

## Support Bulletin # 28 How to Re-Index and Repair a SQL Database

### Table of Contents

Re-Index Command.....	1
MSDE .....	1
ENTERPRISE MANAGER .....	1
EXAMPLE SCRIPT FILE.....	1
CheckDB Command.....	2
Instructions to repair if needed: .....	2

### Re-Index Command

#### *MSDE*

If you don't have Enterprise Manager you can run script files the SQL Tools provided with ABM.

You can do this by the following steps:

1. Run ABM and log in
2. On the company list select the "Database Tools -> SQL Server Tools" menu
3. Connect to the appropriate SQL Server
4. Select the appropriate SQL Database from the list presented (click on it)
5. Select the "Database -> Run Script" menu
6. Find the script file (sample attached) and select it - the script will now run

#### *ENTERPRISE MANAGER / SQL Studio Manager*

If you have the SQL Enterprise Manager then you can enter this by:

1. Select the SQL Company on the tree list
2. Tools Menu -> SQL Query Analyser
3. In the command window type `dbcc dbreindex ('TABLENAME')`

#### *EXAMPLE SCRIPT FILE*

The following example is a script file that will re-build indexes in the nominated tables as well doing a nice job of defragging indexes.

```
dbcc dbreindex ('TRANSDetails')
GO
dbcc dbreindex ('TRANSHEADERS')
GO
dbcc dbreindex ('TRANSOFFSETS')
GO
```

## CheckDB Command

If errors occur during the reindexing process or you suspect a corrupt database you can run the DBCC CHECKTABLE or DBCC CHECKDB command on a dataset or table and SQL will inform you of any consistency errors..

DBCC CHECKDB ('database\_name')

The consistency error message will include the object id (table), the index id and the appropriate lowest level of repair which is used when running CHECKDB with a repair parameter.

### *Instructions to repair if needed:*

This is an example of running with a repair\_allow\_data\_loss parameter.

To run the repair from Enterprise Manager:

1. Backup the database
2. From Query Analyser enter the command

DBCC CHECKDB ('database\_name', REPAIR\_ALLOW\_DATA\_LOSS)

3. If you get an error from SQL relating to "Single User Mode" you will need to change the Database into Single-user mode and try running the script again. If you still get errors, close the query window and re-open a new query. To change the database into Single User Mode:

- right click on the database select properties
- select options/state/restrict access - select SingleUserMode
- after you run the script checkdb you will have to change it back to MultiUserMode

4. Check the report after the script is complete and verify the data was repaired (like the messages above).

### *NOTE for SQL 2000 servers:*

If your database is in single user mode you will not be able to have Enterprise Manager open and run the repair query in Query analyser at the same time. You will need to close Enterprise Manager prior to running the repair script.

If you run the scripts below from Query Analyser you don't need to first put the database in single user mode as these scripts will put the database in single-user mode, run the repair, then change the database back to multi-user mode.

# Advanced Business Manager Pty Ltd



Suite 2/599 Doncaster Road  
Doncaster, VIC 3108  
ACN 073 061 677

Email: [abmsupport@advancedbusinessmanager.com.au](mailto:abmsupport@advancedbusinessmanager.com.au)  
Tel: (03) 9532 4199 Fax: (03) 9840 1799  
Website: [www.advancedbusinessmanager.com.au](http://www.advancedbusinessmanager.com.au)

## SQL Scripts to change to single-user mode and run the repair:

```
use master
```

```
go
```

```
ALTER DATABASE database_name  
SET SINGLE_USER  
WITH ROLLBACK IMMEDIATE
```

```
go
```

```
DBCC CHECKDB (' database_name ',repair_allow_data_loss)
```

```
go
```

```
ALTER DATABASE delta  
SET MULTI_USER  
WITH ROLLBACK IMMEDIATE
```

```
go
```

\*THIS BULLETIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. The information contained in this document represents the current view of Advanced Business Manager on the issues discussed as of the date of publication. Because Advanced Business Manager must respond to change in market conditions, it should not be interpreted to be a commitment on the part of Advanced Business Manager and Advanced Business Manager cannot guarantee the accuracy of any information presented after the date of publication.

INFORMATION PROVIDED IN THIS DOCUMENT IS PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND FREEDOM FROM INFRINGEMENT.

The user assumes the entire risk as to the accuracy and the use of this document.