

MS SQL 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>

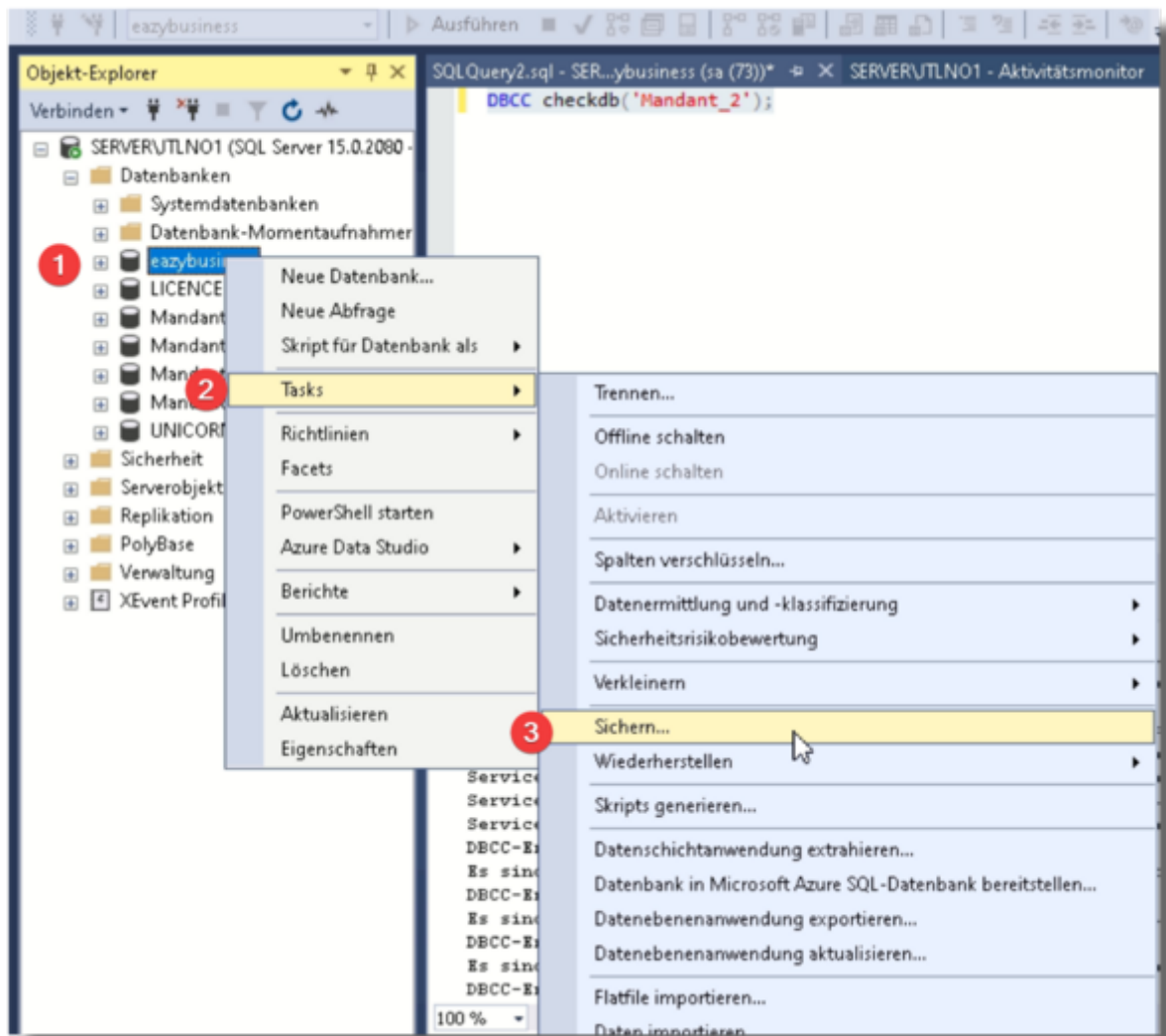
Kommandos

DBCC checkdb('Mandant_2');	prüft die Datenbank
----------------------------	---------------------

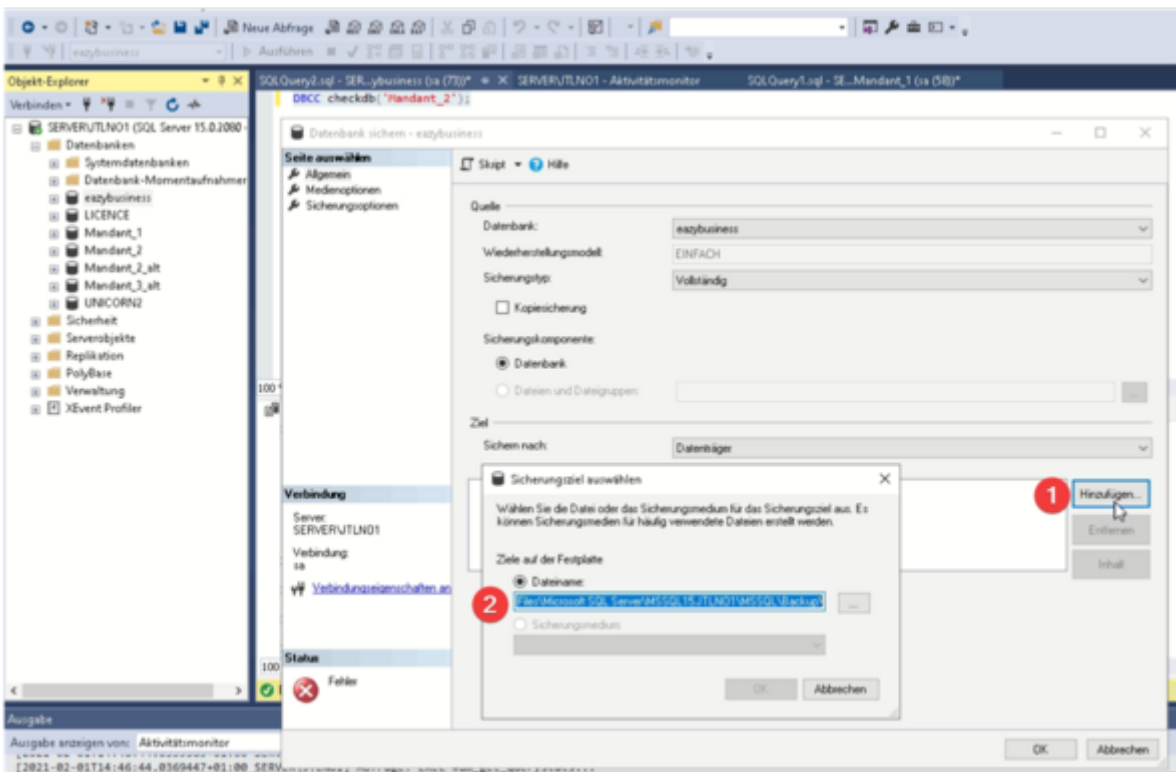
SSMS SQL Management Studio

Datenbank sichern

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

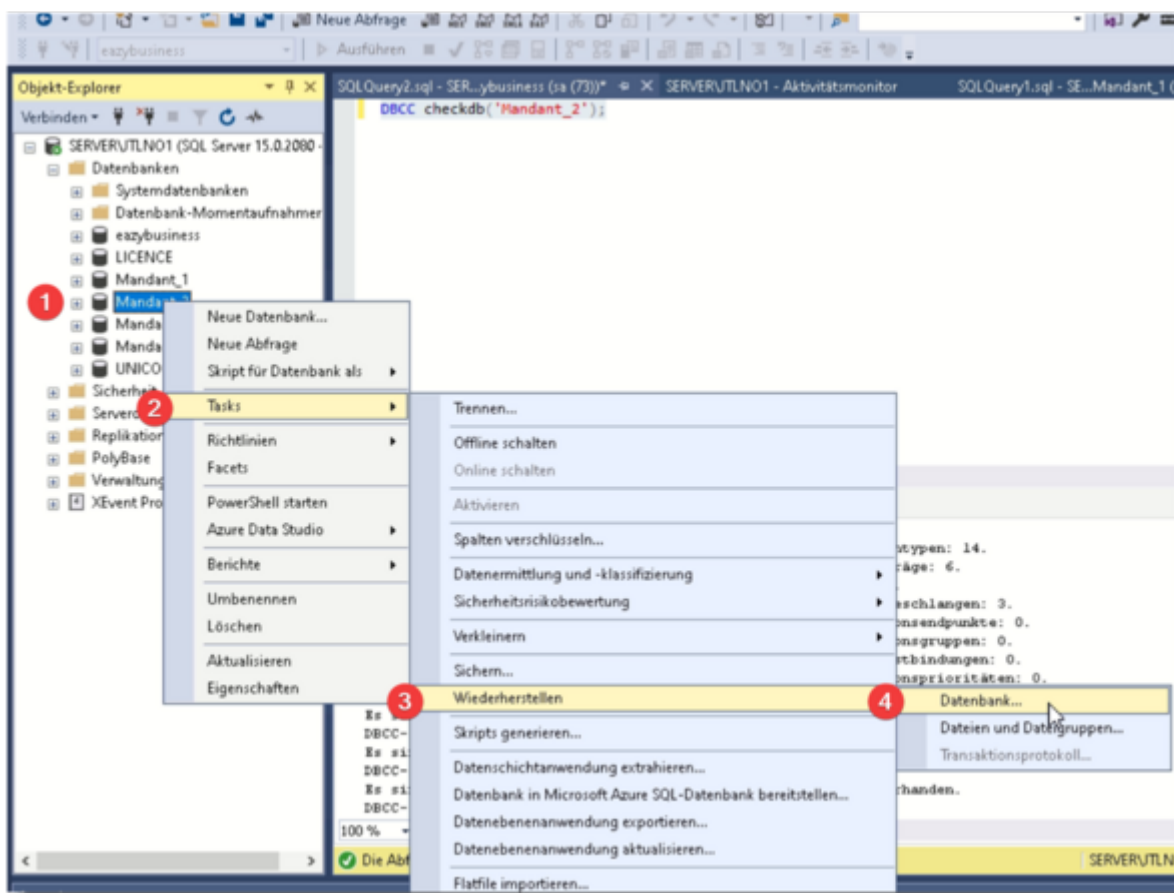


Nicht vergessen das Sicherungsziel anzugeben (Dateiname)

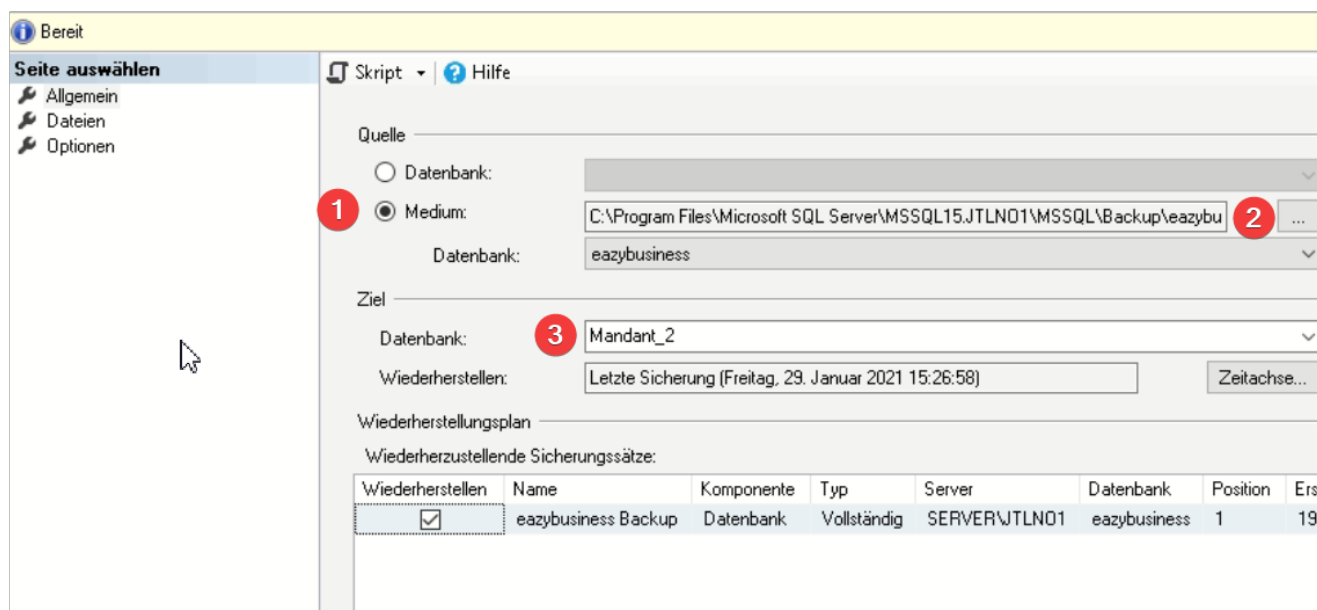


Datenbank wiederherstellen

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

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  
-- the sample scripts and documentation remains with you. In no event  
shall  
-- Microsoft, its authors, or anyone else involved in the creation,  
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'
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=FilterNO, 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=FilterNO, 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=FilterNO, 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'))

```

```

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,
@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 =
'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
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)
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 install 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%'
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
        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 intall 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

-----
--//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
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
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'
PRINT + CHAR(13) + 'Cumulative Update ' + @CumulativeUpdate + ' of '
PRINT ' + @ProductName + ' ' + @ProductLevel + '.'
PRINT + CHAR(13) + 'Install the latest Cumulative Update (CU) of '
PRINT + @ProductLevel + ': ' + @CumulativeUpdate + ', <' + @CumulativeUpdateKB
PRINT + '>'
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:'
PRINT + CHAR(13)
PRINT +'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:'
PRINT + CHAR(13)
PRINT +'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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