	CurrentSizeMB	FreeSpaceMB
1	CLONED_DB	SENGCHOON	ROWS	5800.062500	88.750000
2	CLONED_DB	SENGCHOON_log	LOG	24.882812	24.429687

12. Now, you have successfully release free space in your database.

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