



Hotcakes

PRESENTS

DNN Database Tips & Tricks



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DNN Database Tips & Tricks

WHY?



DNN DATABASE TIPS & TRICKS

Why?

- Can't get to the UI
- Troubleshoot development
- Quick fix/edit
- It's the only way or faster
- Repeatable scripts
- Database information
- Wipe out a database



AUTOMATE!



Scott
Hanselman

Principal Program Manager at Microsoft

HANSELMINUTES.COM

“If you have to do it more than once and it can be automated,
automate it!”



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CAUTION
THIS MACHINE
HAS NO BRAIN
USE YOUR OWN

DNN SQL SCRIPTS

SQL Server Management Studio

```
SELECT *
FROM [dbo].[Users]
ORDER BY [CreatedOnDate] DESC;
```

DNN > Host > SQL

```
SELECT *
FROM {databaseOwner}[{objectQualifier}Users]
ORDER BY [CreatedOnDate] DESC;
```





CLEAR SPACE

CLEAR SPACE

Symptoms

- Tables have too much data
- Page loads consistently slow
- Event Viewer page won't load

Problem

- EventLog is too big
- SiteLog is too big



CLEAR SPACE

```
DELETE FROM [dbo].[EventLog];
-- or
TRUNCATE TABLE [dbo].[EventLog];
```

```
DELETE FROM [dbo].[SiteLog];
-- or
TRUNCATE TABLE [dbo].[SiteLog];
```



CLEAR SPACE

Better...

```
DELETE FROM [dbo].[EventLog]
WHERE [LogCreateDate] <= DATEADD(day, -30, GETDATE());
```

```
DELETE FROM [dbo].[SiteLog]
WHERE [DateTime] <= DATEADD(day, -30, GETDATE());
```





CHANGE DBO ROLE OWNER

CHANGE DBO ROLE OWNER

Symptoms

- [Create|Drop] failed for user '`<username>`'.
- User, group, or role '`<username>`' already exists in the current database.
- The database principal owns a database role and cannot be dropped.

Problem

- Your database already has a user of the same name
- Common across development teams



<http://bit.ly/changednnroleowner>

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CHANGE DBO ROLE OWNER

```
ALTER AUTHORIZATION ON ROLE::[aspnet_Membership_FullAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Membership_BasicAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Membership_ReportAccess] TO [dbo];

/*
-- Necessary for Pre DNN 7.x
ALTER AUTHORIZATION ON ROLE::[aspnet_Profile_FullAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Profile_BasicAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Profile_ReportAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Membership_FullAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Roles_FullAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Roles_BasicAccess] TO [dbo];
ALTER AUTHORIZATION ON ROLE::[aspnet_Roles_ReportAccess] TO [dbo];
*/
```

DROP USER <your_username>;





CHANGE OR REPLACE THEMES

CHANGE OR REPLACE THEMES

Symptoms

- Have a rogue theme
- Need to replace theme
- Need to start fresh

Problem

- No tool to reset theme
- Resetting theme manually is too time consuming
- Resetting the theme is dangerous



<http://bit.ly/cleardnnskins>

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CHANGE OR REPLACE THEMES

Find & Clear Default Site Settings

```
-- find site settings for default theme settings
SELECT [PortalID],[SettingName],[SettingValue]
FROM [dbo].[PortalSettings]
WHERE [SettingName] IN (N'DefaultAdminContainer', N'DefaultAdminSkin',
N'DefaultPortalContainer', N'DefaultPortalSkin')
AND [PortalID] = 0;

-- update the site settings to remove the default theme settings
UPDATE [dbo].[PortalSettings]
SET [SettingValue] = NULL
WHERE [SettingName] IN (N'DefaultAdminContainer', N'DefaultAdminSkin',
N'DefaultPortalContainer', N'DefaultPortalSkin')
AND [PortalID] = 0;
```



CHANGE OR REPLACE THEMES

Find & Clear Page Settings

```
-- find pages with the skin set
SELECT [TabID],[PortalID],[TabName],[SkinSrc],[ContainerSrc]
FROM [dbo].[Tabs];

-- update all pages to remove skin settings
UPDATE [dbo].[Tabs]
SET [SkinSrc] = NULL, [ContainerSrc] = NULL
WHERE [PortalID] = 0;
```



CHANGE OR REPLACE THEMES

Find & Clear Module Settings

```
-- find modules with the container set
SELECT [TabModuleID],[TabID],[ModuleID],[ContainerSrc]
FROM [dbo].[TabModules];

-- update all modules to remove container settings
UPDATE [dbo].[TabModules]
SET [SkinSrc] = NULL,
[ContainerSrc] = NULL
WHERE [PortalID] = 0;
```



CHANGE OR REPLACE THEMES

Find & Replace Page Settings

```
-- find pages with the skin set
```

```
SELECT [TabID],[PortalID],[TabName],[SkinSrc],[ContainerSrc]  
FROM [dbo].[Tabs]  
WHERE [SkinSrc] LIKE N'%FutureGravity%' OR [ContainerSrc] LIKE N'%FutureGravity%';
```

```
-- update all pages to remove skin settings
```

```
UPDATE [dbo].[Tabs]  
SET [SkinSrc] = REPLACE([SkinSrc], N'FutureGravity', N'Gravity'),  
[ContainerSrc] = REPLACE([ContainerSrc], N'FutureGravity', N'Gravity')  
WHERE [PortalID] = 0;
```





DATABASE OBJECT SIZES

DATABASE OBJECT SIZES

Symptoms

- Database fails
- Disk space errors
- Page load performance issues
- Web host limits reached

Problem

- The size of one or many database objects are too large



<http://bit.ly/dnndbsize>

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DATABASE SIZE

```
SELECT
    CASE TYPE
        WHEN 'U'
            THEN 'User Defined Tables'
        WHEN 'S'
            THEN 'System Tables'
        WHEN 'IT'
            THEN 'Internal Tables'
        WHEN 'P'
            THEN 'Stored Procedures'
        WHEN 'PC'
            THEN 'CLR Stored Procedures'
        WHEN 'X'
            THEN 'Extended Stored Procedures'
    END,
    COUNT(*)
FROM SYS.OBJECTS
WHERE TYPE IN ('U', 'P', 'PC', 'S', 'IT', 'X')
GROUP BY TYPE
```

```
SELECT
    database_name = DB_NAME(database_id)
    , log_size_mb = CAST(SUM(CASE WHEN type_desc = 'LOG' THEN size END) * 8. / 1024 AS DECIMAL(8,2))
    , row_size_mb = CAST(SUM(CASE WHEN type_desc = 'ROWS' THEN size END) * 8. / 1024 AS DECIMAL(8,2))
    , total_size_mb = CAST(SUM(size) * 8. / 1024 AS DECIMAL(8,2))
FROM sys.master_files WITH(NOWAIT)
WHERE database_id = DB_ID() -- for current db
GROUP BY database_id
```

TABLE SIZE

```
-- For storing values in the cursor
DECLARE @TableName VARCHAR(100);

-- Cursor to get the name of all user tables from the sysobjects listing
DECLARE [tableCursor] CURSOR FOR
SELECT [name]
FROM [dbo].[sysobjects]
WHERE OBJECTPROPERTY([id], N'IsUserTable') = 1
FOR READ ONLY;

-- A procedure level temp table to store the results
CREATE TABLE #TempTable (
[tableName] VARCHAR(100),
[numberofRows] VARCHAR(100),
[reservedSize] VARCHAR(50),
[dataSize] VARCHAR(50),
[indexSize] VARCHAR(50),
[unusedSize] VARCHAR(50)
);

-- Open the cursor
OPEN [tableCursor];

-- Get the first table name from the cursor
FETCH NEXT FROM [tableCursor] INTO @TableName;

-- Loop until the cursor was not able to fetch
WHILE (@@Fetch_Status >= 0)
BEGIN
-- Dump the results of the sp_spaceused query to the temp table
sp_spaceused @TableName, @TableName
INSERT INTO #TempTable ([tableName], [numberofRows], [reservedSize], [dataSize], [indexSize], [unusedSize])
VALUES (@TableName, @@ROWCOUNT, CAST(reserved AS VARCHAR(50)), CAST(data AS VARCHAR(50)), CAST(index AS VARCHAR(50)), CAST(unused AS VARCHAR(50))
```





TAKE OVER A SITE LOCALLY

TAKE OVER A SITE LOCALLY

Symptoms

- Site inheritance issues
- Need to create a login
- Need to change user to host

Problem

- Support has a time limit
- Need to do this repeatedly
- Production/local URL mismatch
- Default URL setting gets in the way



TAKE OVER A SITE LOCALLY

```
/* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  
must be run before being able to see the site  
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * */  
  
DECLARE @NewAlias NVARCHAR(255), @PortalId INT;  
  
SET @NewAlias = N'somenewdomain.loc';  
SET @PortalId = 0;  
  
-- change the old site URL to the new local one  
IF NOT EXISTS (SELECT 1 FROM [dbo].[PortalAlias] WHERE [HTTPAlias] = @NewAlias)  
BEGIN  
    INSERT INTO [dbo].[PortalAlias] ([PortalID], [HTTPAlias], [CreatedByUserID], [CreatedOnDate],  
    [LastModifiedByUserID], [LastModifiedOnDate], [IsPrimary])  
    VALUES (@PortalId, @NewAlias, -1, GETDATE(), -1, GETDATE(), 1);  
  
    UPDATE [dbo].[PortalAlias]  
    SET [IsPrimary] = 0  
    WHERE NOT [HTTPAlias] = @NewAlias AND [PortalId] = @PortalId;  
END  
ELSE  
BEGIN  
    UPDATE [dbo].[PortalAlias]  
    SET [IsPrimary] = 1  
    WHERE [HTTPAlias] = @NewAlias;
```



The passing of the buck...

NEED MORE INFO?

Paul Scarlett

Adv. Systems Developer, HP Enterprise Services

- Long time DNN enthusiast
- SqlGridSelectedView
- SQL expert
- TressleWorks.ca
- @PaulScarlett





Thank you!

<http://bit.ly/dnnsqlscripts>

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