

MS SQL Express Server

Installations-Anleitung JTL:

<https://guide.jtl-software.de/jtl-wawi/installation/installation-des-microsoft-sql-server-express/>



Bis WAWI 1.5 kann der MS SQL Express Server 2014 installiert werden
Ab WAWI 1.6 sollte der MS SQL Express Server 2017 installiert werden

Neuinstallation von MS SQL Express Server 2017:

<https://www.microsoft.com/de-DE/download/details.aspx?id=55994>

Neuste Updates für den 2017 Server findet man hier:

<https://www.microsoft.com/de-de/download/details.aspx?id=56128>

MS SQL Express 2019 Server: <https://www.microsoft.com/de-de/download/details.aspx?id=101064>

MS SQL Express 2019 Updates: <https://www.microsoft.com/de-DE/download/details.aspx?id=100809>

Komplette Übersicht:

<https://docs.microsoft.com/de-de/sql/database-engine/install-windows/latest-updates-for-microsoft-sql-server?view=sql-server-ver15>

Installationsleitfaden für SQL Server:

<https://docs.microsoft.com/de-de/sql/database-engine/install-windows/install-sql-server?view=sql-server-ver15>

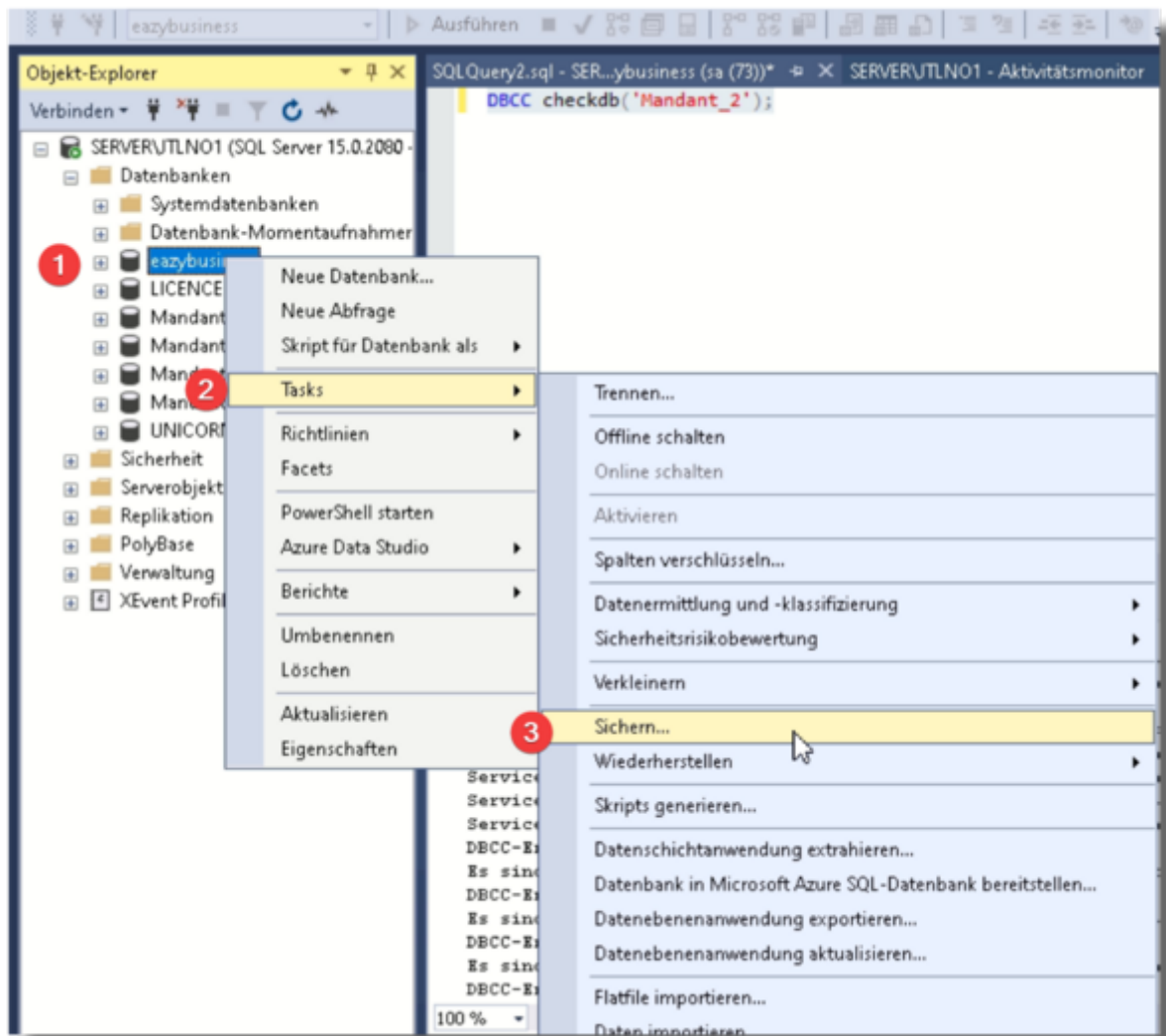
Kommandos

DBCC checkdb('Mandant_2');	prüft die Datenbank
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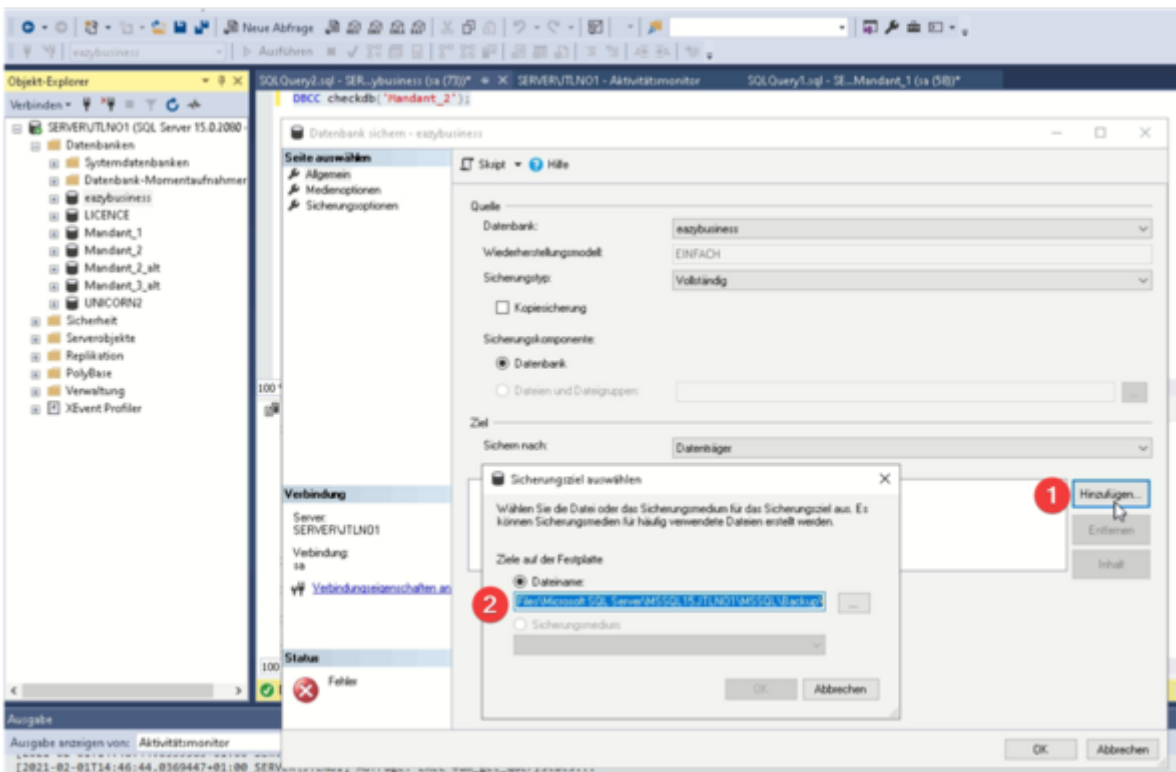
SSMS SQL Management Studio starten

Datenbank sichern

Dazu im Management Studio die Datenbank auswählen und mit der rechten Maustaste das SubMenü TASKS auswählen und anschließend auf SICHERN gehen.

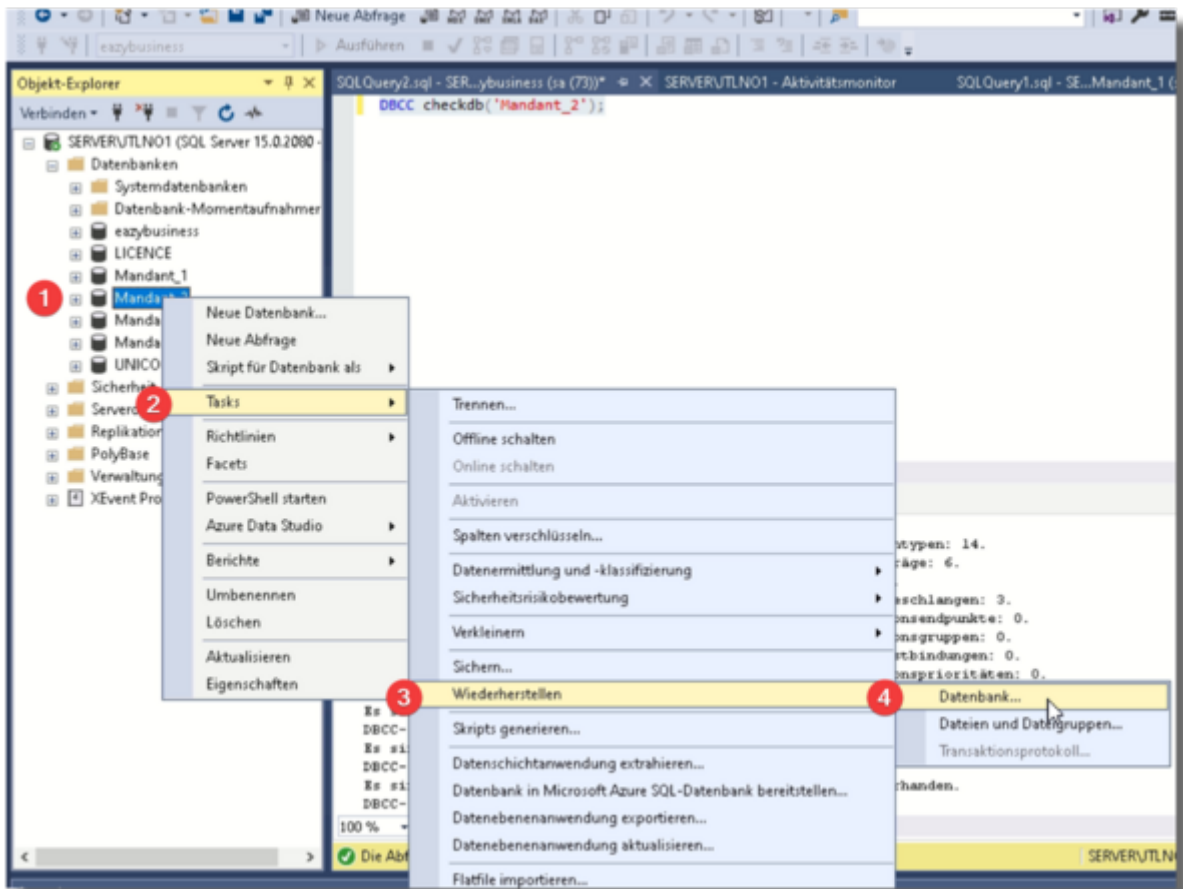


Nicht vergessen das Sichungsziel anzugeben (Dateiname)

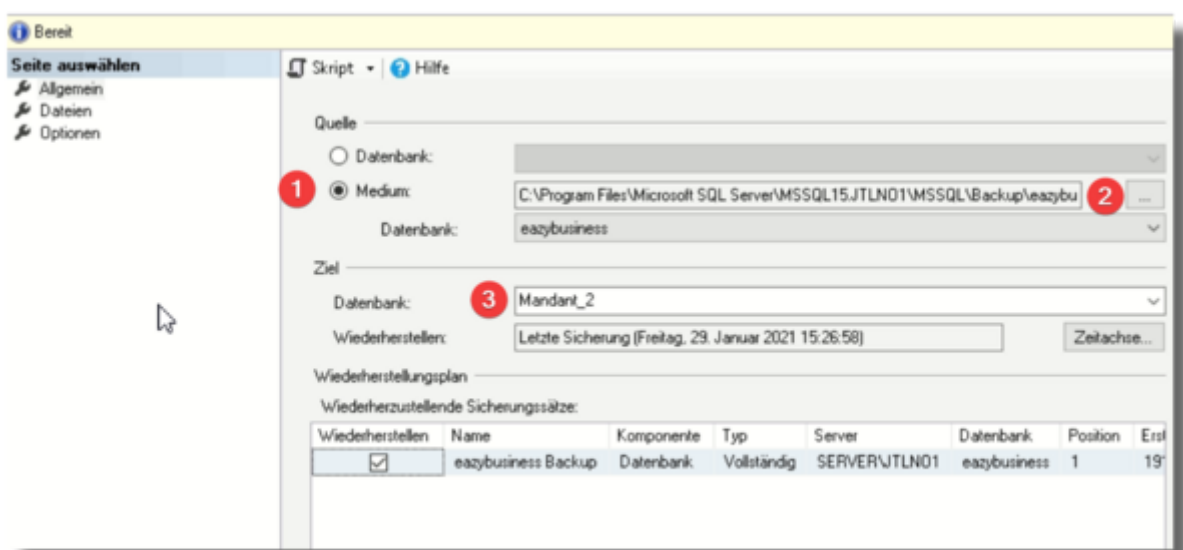


Datenbank wiederherstellen

Zum wiederherstellen die Datenbank auswählen, mit rechts Klick auf **TASKS** und **WIEDERHERSTELLEN** → **Datenbank** klicken.



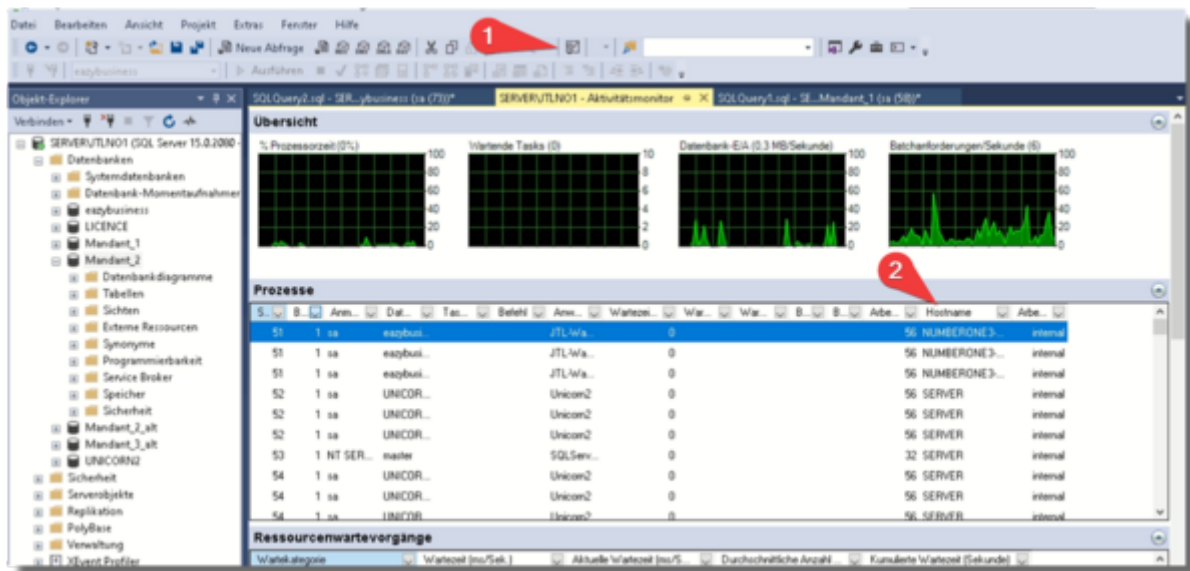
Wie mit den Punkten 1-3 beschrieben die Datensicherung und die Datenbank auswählen.



Wenn beim Wiederherstellen von Datenbanken es Probleme gibt mit den Datenbanknamen dann in den Optionen **Überschreiben** anklicken

Angemeldete User sehen

Um herauszufinden welcher User noch welche Datenbank offen hat ruf man den Aktivitätsmonitor auf und schaut unter Prozesse in der Spalte Hostname nach.



MS SQL Version herausfinden

Um zu prüfen welche Version man installiert hat kann man folgendes Script ausführen:

[version.sql](#)

```

-----
-- The sample scripts are not supported under any Microsoft standard
-- support
-- program or service. The sample scripts are provided AS IS without
-- warranty
-- of any kind. Microsoft further disclaims all implied warranties
-- including,
-- without limitation, any implied warranties of merchantability or of
-- fitness for
-- a particular purpose. The entire risk arising out of the use or
-- performance of
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-- production, or
-- delivery of the scripts be liable for any damages whatsoever
-- (including,
-- without limitation, damages for loss of business profits, business
-- interruption,
-- loss of business information, or other pecuniary loss) arising out
-- of the use

```

```
-- of or inability to use the sample scripts or documentation, even if
Microsoft
-- has been advised of the possibility of such damages

-- The script is not compatible with SQL Server 2000 and SQL Server
2005, please upgrade your SQL Server to newer edition.
```

```
-----
-----

DECLARE @ProductVersion      NVARCHAR(20)
DECLARE @ProductLevel        NVARCHAR(20)
DECLARE @UpdateLevel         NVARCHAR(20)
DECLARE @UpdateRef           NVARCHAR(20)
DECLARE @UpdateRefOutput     NVARCHAR(200) = ''
DECLARE @Edition             NVARCHAR(100)

DECLARE @ProductName          NVARCHAR(30)
DECLARE @TheLastVersion      NVARCHAR(100)
DECLARE @OtherProduct        NVARCHAR(800)
DECLARE @SPIInfo             NVARCHAR(400)
DECLARE @CUIInfo             NVARCHAR(400)

DECLARE @CumulativeUpdate    NVARCHAR(20)
DECLARE @CumulativeUpdateKB  NVARCHAR(100)
DECLARE @EditionID           sql_variant

DECLARE @ExtendedSupport     NVARCHAR(500)
DECLARE @MainSupportNonUpdate NVARCHAR(500)
DECLARE @MainSupport         NVARCHAR(500)

DECLARE @2017E               NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Enterprise'
DECLARE @2017BI              NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Business Intelligence'
DECLARE @2017Std             NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Standard'
DECLARE @2017Web             NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Web'
DECLARE @2017Exp             NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Express'
DECLARE @2017Dev             NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Developer'
DECLARE @2017Eval           NVARCHAR(50) = + CHAR(13) + 'SQL Server 2017
Evaluation'

DECLARE @2016E               NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Enterprise'
DECLARE @2016BI              NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Business Intelligence'
DECLARE @2016Std             NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
```

```

Standard'
DECLARE @2016Web NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Web'
DECLARE @2016Exp NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Express'
DECLARE @2016Dev NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Developer'
DECLARE @2016Eval NVARCHAR(50) = + CHAR(13) + 'SQL Server 2016
Evaluation'

DECLARE @2014E NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Enterprise'
DECLARE @2014BI NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Business Intelligence'
DECLARE @2014Std NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Standard'
DECLARE @2014Web NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Web'
DECLARE @2014Exp NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Express'
DECLARE @2014Dev NVARCHAR(50) = + CHAR(13) + 'SQL Server 2014
Developer'

DECLARE @2012E NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Enterprise'
DECLARE @2012BI NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Business Intelligence'
DECLARE @2012Std NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Standard'
DECLARE @2012Web NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Web'
DECLARE @2012Exp NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Express'
DECLARE @2012Dev NVARCHAR(50) = + CHAR(13) + 'SQL Server 2012
Developer'

DECLARE @2008R2E NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Enterprise'
DECLARE @2008R2Dat NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Datacenter'
DECLARE @2008R2Std NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Standard'
DECLARE @2008R2Wg NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Workgroup'
DECLARE @2008R2Dev NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Developer'
DECLARE @2008R2ExpAdv NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008 R2
Express with Advanced'

DECLARE @2008E NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008
Enterprise'

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DECLARE @2008Std          NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008
Standard'
DECLARE @2008Wg           NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008
Workgroup'
DECLARE @2008Dev          NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008
Developer'
DECLARE @2008ExpAdv       NVARCHAR(50) = + CHAR(13) + 'SQL Server 2008
Express with Advanced'

SET @ExtendedSupport = 'Support Lifecycle stage: Extended Support
Phase. For additional information refer to '
                        + CHAR(13) +
'https://support.microsoft.com/en-us/lifecycle/search?sort=PN&alpha=SQL
%20Server&Filter=FilterN0, and Q6, Q18'
                        + CHAR(13) + 'in the FAQ section of Support
Lifecycle page at:
https://support.microsoft.com/en-us/lifecycle#gp/lifePolicy'

SET @MainSupportNonUpdate = 'Support Lifecycle stage: Mainstream
Support Phase, however security/non-security updates are not available
for'
                        + CHAR(13) + 'current 2012 baseline. Upgrade to
SP2 for security/Non-security updates. For additional information refer
to:'
                        + CHAR(13) +
'https://support.microsoft.com/en-us/lifecycle/search?sort=PN&alpha=SQL
%20Server&Filter=FilterN0, and Q6, Q18'
                        + CHAR(13) + 'in the FAQ section of Support
Lifecycle page at:
https://support.microsoft.com/en-us/lifecycle#gp/lifePolicy'

SET @MainSupport = 'Support Lifecycle stage: Mainstream Support
Phase. For additional information refer to '
                        + CHAR(13) +
'https://support.microsoft.com/en-us/lifecycle/search?sort=PN&alpha=SQL
%20Server&Filter=FilterN0, and Q6, Q18'
                        + CHAR(13) + 'in the FAQ section of Support
Lifecycle page at:
https://support.microsoft.com/en-us/lifecycle#gp/lifePolicy'

SET @EditionID           = SERVERPROPERTY('EditionID')
SET @ProductVersion      =
CONVERT(NVARCHAR(20),SERVERPROPERTY('ProductVersion'))
SET @ProductLevel        =
CONVERT(NVARCHAR(20),SERVERPROPERTY('ProductLevel'))
SET @UpdateLevel         =
ISNULL(CONVERT(NVARCHAR(20),SERVERPROPERTY('ProductUpdateLevel')), '')
SET @UpdateRef           =
ISNULL(CONVERT(NVARCHAR(20),SERVERPROPERTY('@UpdateRef')), '')
SET @Edition             =
CONVERT(NVARCHAR(100),SERVERPROPERTY('Edition'))

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SELECT @ProductName =
    CASE SUBSTRING(@ProductVersion,1,4)
        WHEN '14.0' THEN 'SQL Server 2017'
        WHEN '13.0' THEN 'SQL Server 2016'
        WHEN '12.0' THEN 'SQL Server 2014'
        WHEN '11.0' THEN 'SQL Server 2012'
        WHEN '10.5' THEN 'SQL Server 2008 R2'
        WHEN '10.0' THEN 'SQL Server 2008'
    END,
@TheLastVersion =
    CASE SUBSTRING(@ProductVersion,1,4)
        WHEN '14.0' THEN 'SQL Server 2017 RTM'
        WHEN '13.0' THEN 'SQL Server 2016 SP1'
        WHEN '12.0' THEN 'SQL Server 2014 SP2'
        WHEN '11.0' THEN 'SQL Server 2012 SP4'
        WHEN '10.5' THEN 'SQL Server 2008 R2 SP3'
        WHEN '10.0' THEN 'SQL Server 2008 SP4'
    END

DECLARE @Temp1 NVARCHAR(100) = 'You have already installed the latest
service pack.'
DECLARE @Temp12 NVARCHAR(100) = 'Install the latest service pack:
'

SELECT @SPIInfo =
    CASE @ProductName
        WHEN 'SQL Server 2016' THEN
            CASE @ProductLevel
                WHEN 'SP1' THEN @Temp1
            ELSE @Temp12 + 'SP1, <https://support.microsoft.com/en-us/kb/3182545>'
            END
        WHEN 'SQL Server 2014' THEN
            CASE @ProductLevel
                WHEN 'SP2' THEN @Temp1
            ELSE @Temp12 + 'SP2, <https://support.microsoft.com/en-us/kb/3171021>'
            END
        WHEN 'SQL Server 2012' THEN
            CASE @ProductLevel
                WHEN 'SP4' THEN @Temp1
            ELSE @Temp12 + 'SP4, <https://support.microsoft.com/en-us/kb/4018073>'
            END
        WHEN 'SQL Server 2008 R2' THEN
            CASE @ProductLevel
                WHEN 'SP3' THEN @Temp1
            ELSE @Temp12 + 'SP3, <https://support.microsoft.com/en-us/kb/2979597>'
            END
        WHEN 'SQL Server 2008' THEN
            CASE @ProductLevel
                WHEN 'SP4' THEN @Temp1
            ELSE @Temp12 + 'SP4, <https://support.microsoft.com/en-us/kb/2979596>'
            END
    END

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        END,
        @CUInfo =
        CASE @ProductName
            WHEN 'SQL Server 2017' THEN CASE @ProductVersion
                WHEN '14.0.3022.28'
            THEN 'You have already installed the latest cumulative update.'
                ELSE 'Install the
latest Cumulative Update (CU) of RTM: CU4,
<https://support.microsoft.com/en-us/kb/4056498>'
            END
            WHEN 'SQL Server 2016' THEN
                CASE @ProductVersion
                    WHEN '13.0.4466.4' THEN
            'You have already installed the latest cumulative update.'
                    ELSE 'Install the
latest Cumulative Update (CU) of SP1: CU7,
<https://support.microsoft.com/en-us/kb/4057119>'
            END
            WHEN 'SQL Server 2014' THEN
                CASE @ProductVersion
                    WHEN '12.0.5571.0' THEN
            'You have already installed the latest cumulative update.'
                    ELSE 'Install the
latest Cumulative Update (CU) of SP2: CU10,
<https://support.microsoft.com/en-us/kb/4052725>'
            END
            WHEN 'SQL Server 2012' THEN
                CASE @ProductVersion
                    WHEN '11.0.7001.0' THEN
            'You have already installed the latest cumulative update.'
                    ELSE 'Install the
latest Cumulative Update (CU) of SP4: RTW/PCU4,
<https://support.microsoft.com/en-us/kb/4018073>'
            END

            --WHEN 'SQL Server 2008 R2' THEN
            --WHEN 'SQL Server 2008' THEN

        END

IF (@UpdateRef <> '')
BEGIN
    SET @UpdateRefOutput = @UpdateRef + ' (' +
    'https://support.microsoft.com/kb/' + SUBSTRING(@UpdateRef, 3, 10) + ')'
END

IF (@ProductName = 'SQL Server 2008')
BEGIN

    IF (@ProductLevel = 'RTM') AND (@ProductVersion < '10.00.1835.00')
    BEGIN
        SET @CumulativeUpdate = 'CU10'; SET @CumulativeUpdateKB =

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'https://support.microsoft.com/en-us/kb/979064';
END
ELSE IF (@ProductLevel = 'SP1') AND (@ProductVersion <
'10.00.2850.0')
BEGIN
SET @CumulativeUpdate = 'CU16'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2582282';
END
ELSE IF (@ProductLevel = 'SP2') AND (@ProductVersion <
'10.00.4333.00')
BEGIN
SET @CumulativeUpdate = 'CU11'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2715951';
END
ELSE IF (@ProductLevel = 'SP3') AND (@ProductVersion <
'10.00.5861.00')
BEGIN
SET @CumulativeUpdate = 'CU17'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2958696';
END

SELECT @OtherProduct =
CASE
WHEN @ProductLevel IN ('RTM','SP1') THEN
CASE
WHEN @EditionID IN (1804890536,1872460670)
THEN @2008R2E+@2008R2Dat
WHEN @EditionID = -1534726760
THEN @2008R2E+@2008R2Dat+@2008R2Std
WHEN @EditionID = -2117995310
THEN @2008R2Dat+@2008R2Dev
WHEN @Edition LIKE 'Express%'
THEN @2008R2E+@2008R2Dat+@2008R2Std+@2008R2Wg+@2008R2Dev+@2008R2ExpAdv
END
WHEN @ProductLevel = 'SP2' THEN
CASE
WHEN @EditionID IN (1804890536,1872460670)
THEN @2008R2E+@2008R2Dat + @2012E+@2012BI
WHEN @EditionID = -1534726760
THEN @2008R2E+@2008R2Dat+@2008R2Std + @2012E+@2012BI+@2012Std
WHEN @EditionID = -2117995310
THEN @2008R2Dat+@2008R2Dev + @2012Dev
WHEN @Edition LIKE 'Express%'
THEN @2008R2E+@2008R2Dat+@2008R2Std+@2008R2Wg+@2008R2Dev+@2008R2ExpAdv
+ @2012E+@2012BI+@2012Std+@2012Web+@2012Exp
END
WHEN @ProductLevel IN ('SP3','SP4') THEN
CASE
WHEN @EditionID IN (1804890536,1872460670)

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THEN @2008R2E+@2008R2Dat + @2012E+@2012BI + @2014E+@2014BI +
@2016E+@2016BI      + @2017E+@2017BI
                WHEN @EditionID = -1534726760
THEN @2008R2E+@2008R2Dat+@2008R2Std + @2012E+@2012BI+@2012Std
+ @2014E+@2014BI+@2014Std + @2016E+@2016BI+@2016Std +
@2017E+@2017BI+@2017Std
                WHEN @EditionID = -2117995310
THEN @2008R2Dat+@2008R2Dev + @2012Dev + @2014Dev + @2016Dev + @2017Dev
                WHEN @Edition LIKE 'Express%'
THEN @2008R2E+@2008R2Dat+@2008R2Std+@2008R2Wg+@2008R2Dev+@2008R2ExpAdv
+ @2012E+@2012BI+@2012Std+@2012Web+@2012Exp
+ @2014E+@2014BI+@2014Std+@2014Web+@2014Exp
                END
            END
        END

IF (@ProductName = 'SQL Server 2008 R2')
BEGIN

    IF (@ProductLevel = 'RTM') AND (@ProductVersion < '10.50.1815.00')
    BEGIN
        SET @CumulativeUpdate = 'CU13'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2679366';
    END
    ELSE IF (@ProductLevel = 'SP1') AND (@ProductVersion <
'10.50.2881.00')
    BEGIN
        SET @CumulativeUpdate = 'CU14'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2868244';
    END
    ELSE IF (@ProductLevel = 'SP2') AND (@ProductVersion <
'10.50.4319.00')
    BEGIN
        SET @CumulativeUpdate = 'CU13'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2967540';
    END

    SELECT @OtherProduct =
        CASE
            WHEN @ProductLevel = 'RTM' THEN ' If you want to
upgrade to higher edition, please intall service pack.'
            WHEN @ProductLevel = 'SP1' THEN
                CASE
                    WHEN @EditionID IN (1804890536,1872460670)
THEN @2012E+@2012BI
                    WHEN @EditionID = -1534726760
THEN @2012E+@2012BI+@2012Std
                    WHEN @EditionID = -2117995310
THEN @2012Dev
                    WHEN @Edition LIKE 'Express%'

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THEN @2012E+@2012BI+@2012Std+@2012Web+@2012Exp
      END
      WHEN @ProductLevel IN ('SP2', 'SP3', 'SP4') THEN
      CASE
        WHEN @EditionID IN (1804890536, 1872460670)
THEN @2012E+@2012BI + @2014E+@2014BI + @2016E+@2016BI + @2017E+@2017BI
        WHEN @EditionID = -1534726760
THEN @2012E+@2012BI+@2012Std + @2014E+@2014BI+@2014Std +
@2016E+@2016BI+@2016Std + @2017E+@2017BI+@2017Std
        WHEN @EditionID = -2117995310
THEN @2012Dev + @2014Dev + @2016Dev +@2017Dev
        WHEN @Edition LIKE 'Express%'
THEN @2012E+@2012BI+@2012Std+@2012Web+@2012Exp
+ @2014E+@2014BI+@2014Std+@2014Web+@2014Exp
+ @2016E+@2016BI+@2016Std+@2016Web+@2016Exp
+ @2017E+@2017BI+@2017Std+@2017Web+@2017Exp
      END
    END
  END

IF (@ProductName = 'SQL Server 2012')
BEGIN

  --2012
  IF (@ProductLevel = 'RTM') AND (@ProductVersion < '11.0.2424.0')
  BEGIN
    SET @CumulativeUpdate = 'CU11'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/2908007';
  END
  ELSE IF (@ProductLevel = 'SP1') AND (@ProductVersion <
'11.0.3487.0')
  BEGIN
    SET @CumulativeUpdate = 'CU16'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/3052476';
  END
  ELSE IF (@ProductLevel = 'SP2') AND (@ProductVersion <
'11.0.5678.0')
  BEGIN
    SET @CumulativeUpdate = 'CU16'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/3205054';
  END
  ELSE IF (@ProductLevel = 'SP3') AND (@ProductVersion <
'11.0.6607.3')
  BEGIN
    SET @CumulativeUpdate = 'CU10'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4025925';
  END
  ELSE IF (@ProductLevel = 'SP4') AND (@ProductVersion <
'11.0.7001.0')
  BEGIN

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        SET @CumulativeUpdate = 'RTW/PCU4'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4018073';
    END
    SELECT @OtherProduct =
        CASE
            WHEN @ProductLevel = 'RTM' THEN ' If you want to
upgrade to higher edition, please install service pack.'
            WHEN @ProductLevel IN('SP1','SP2','SP3','SP4') THEN
                CASE
                    WHEN @EditionID IN (1804890536,1872460670)
THEN @2014E+@2014BI + @2016E+@2016BI + @2017E+@2017BI
                    WHEN @EditionID = -1534726760
THEN @2014E+@2014BI+@2014Std + @2016E+@2016BI+@2016Std +
@2017E+@2017BI+@2017Std
                    WHEN @EditionID = -2117995310
THEN @2014Dev + @2016E+@2016BI+@2016Std+@2016Web+@2016Dev +
@2017E+@2017BI+@2017Std+@2017Web+@2017Dev
                    WHEN @EditionID = -610778273
THEN @2016E+@2016BI+@2016Std+@2016Web+@2016Dev+@2016Eval +
@2017E+@2017BI+@2017Std+@2017Web+@2017Dev+@2017Eval
                    WHEN @Edition LIKE 'Express%'
THEN @2014E+@2014BI+@2014Std+@2014Web+@2014Exp
+ @2016E+@2016BI+@2016Std+@2016Web+@2016Exp+@2016Dev
+ @2017E+@2017BI+@2017Std+@2017Web+@2017Exp+@2017Dev
                END
            END
    END

    IF (@ProductName = 'SQL Server 2014')
    BEGIN

        --2014
        IF (@ProductLevel = 'RTM') AND (@ProductVersion < '12.0.2569.0')
        BEGIN
            SET @CumulativeUpdate = 'CU14'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/3158271';
        END
        ELSE IF (@ProductLevel = 'SP1') AND (@ProductVersion <
'12.0.4520.0')
        BEGIN
            SET @CumulativeUpdate = 'CU13'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4019099';
        END
        ELSE IF (@ProductLevel = 'SP2') AND (@ProductVersion <
'12.0.5571.0')
        BEGIN
            SET @CumulativeUpdate = 'CU10'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4052725';
        END

        SELECT @OtherProduct =

```

```

CASE
    WHEN @ProductLevel IN ('RTM','SP1','SP2') THEN
        CASE
            WHEN @EditionID IN (1804890536,1872460670)
THEN @2016E+@2016BI + @2017E+@2017BI
            WHEN @EditionID = -1534726760
THEN @2016E+@2016BI+@2016Std + @2017E+@2017BI+@2017Std
            WHEN @EditionID = -2117995310
THEN @2016E+@2016BI+@2016Std+@2016Web+@2016Dev +
@2017E+@2017BI+@2017Std+@2017Web+@2017Dev
            WHEN @EditionID = -610778273
THEN @2016E+@2016BI+@2016Std+@2016Web+@2016Dev+@2016Eval +
@2017E+@2017BI+@2017Std+@2017Web+@2017Dev+@2017Eval
            WHEN @Edition LIKE 'Express%'
THEN @2016E+@2016BI+@2016Std+@2016Web+@2016Exp+@2016Dev +
@2017E+@2017BI+@2017Std+@2017Web+@2017Exp+@2017Dev
        END
    END

END

IF (@ProductName = 'SQL Server 2016')
BEGIN

    --2016
    IF (@ProductLevel = 'RTM') AND (@ProductVersion < '13.0.2216.0')
    BEGIN
        SET @CumulativeUpdate = 'CU9'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4037357';
    END
    ELSE IF (@ProductLevel = 'SP1') AND (@ProductVersion <
'13.0.4466.4')
    BEGIN
        SET @CumulativeUpdate = 'CU7'; SET @CumulativeUpdateKB =
'https://support.microsoft.com/en-us/kb/4057119';
    END
    SELECT @OtherProduct =
        CASE
            WHEN @ProductLevel IN ('RTM','SP1') THEN
                CASE
                    WHEN @EditionID IN (1804890536,1872460670)
THEN @2017E+@2017BI
                    WHEN @EditionID = -1534726760
THEN @2017E+@2017BI+@2017Std
                    WHEN @EditionID = -2117995310
THEN @2017E+@2017BI+@2017Std+@2017Web+@2017Dev
                    WHEN @EditionID = -610778273
THEN @2017E+@2017BI+@2017Std+@2017Web+@2017Dev+@2017Eval
                    WHEN @Edition LIKE 'Express%'
THEN @2017E+@2017BI+@2017Std+@2017Web+@2017Exp+@2017Dev
                END
        END
END

```

END

```

-----
--//Begin GDR or QFE //////////////////////////////////////
-----
DECLARE @SecurityUpdate      NVARCHAR(100)
DECLARE @GDR                 NVARCHAR(2000) = ''
DECLARE @QFE                 NVARCHAR(2000) = ''
DECLARE @GDRorQFE            TINYINT        = 0
DECLARE @Build               NVARCHAR(20) =
SUBSTRING(@ProductVersion,1,9)

IF (@ProductName = 'SQL Server 2014')
BEGIN

    IF (@Build IN ('12.0.2000','12.0.4100'))
        SET @GDRorQFE = 1
    ELSE IF (@Build IN ('12.0.2381','12.0.2548'))
        SET @GDRorQFE = 2
    ELSE IF (@Build IN ('12.0.2254','12.0.2269','12.0.4213'))
        SET @GDRorQFE = 3
    ELSE
        SET @GDRorQFE = 4

    SET @QFE = @QFE
        --+ CHAR(13) + '12.0.2381 (SQL Server 2014 RTM QFE)
https://support.microsoft.com/en-us/kb/2977316'
        + CHAR(13) + '12.0.2548 (SQL Server 2014 RTM QFE)
http://support.microsoft.com/en-us/kb/3045323'

    SET @GDR = @GDR
        + CHAR(13) + '12.0.2254 (SQL Server 2014 RTM GDR)
http://support.microsoft.com/kb/2977315/en-us'
        + CHAR(13) + '12.0.2269 (SQL Server 2014 RTM GDR)
http://support.microsoft.com/en-us/kb/3045324'
        + CHAR(13) + '12.0.4213 (SQL Server 2014 SP1 GDR)
https://support.microsoft.com/en-us/kb/3070446'

END

IF (@ProductName = 'SQL Server 2012')
BEGIN
    --1:RTM SP
    --2:QFE
    --3:GDR
    --4:CU
    IF (@Build IN ('11.0.2100','11.0.3000','11.0.5058'))

```

```
        SET @GDRorQFE = 1
    ELSE IF (@Build IN
('11.0.2376','11.0.3460','11.0.3513','11.0.5613'))
        SET @GDRorQFE = 2
    ELSE IF (@Build IN
('11.0.2218','11.0.3153','11.0.3156','11.0.5343'))
        SET @GDRorQFE = 3
    ELSE
        SET @GDRorQFE = 4

    SET @QFE = @QFE
        + CHAR(13) + '11.0.2376 (SQL Server 2012 RTM QFE)
http://support.microsoft.com/en-us/kb/2716441'
        --+ CHAR(13) + '11.0.3460 (SQL Server 2012 SP1 QFE)
http://support.microsoft.com/kb/2977325/en-us'
        + CHAR(13) + '11.0.3513 (SQL Server 2012 SP1 QFE)
https://support.microsoft.com/en-us/kb/3045317'
        + CHAR(13) + '11.0.5613 (SQL Server 2012 SP2 QFE)
https://support.microsoft.com/en-us/kb/3045319'

    SET @GDR = @GDR
        + CHAR(13) + '11.0.2218 (SQL Server 2012 RTM GDR)
https://support.microsoft.com/en-us/kb/2716442'
        + CHAR(13) + '11.0.3153 (SQL Server 2012 SP1 GDR)
http://support.microsoft.com/kb/2977326/en-us'
        + CHAR(13) + '11.0.3156 (SQL Server 2012 SP1 GDR)
https://support.microsoft.com/en-us/kb/3045318'
        + CHAR(13) + '11.0.5343 (SQL Server 2012 SP2 GDR)
https://support.microsoft.com/en-us/kb/3045321'

END

IF (@ProductName = 'SQL Server 2008 R2')
BEGIN

    IF (@Build IN
('10.50.1600','10.50.2500','10.50.4000','10.50.6000'))
        SET @GDRorQFE = 1
    ELSE IF (@Build IN
('10.50.1790','10.50.2861','10.50.4321','10.50.4339','10.50.6220','10.5
0.6529'))
        SET @GDRorQFE = 2
    ELSE IF (@Build IN
('10.50.1617','10.50.2550','10.50.4033','10.50.4042'))
        SET @GDRorQFE = 3
    ELSE
        SET @GDRorQFE = 4

    SET @QFE = @QFE
        + CHAR(13) + '10.50.1790 (SQL Server 2008 R2 RTM QFE)
```

```
http://support.microsoft.com/kb/2494086'
+ CHAR(13) + '10.50.2861 (SQL Server 2008 R2 SP1 QFE)
http://support.microsoft.com/kb/2716439'
+ CHAR(13) + '10.50.4339 (SQL Server 2008 R2 SP2 QFE)
http://support.microsoft.com/kb/3045312/en-us'
+ CHAR(13) + '10.50.6529 (SQL Server 2008 R2 SP3 QFE)
http://support.microsoft.com/kb/3045314/en-us'

SET @GDR = @GDR
+ CHAR(13) + '10.50.1617 (SQL Server 2008 R2 RTM GDR)
http://support.microsoft.com/kb/2494088'
+ CHAR(13) + '10.50.2550 (SQL Server 2008 R2 SP1 GDR)
http://technet.microsoft.com/en-us/security/bulletin/ms12-070'
+ CHAR(13) + '10.50.4033 (SQL Server 2008 R2 SP2 GDR)
http://support.microsoft.com/kb/2977320/en-us'
+ CHAR(13) + '10.50.4042 (SQL Server 2008 R2 SP2 GDR)
http://support.microsoft.com/kb/3045313/en-us'
END

IF (@ProductName = 'SQL Server 2008')
BEGIN

    IF (@Build IN
('10.00.1600','10.00.2531','10.00.4000','10.00.5500','10.00.6000'))
        SET @GDRorQFE = 1
    ELSE IF (@Build IN
('10.00.2841','10.00.4311','10.00.4371','10.00.5826','10.00.5869','10.0
0.5890','10.00.6535'))
        SET @GDRorQFE = 2
    ELSE IF (@Build IN
('10.00.2573','10.00.4064','10.00.4067','10.00.5512','10.00.5520','10.0
0.5538','10.00.6241'))
        SET @GDRorQFE = 3
    ELSE
        SET @GDRorQFE = 4

    SET @QFE = @QFE
+ CHAR(13) + '10.00.2841 (SQL Server 2008 SP1 QFE)
https://support.microsoft.com/en-us/kb/2494100'
+ CHAR(13) + '10.00.4371 (SQL Server 2008 SP2 QFE)
http://support.microsoft.com/en-us/kb/2716433'
+ CHAR(13) + '10.00.5890 (SQL Server 2008 SP3 QFE)
https://support.microsoft.com/en-us/kb/3045303'
+ CHAR(13) + '10.00.6535 (SQL Server 2008 SP4 QFE)
http://support.microsoft.com/kb/3045308/en-us'

    SET @GDR = @GDR
+ CHAR(13) + '10.00.2573 (SQL Server 2008 SP1 GDR)
http://support.microsoft.com/kb/2494096'
+ CHAR(13) + '10.00.4064 (SQL Server 2008 SP2 GDR)
```

```

http://support.microsoft.com/kb/2494089'
    + CHAR(13) + '10.00.4067 (SQL Server 2008 SP2 GDR)
http://support.microsoft.com/en-us/kb/2716434'
    + CHAR(13) + '10.00.5512 (SQL Server 2008 SP3 GDR)
http://support.microsoft.com/en-us/kb/2716436'
    + CHAR(13) + '10.00.5520 (SQL Server 2008 SP3 GDR)
http://support.microsoft.com/kb/2977321/en-us'
    + CHAR(13) + '10.00.5538 (SQL Server 2008 SP3 GDR)
https://support.microsoft.com/en-us/kb/3045305'
    + CHAR(13) + '10.00.6241 (SQL Server 2008 SP4 GDR)
https://support.microsoft.com/en-us/kb/3045311'
END

IF @GDRorQFE = 2
    SET @SecurityUpdate = '+ Security update(QFE branch)'
ELSE IF @GDRorQFE = 3
    SET @SecurityUpdate = '+ Security update(GDR)'
ELSE
    SET @SecurityUpdate = ''

-----
--//GDR or QFE end //////////////////////////////////////
-----

--begin output results
--//Your current Microsoft SQL Server information:
PRINT REPLICATE('-',105)
PRINT '--//Your current Microsoft SQL Server information:'
PRINT REPLICATE('-',105)
PRINT 'Product Version:      ' + @ProductVersion
PRINT 'Product Name:         ' + @ProductName
PRINT 'Product Level:         ' + @ProductLevel + ' ' +
@SecurityUpdate
PRINT 'Product Edition:       ' + @Edition

IF (@ProductName = 'SQL Server 2014')
    AND ((@ProductLevel = 'RTM' AND SUBSTRING(@UpdateLevel,3,4) >= 10)
        OR (@ProductLevel = 'SP1' AND SUBSTRING(@UpdateLevel,3,4) >=
3)
        OR (@ProductLevel > 'SP1'))
BEGIN
    PRINT 'Product Update Level:      ' + @UpdateLevel
    PRINT 'Product Update Reference: ' + @UpdateRefOutput
END
ELSE
BEGIN
    IF (@ProductName = 'SQL Server 2014' AND @ProductLevel = 'RTM' AND
SUBSTRING(@UpdateLevel,3,4) < 14)
    BEGIN
        PRINT REPLICATE('-',105)
        PRINT 'Note, if you want to know information about CU, you need

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to intall'
        + CHAR(13) + 'SQL Server 2014 RTM Cumulative Update 14.
CU14, <https://support.microsoft.com/en-us/kb/3158271>'
        + CHAR(13) + REPLICATE(' ',50) + '- see KB3158271 to get
the Cumulative Update 14'
    END

    IF (@ProductName = 'SQL Server 2014' AND @ProductLevel = 'SP1' AND
SUBSTRING(@UpdateLevel,3,4) < 13)
    BEGIN
        PRINT REPLICATE('-',105)
        PRINT 'Note, if you want to know information about CU, you need
to intall'
        + CHAR(13) + 'SQL Server 2014 SP1 Cumulative Update 13.
CU13, <https://support.microsoft.com/en-us/kb/4019099>'
        + CHAR(13) + REPLICATE(' ',50) + '- see KB4019099 to get
the Cumulative Update 13'
    END

    IF (@ProductName <> 'SQL Server 2014')
    BEGIN
        PRINT REPLICATE('-',105)
        PRINT 'Note, if you want to know information about CU, please
read this KB below.'
        + CHAR(13) + 'KB321185,' + '
<https://support.microsoft.com/en-us/kb/321185>'
    END

END

PRINT REPLICATE('-',105)

--//lifecycle Support
IF (@ProductName = 'SQL server 2008' OR @ProductName = 'SQL server 2008
R2')
BEGIN
    PRINT @ExtendedSupport
END

IF (@ProductName = 'SQL server 2012')
BEGIN
    IF @ProductLevel = 'SP2' OR @ProductLevel = 'SP3' OR @ProductLevel
= 'SP4'
        PRINT @MainSupport
    ELSE
        PRINT @MainSupportNonUpdate
END

IF (@ProductName = 'SQL server 2014' OR @ProductName = 'SQL server

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2016' OR @ProductName = 'SQL server 2017')
BEGIN
    PRINT @MainSupport
END

PRINT REPLICATE('-',105)
PRINT 'Full information:' + CHAR(13) + @@VERSION

--//Recommended Updates:

PRINT REPLICATE('-',105)
PRINT '--//Recommended updates: '--Upgrade to ' + @TheLastVersion
PRINT '--### RTM -> QFE or GDR'
PRINT '--### SP -> QFE or GDR'
PRINT '--### QFE -> QFE'
PRINT '--### GDR -> GDR or QFE'
PRINT REPLICATE('-',105)
PRINT @SPInfo

IF @CUInfo IS NOT NULL
PRINT @CUInfo
PRINT ''

PRINT REPLICATE('-',105)
PRINT '##### QFE branch updates'
PRINT REPLICATE('-',105)
PRINT SUBSTRING(@QFE,2,2000)

IF (@GDRorQFE IN (1,3))
BEGIN
PRINT REPLICATE('-',105)
PRINT '##### GDR branch updates'
PRINT REPLICATE('-',105)
PRINT SUBSTRING(@GDR,2,2000)
END

IF @CumulativeUpdate IS NOT NULL AND (@ProductName <> 'SQL Server
2017')
BEGIN
    PRINT REPLICATE('-',105)
    PRINT 'Note, if you don''t want to upgrade to latest service pack
right now, we recommend you install the latest'
        + CHAR(13) + 'Cumulative Update ' + @CumulativeUpdate + ' of
' + @ProductName + ' ' + @ProductLevel + '.'
        + CHAR(13) + 'Install the latest Cumulative Update (CU) of '
+ @ProductLevel + ': ' + @CumulativeUpdate + ', <' + @CumulativeUpdateKB
+ '>'
END
```

```
--//You can upgrade to any of the following product(s):
PRINT CHAR(13)
PRINT REPLICATE('-',105)
PRINT '--//You can upgrade to any of the following product(s):'
PRINT REPLICATE('-',105)
PRINT SUBSTRING(@OtherProduct,2,800)
PRINT CHAR(13)
IF (@ProductName = 'SQL server 2017')
    PRINT 'For additional information about supported version and
        edition upgrades refer to:'
        + CHAR(13)
        +'https://docs.microsoft.com/en-us/sql/database-engine/install-windows/
        supported-version-and-edition-upgrades-2017'
ELSE IF(@ProductName = 'SQL server 2016')
    PRINT 'For additional information about supported version and
        edition upgrades refer to:'
        + CHAR(13)
        +'https://docs.microsoft.com/en-us/sql/database-engine/install-windows/
        supported-version-and-edition-upgrades'
ELSE
    PRINT 'For additional information about supported version and
        edition upgrades refer to:'
        + CHAR(13)
        +'https://technet.microsoft.com/en-us/library/ms143393(v=sql.120).aspx'
GO
```

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