

## Support Bulletin # 31 Shrinking Transaction Log in SQL Database

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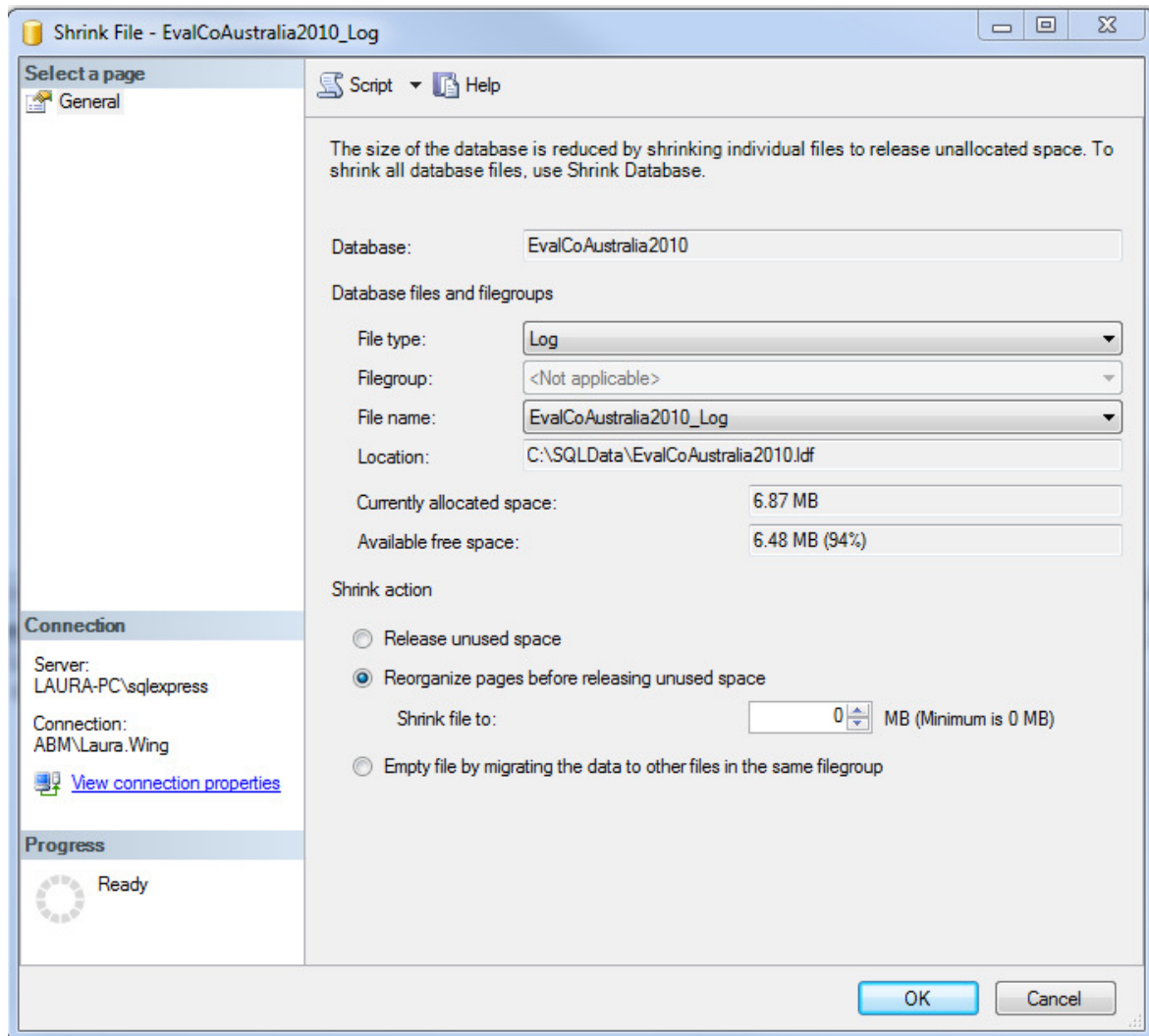
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### Shrinking the transaction log SQL Server Management Studio 2008

This topic describes how to shrink a data or log file by using Object Explorer in SQL Server Management Studio. The primary data file cannot be made smaller than the size of the primary file in the model database. Note that the Backup log <database name> with truncate\_only command is not supported in SQL 2008 or 2008 R2.

To shrink a log file:

1. In Object Explorer, connect to an instance of the SQL Server Database Engine and then expand that instance.
2. Expand Databases and then right-click the database that you want to shrink.
3. Point to Tasks, point to Shrink, and then click Files.
4. Select the file type Log and file name for the Log file will appear in File Name.
5. Optionally, select the Release unused space check box.  
Selecting this option causes any unused space in the file to be released to the operating system and shrinks the file to the last allocated extent. This reduces the file size without moving any data.
6. Optionally, select the Reorganize files before releasing unused space check box. If this is selected, the Shrink file to value must be specified. By default, the option is cleared.  
Selecting this option causes any unused space in the file to be released to the operating system and tries to relocate rows to unallocated pages.
7. Optionally, enter the maximum percentage of free space to be left in the database file after the database has been shrunk. Permissible values are between 0 and 99. This option is only available when Reorganize files before releasing unused space is enabled.
8. Optionally, select the Empty file by migrating the data to other files in the same filegroup check box.  
Selecting this option moves all data from the specified file to other files in the filegroup. The empty file can then be deleted. This option is the same as executing DBCC SHRINKFILE with the EMPTYFILE option.



9. Click OK.

## Shrinking the transaction log in SQL Server Enterprise Manager 2005

### IMPORTANT NOTE:

If a database file is repeatedly shrunk and expanded, the database file itself can become fragmented within the file system, which can degrade IO performance for the file.

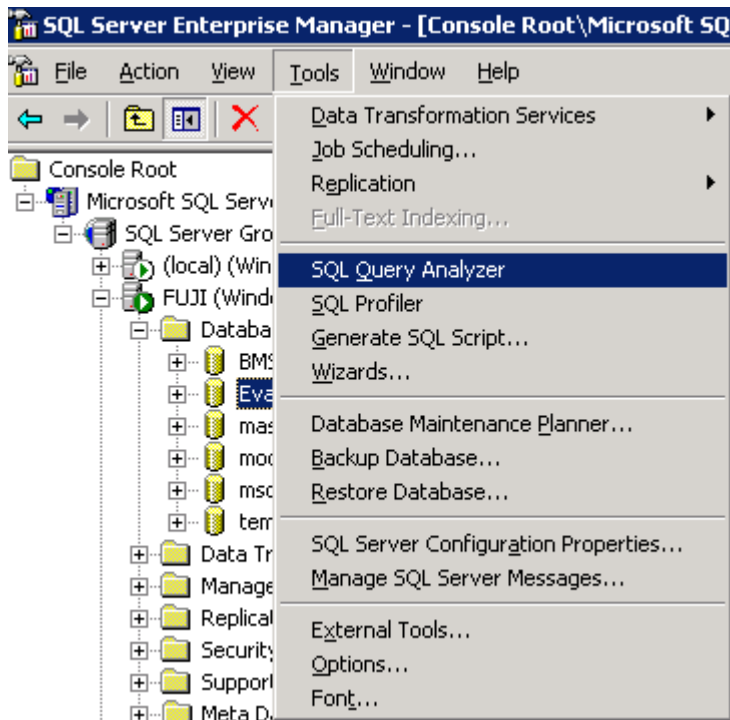
1. Open Enterprise Manager
2. Click on Tools then SQL Query Analyzer.

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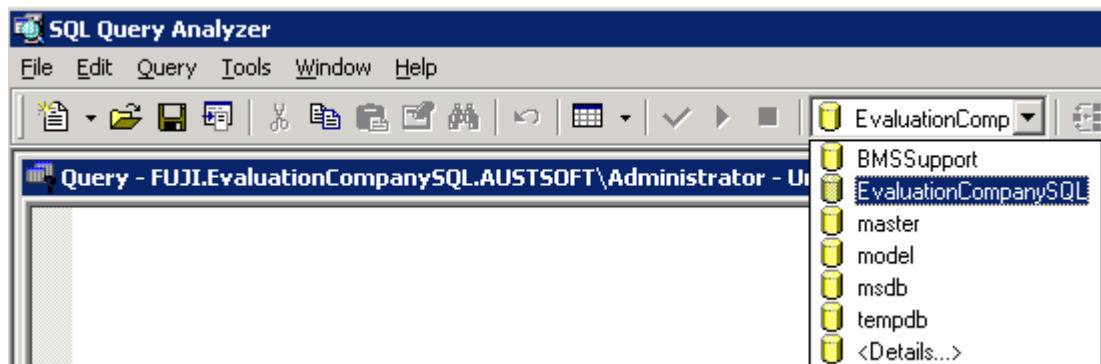


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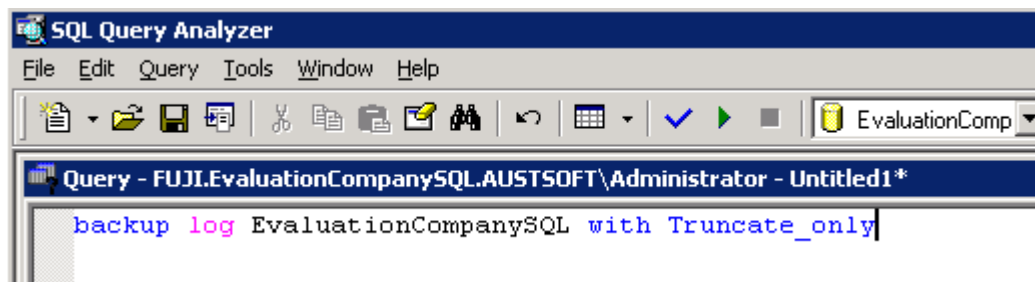
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3. Select the database you wish to run the “transaction log shrink script” on



4. In the Query window, type  
Backup log <database name> with truncate\_only  
and then press F5.



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5. Once this transaction log has been truncated you will then be able to use the shrink database utility in Enterprise Manager or run the following command in Query Analyzer

```
DBCC SHRINKDATABASE (<DATABASENAME>, TARGET_PERCENT)
```

## Shrinking the transaction log in SQL MSDE using OSQL

### IMPORTANT NOTE:

If a database file is repeatedly shrunk and expanded, the database file itself can become fragmented within the file system, which can degrade IO performance for the file.

For this example the following definitions:

```
Server Name is: FUJI  
Computer User Name is: ADMINISTRATOR  
Database name is: EVALUATIONCOMPANYSQL  
ODBC System DSN Database name: ABM-EVALUTATIONCOMPANYSQL
```

1. Open up a DOS command window (start/run/cmd)
2. At the command line enter the following set of commands:

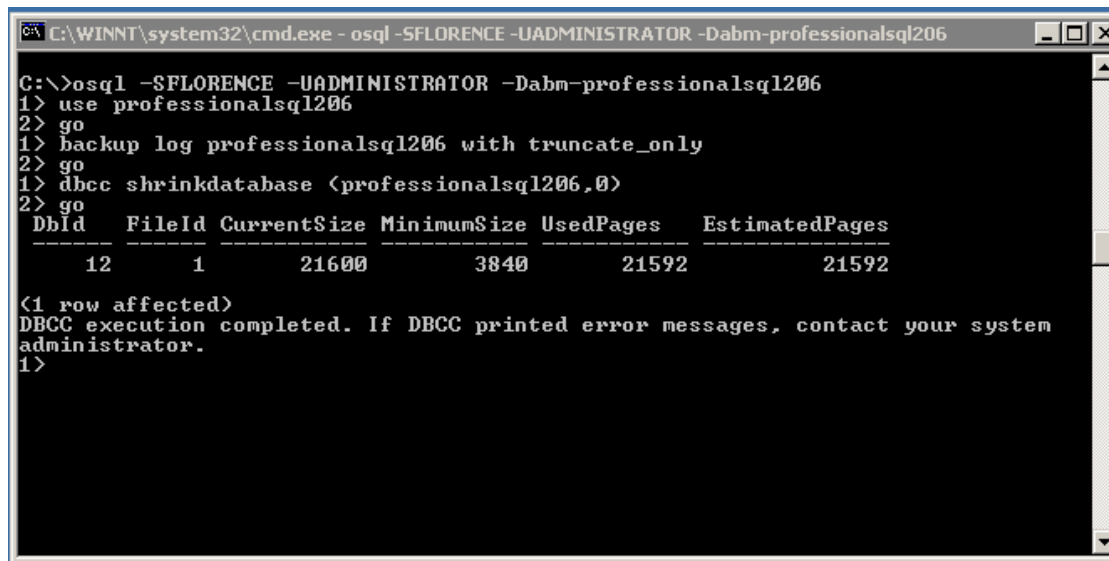
```
c:\>osql -SFuji -UADMINISTRATOR -DABM-evaluationCompanySQL  
1>use evaluationcompanysql  
2>go  
1>backup log evaluationcompanysql with truncate_only  
2>go  
1>dbcc shrinkdatabase (evaluationcompanysql,0)  
2>go  
1>exit
```

THE FOLLOWING MESSAGE WILL BE RETURNED WHEN SHRINK IS COMPLETE:

Dbld	Fileld	CurrentSize	MinimumSize	UsedPages	EstimatedPages
12	1	21712	3840	21592	21592
12	2	768	768	768	768

(2 rows affected)

DBCC execution completed. If DBCC printed error messages, contact your system administrator.



```
C:\WINNT\system32\cmd.exe - osql -SFLORENCE -UADMINISTRATOR -Dabm-professionalsql206

C:\>osql -SFLORENCE -UADMINISTRATOR -Dabm-professionalsql206
1> use professionalsql206
2> go
1> backup log professionalsql206 with truncate_only
2> go
1> dbcc shrinkdatabase <professionalsql206,0>
2> go
 DbId  FileId  CurrentSize  MinimumSize  UsedPages  EstimatedPages
-----
    12     1         21600         3840         21592         21592

<1 row affected>
DBCC execution completed. If DBCC printed error messages, contact your system
administrator.
1>
```

## OSQL Command for setting the database recovery model to simple:

```
c:\>osql -SFuji -UADMINISTRATOR -DABM-evaluationCompanySQL
1>alter database evaluationcompanysql set recovery simple
2>go1>exit
```

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