

How to Dump Data to a SQL “Insert Into” Script

Data



SQL Process



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Insert Into Script

```
1 CREATE TABLE #CustomerTable (  
2   Cust_ID  INTEGER  NOT NULL  
3   , CustName VARCHAR(200) NOT NULL  
4 )  
5  
6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')  
7 GO  
8 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (2, 'Beta Company')  
9 GO  
10 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (3, 'Cetera Company')  
11 GO  
12 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (4, 'Theta Company')  
13 GO  
14 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (5, 'Zeta Company')  
15 GO  
16 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (6, 'Phi Py Po Pnum')  
17 GO  
18 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (7, 'AbraCadabra Enterprises')  
19 GO  
20 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (8, 'Metropolitan Grill')  
21 GO  
22 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (33, 'Jeeva's Chowderhouse')  
23 GO  
24 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (34, 'McDonalds')  
25 GO  
26 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (35, 'Burger King')  
27 GO  
28 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (36, 'Wendy's')  
29
```



How to Dump Data to a SQL “Insert Into” Script

Quick Trainer Series



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How to Dump Data to a SQL “Insert Into” Script

- What is the Output?
- What is the Input?
- How to Create Script from “Generate Scripts”
- How to Create Script from “A Query”
- How to Finalize & Use

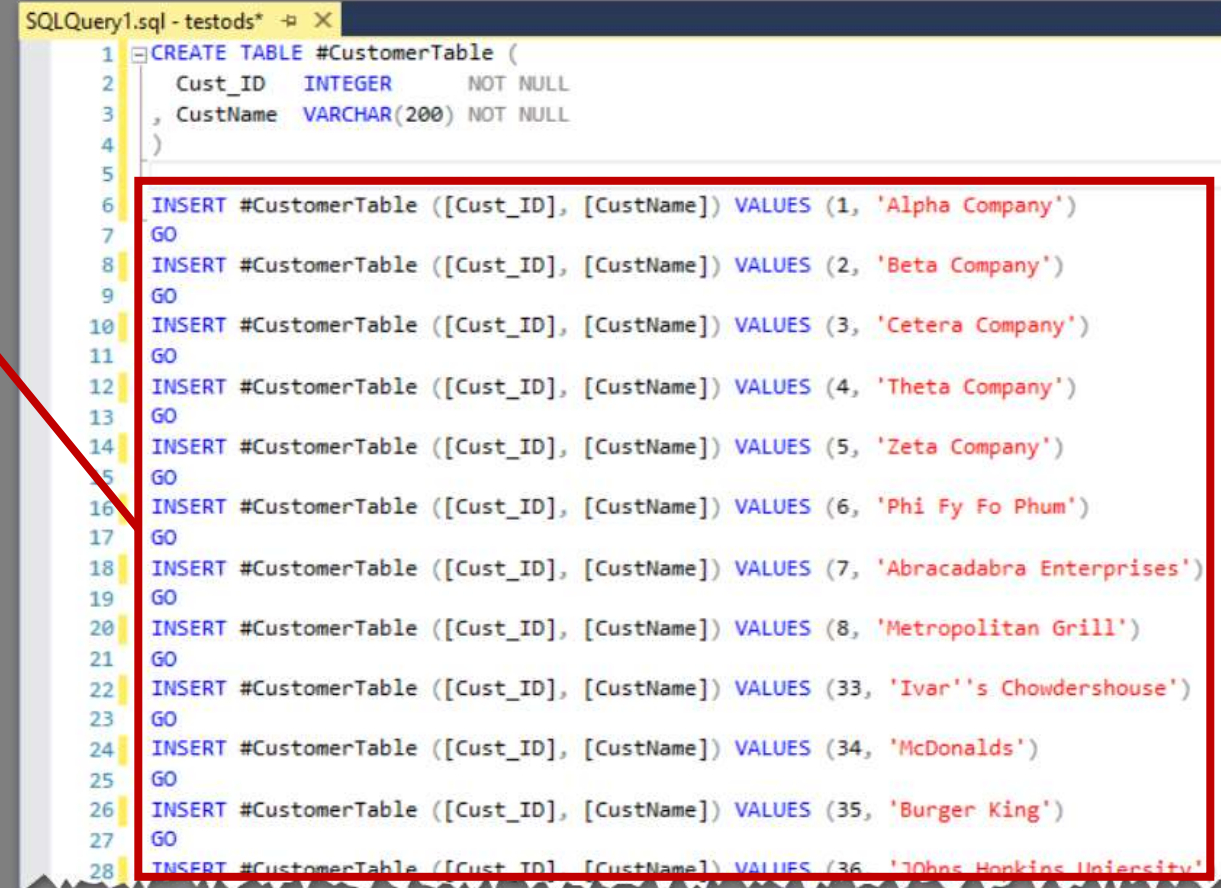


What is the Output?

1. The Output is an “INSERT INTO” SQL script

Notes:

- Can be modified to run against different databases or tables
- Could be modified to generate test data
- “INTO” is optional ... can just be “INSERT” as shown here.
ANSI requires INTO, MSSQL does not.



```
SQLQuery1.sql - testods*  -  X
1 CREATE TABLE #CustomerTable (
2     Cust_ID INTEGER NOT NULL
3     , CustName VARCHAR(200) NOT NULL
4 )
5
6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
7 GO
8 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (2, 'Beta Company')
9 GO
10 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (3, 'Cetera Company')
11 GO
12 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (4, 'Theta Company')
13 GO
14 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (5, 'Zeta Company')
15 GO
16 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (6, 'Phi Fy Fo Phum')
17 GO
18 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (7, 'Abracadabra Enterprises')
19 GO
20 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (8, 'Metropolitan Grill')
21 GO
22 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (33, 'Ivar''s Chowdershouse')
23 GO
24 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (34, 'McDonalds')
25 GO
26 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (35, 'Burger King')
27 GO
28 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (36, 'Johns Hopkins University')
```

How to Dump Data to a SQL “Insert Into” Script

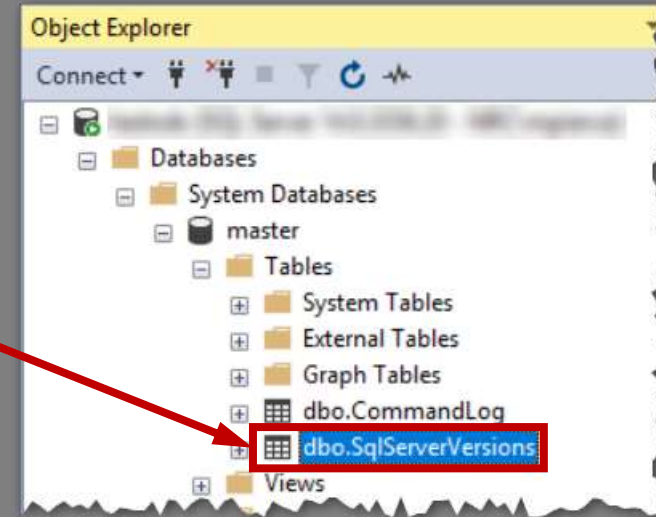
- What is the Output?
- **What is the Input?**
- How to Create Script from “Generate Scripts”
- How to Create Script from “A Query”
- How to Finalize & Use



What is the Input?

Two Input Styles:

1. Complete Tables



What is the Input?

Two Input Styles:

1. Complete Tables
2. SQL Queries

```
1 SELECT CONCAT(  
2     'INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber'  
3     ', Branch, Url, ReleaseDate, MainstreamSupportEndDate, ExtendedSupportEndDate'  
4     ', MajorVersionName, MinorVersionName) '  
5     , CHAR(10)  
6     , 'VALUES ('  
7     , CAST(MajorVersionNumber AS VARCHAR(10)), ', '  
8     , CAST(MinorVersionNumber AS VARCHAR(10)), ', '  
9     , Branch, ', ', '  
10    , Url, ', ', '  
11    , ReleaseDate, ', ', '  
12    , MainstreamSupportEndDate, ', ', '  
13    , ExtendedSupportEndDate, ', ', '  
14    , MajorVersionName, ', ', '  
15    , MinorVersionName, ', '  
16    , ')'  
17    , CHAR(10)  
18    , 'GO'  
19    , CHAR(10)  
20    ) AS RowData  
21 FROM SqlServerVersions
```

How to Dump Data to a SQL “Insert Into” Script

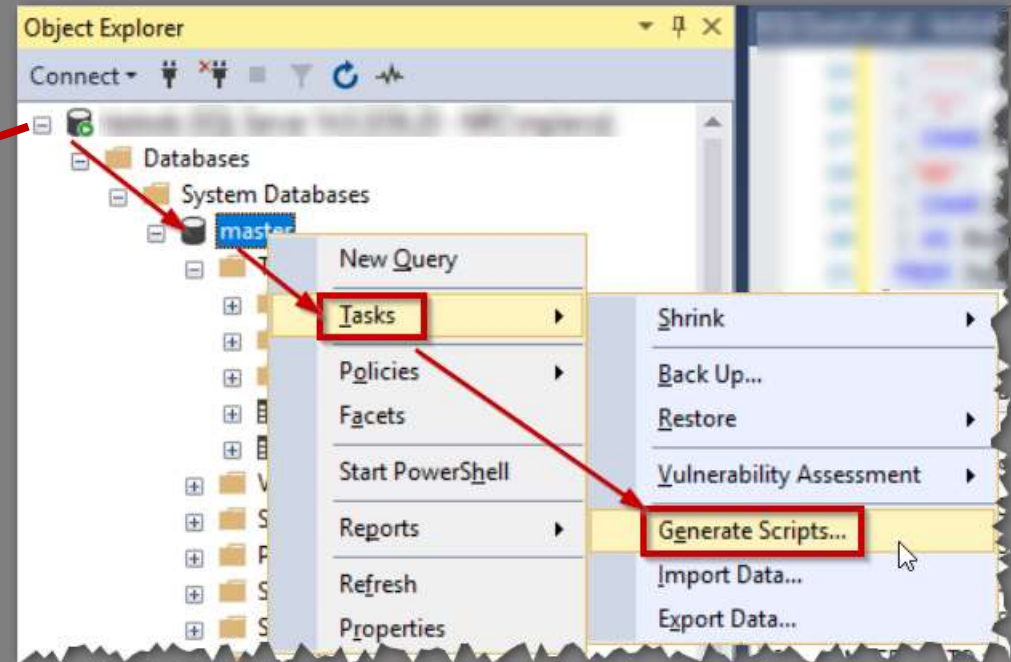
- What is the Output?
- What is the Input?
- **How to Create Script from “Generate Scripts”**
- How to Create Script from “A Query”
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How to Create Script from “Generate Scripts”

There are several steps:

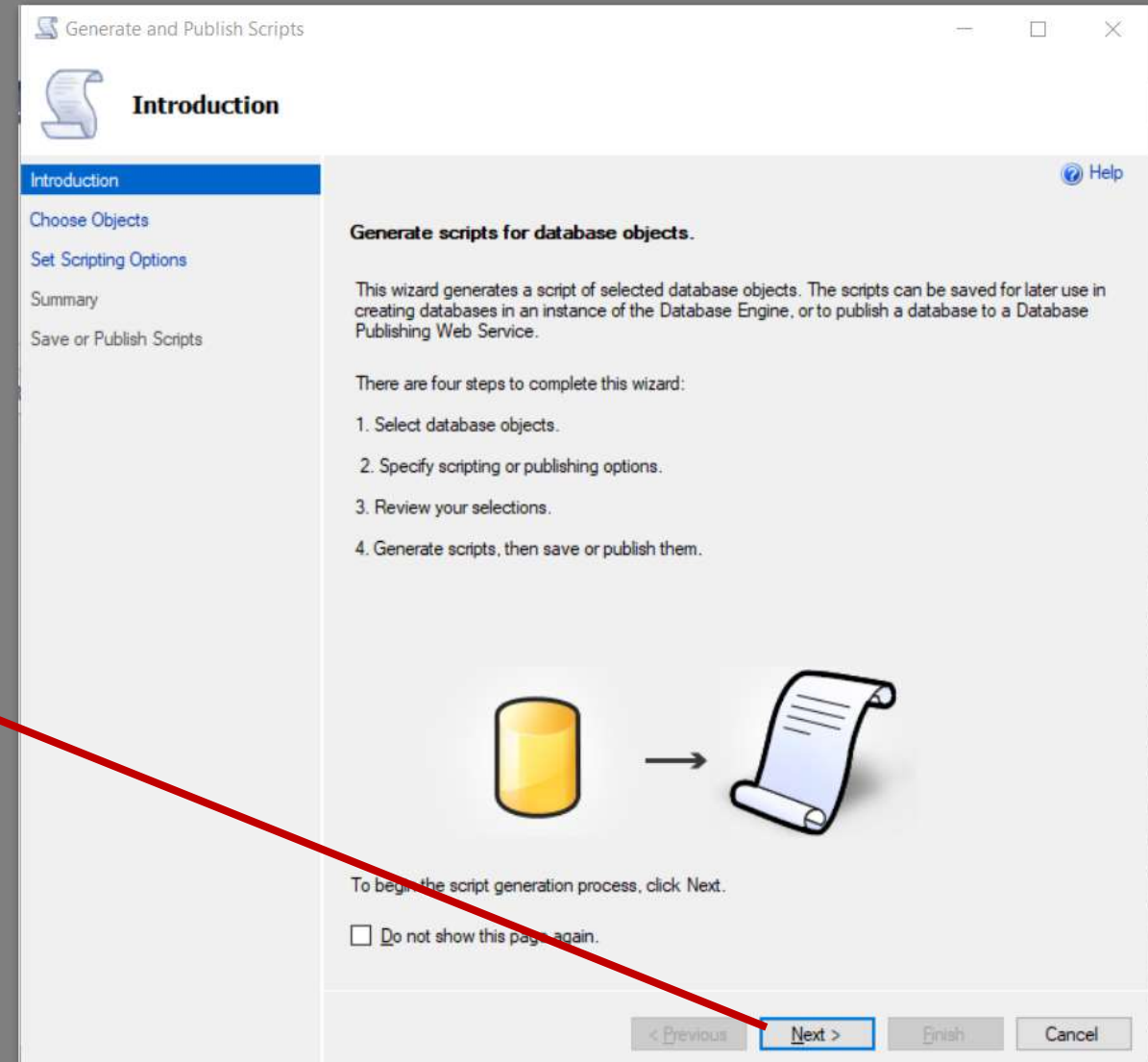
1. Open Script Dialog
 - a. Right-click database
 - b. Select Tasks
 - c. Select Generate Scripts



How to Create Script from “Generate Scripts”

There are several steps:

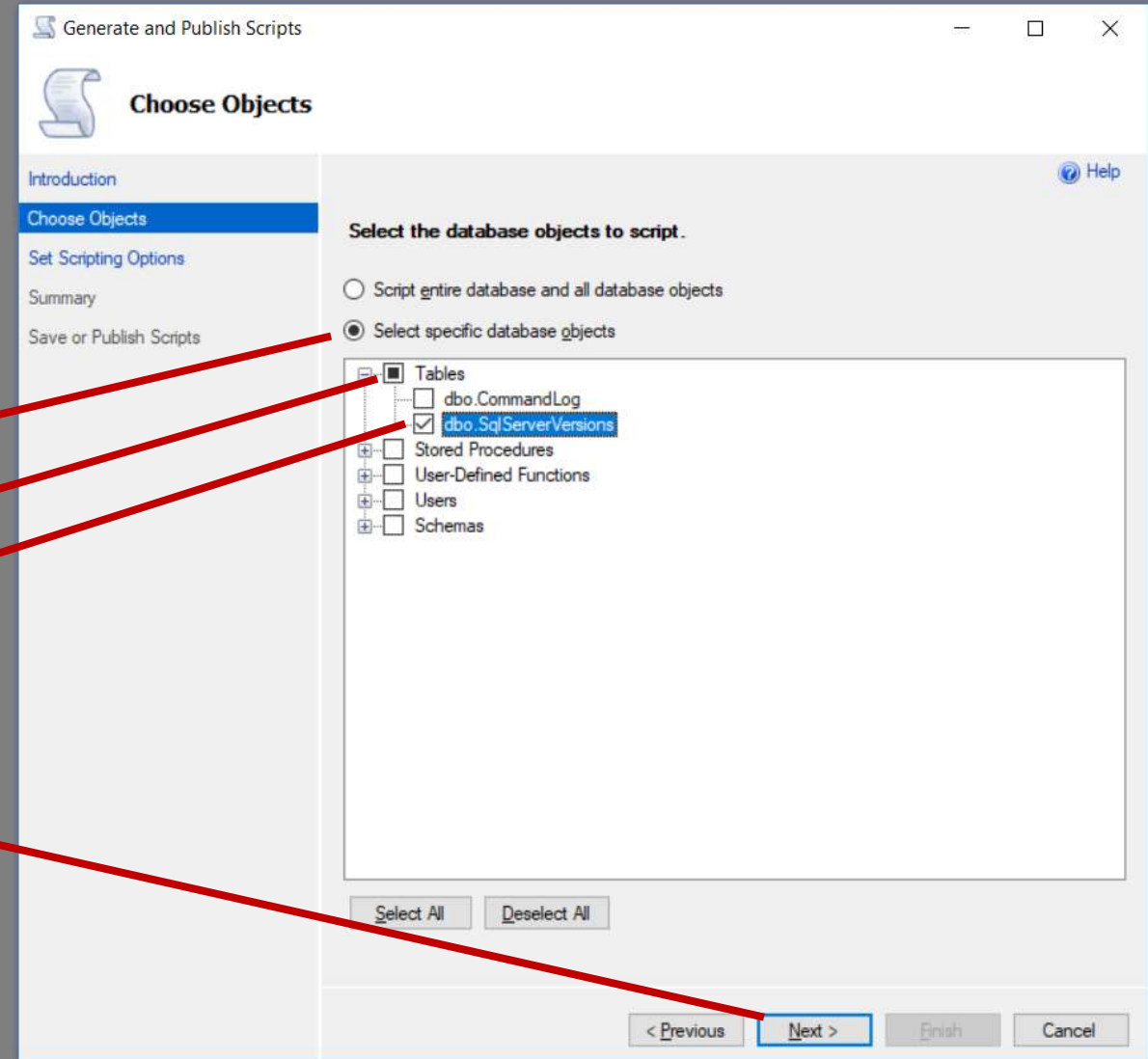
1. Open Script Dialog
2. Skip Introduction Step
 - a. Popup arrives
 - b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

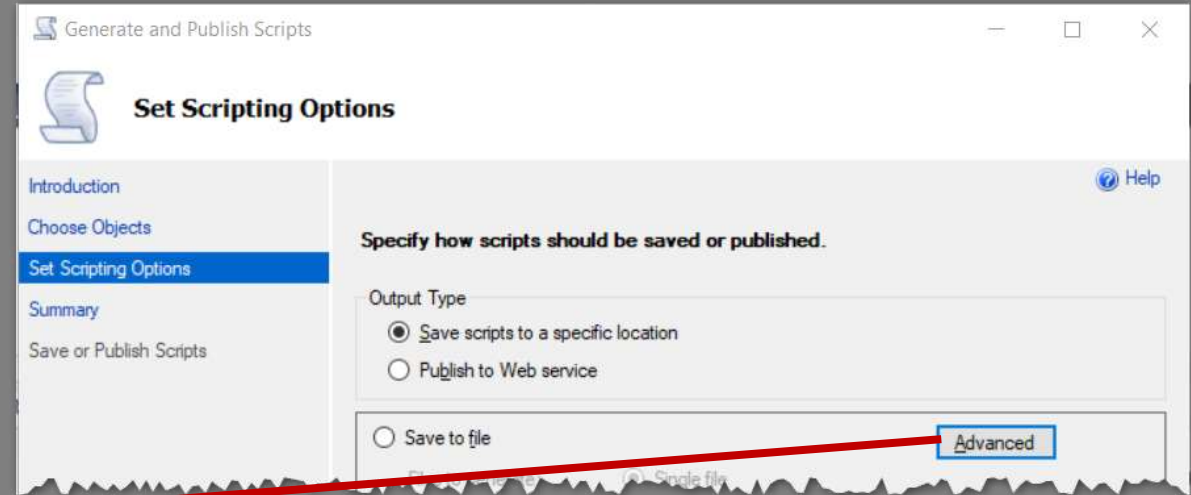
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
 - a. Tick “Select specific database objects”
 - b. Tick “Table”
 - c. Tick the specific table to script out
 - d. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

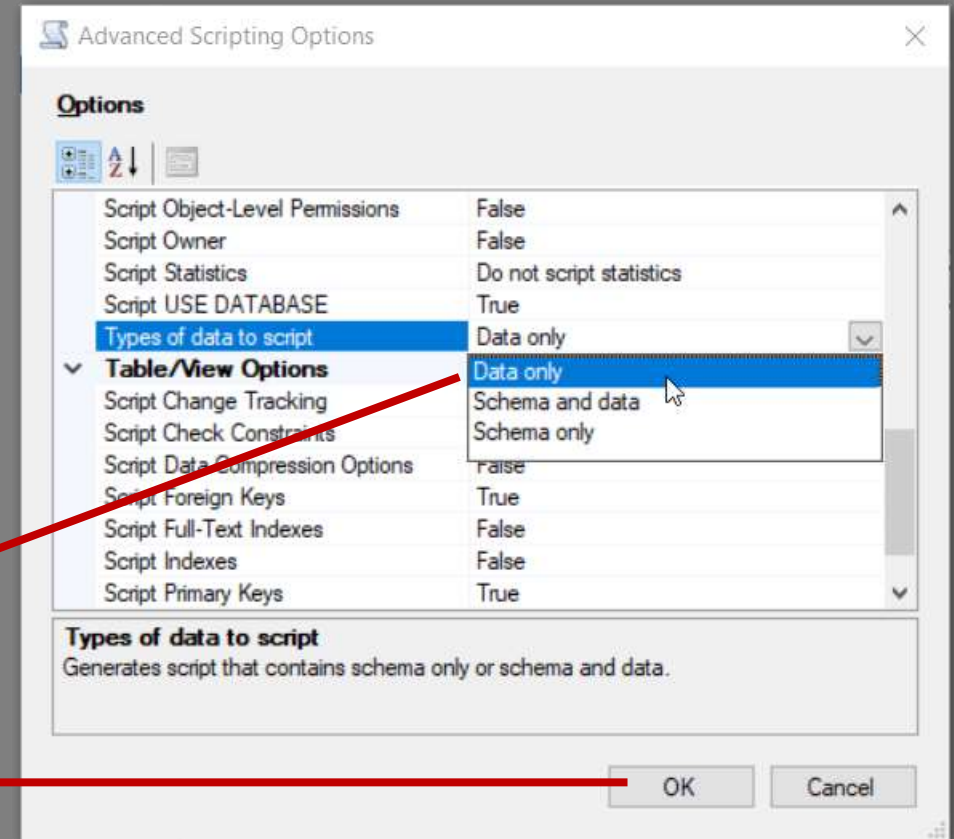
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
 - a. Click “Advanced”



How to Create Script from “Generate Scripts”

There are several steps:

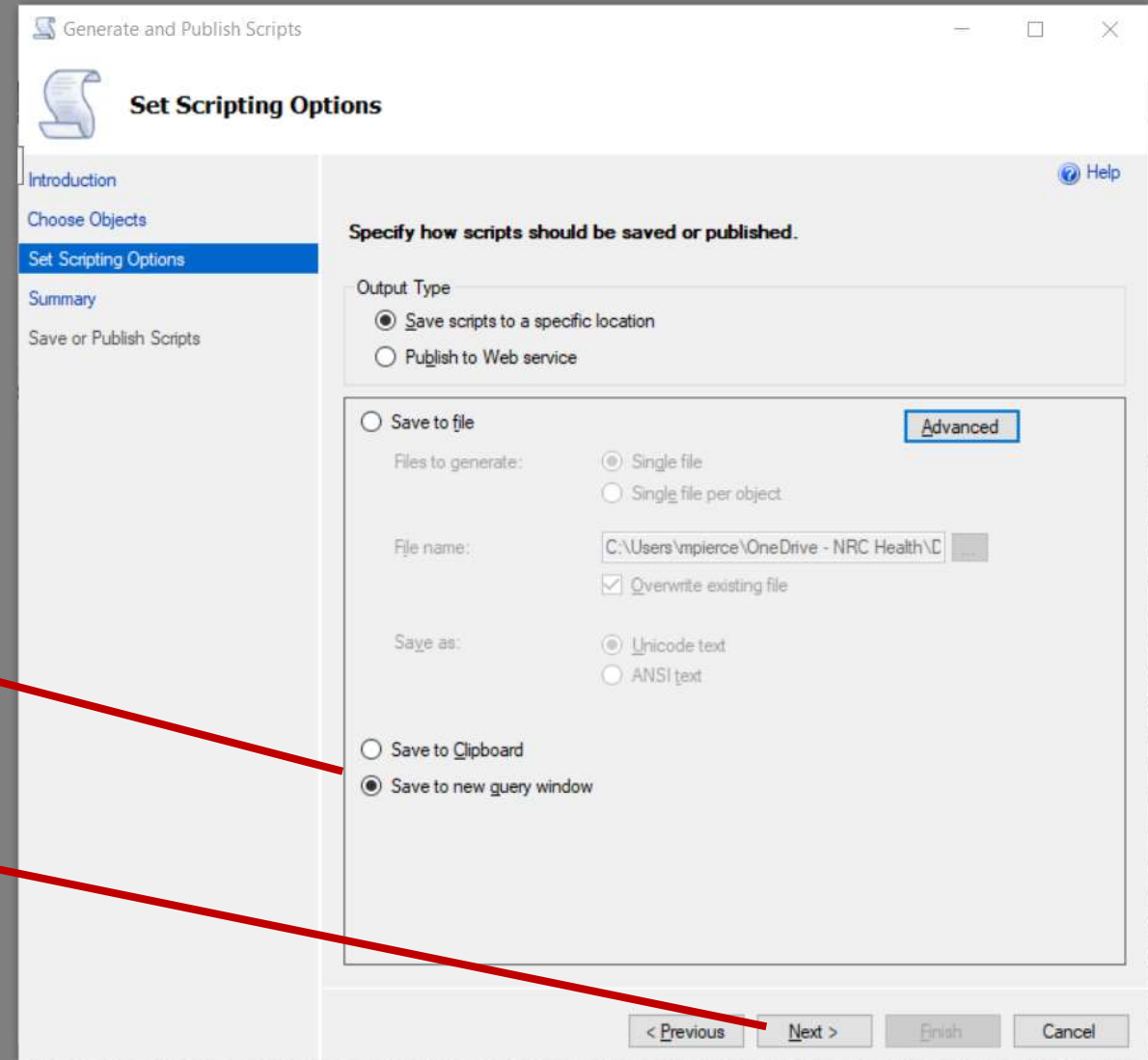
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
 - a. Click “Advanced”
 - b. Select “Data Only” at property Types of data to script
 - c. Click OK button to return



How to Create Script from “Generate Scripts”

There are several steps:

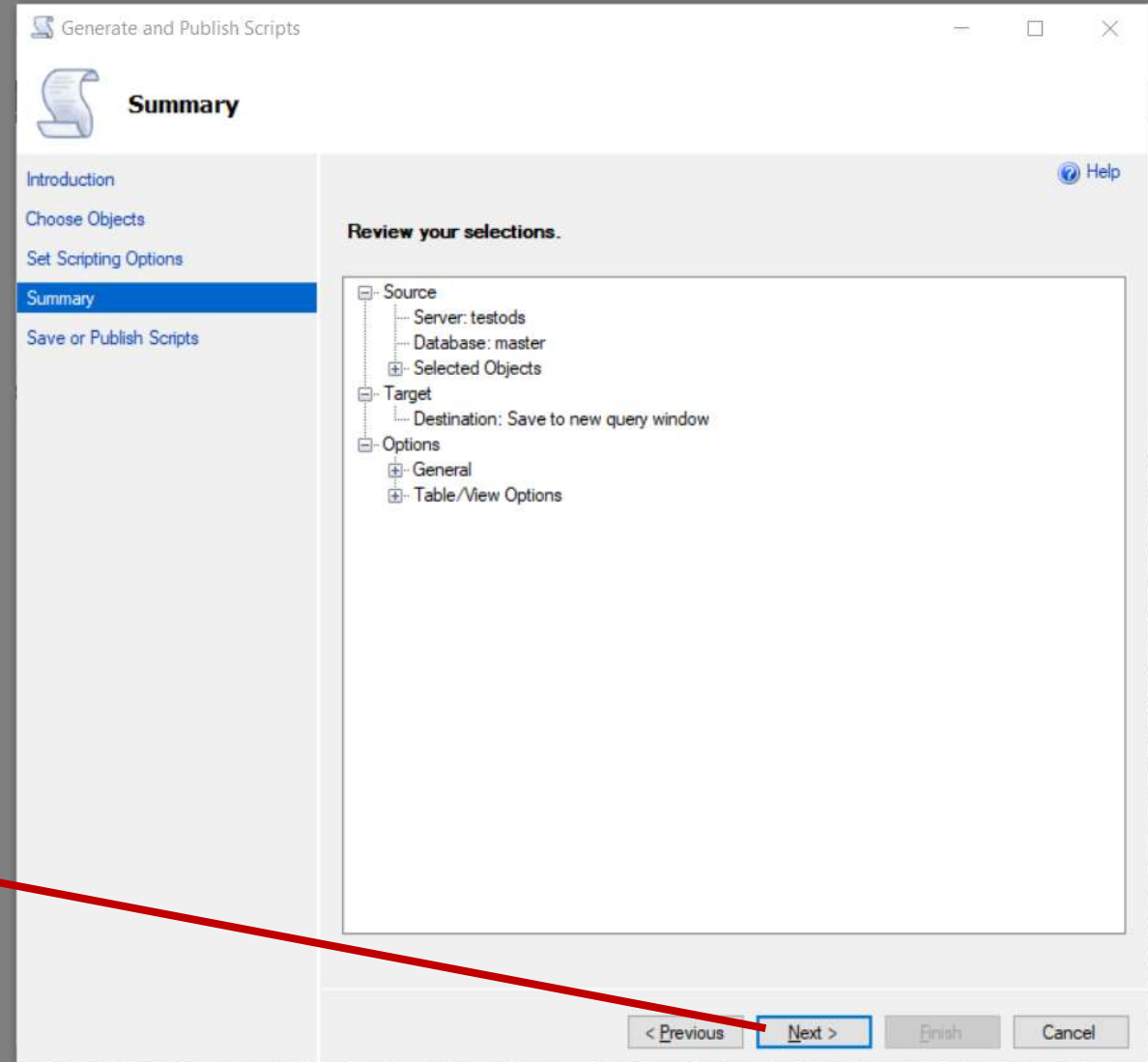
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
 - a. Tick “Save to new query window”
 - b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

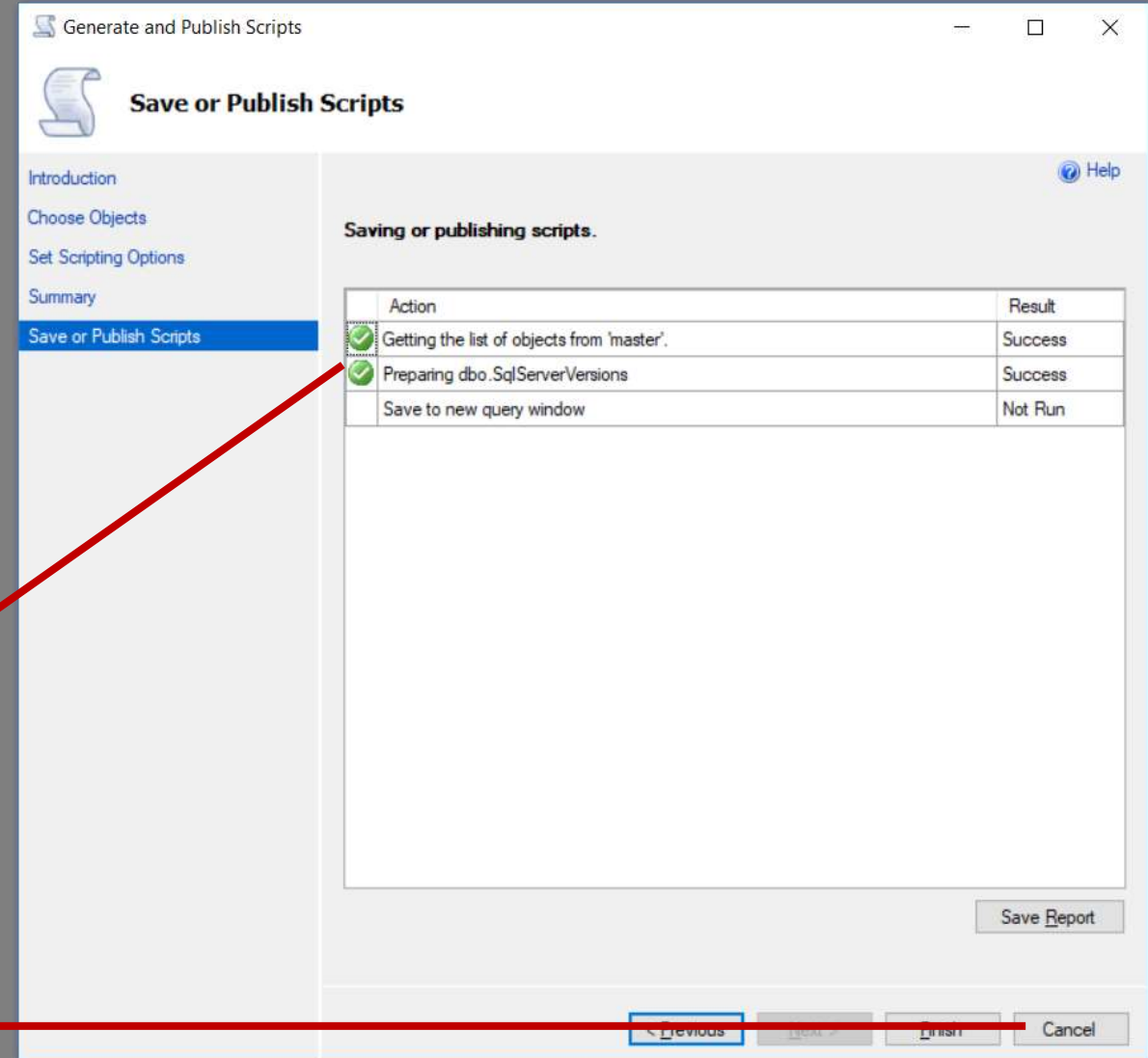
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
 - a. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

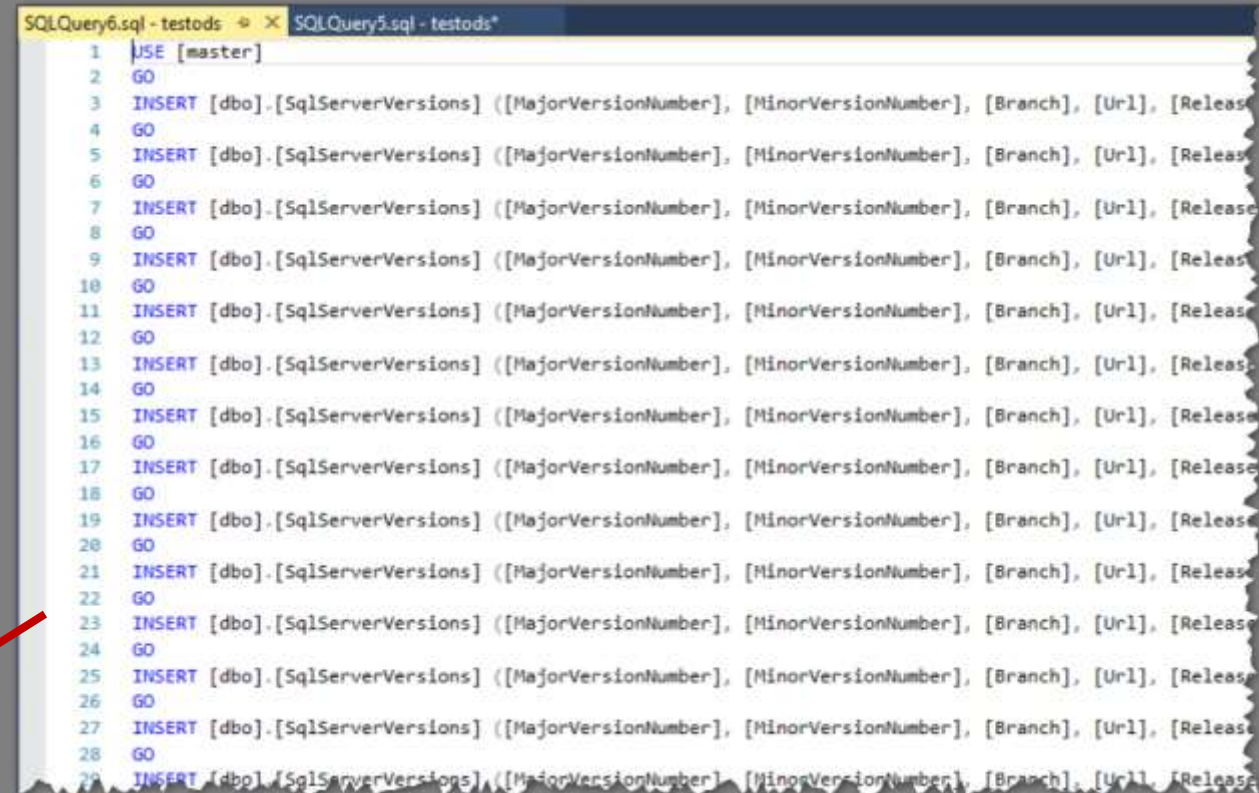
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
7. Job Runs
 - a. Notice job starts running
 - b. Notice query results behind
 - c. Click Cancel



How to Create Script from “Generate Scripts”

There are several steps:

1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
7. Job Runs
8. INSERT INTO Script Generated
 - a. In Query Window below...



The screenshot shows a SQL Query window with a script generated from 'Generate Scripts'. The script is titled 'SQLQuery5.sql - testods*' and contains the following SQL code:

```
1 USE [master]
2 GO
3 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
4 GO
5 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
6 GO
7 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
8 GO
9 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
10 GO
11 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
12 GO
13 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
14 GO
15 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
16 GO
17 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
18 GO
19 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
20 GO
21 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
22 GO
23 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
24 GO
25 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
26 GO
27 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
28 GO
29 INSERT [dbo].[SqlServerVersions] ([MajorVersionNumber], [MinorVersionNumber], [Branch], [Url], [ReleaseDate])
```

A red arrow points from the text 'In Query Window below...' to the script content.

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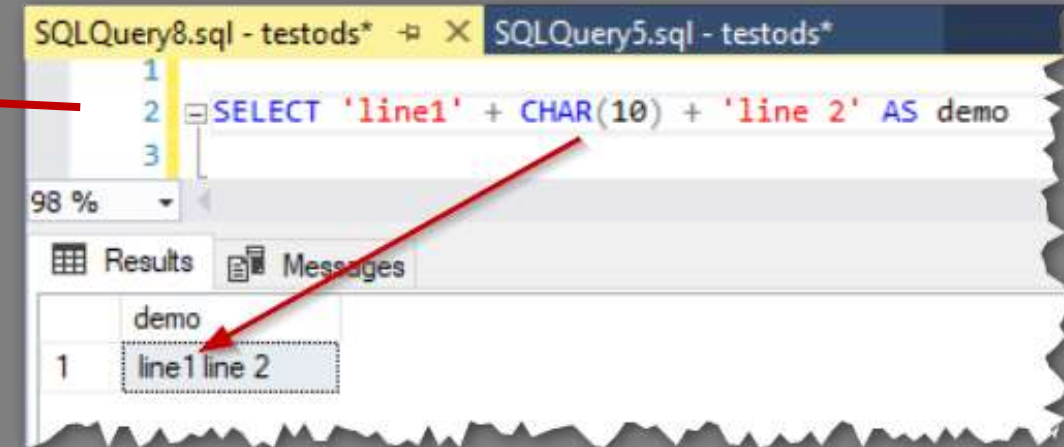
How to Create Script from “A Query”

1. Use SQL Functions...
 - a. CONCAT() = To concatenate multiple string values together



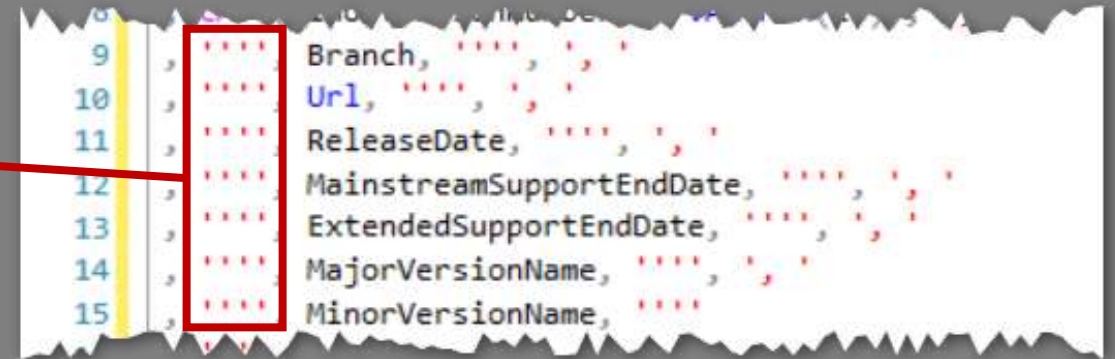
How to Create Script from “A Query”

1. Use SQL Functions...
 - a. CONCAT() = To concatenate multiple string values together
 - b. CHAR(10) = Line Feed



How to Create Script from “A Query”

1. Use SQL Functions...
 - a. CONCAT() = To concatenate multiple string values together
 - b. CHAR(10) = Line Feed
 - c. ''' = a Single Quote Character



How to Create Script from “A Query”

1. Use SQL Functions...
 - a. CONCAT() = To concatenate multiple string values together
 - b. CHAR(10) = Line Feed
 - c. ''' = a Single Quote Character
 - d. Remember to CAST() numeric values as varchar to build strings

```

6      , 'VALUES ('
7      , CAST(MajorVersionNumber AS VARCHAR(10))
8      , CAST(MinorVersionNumber AS VARCHAR(10))
9      , ' , Branch, '

```


How to Create Script from “A Query”

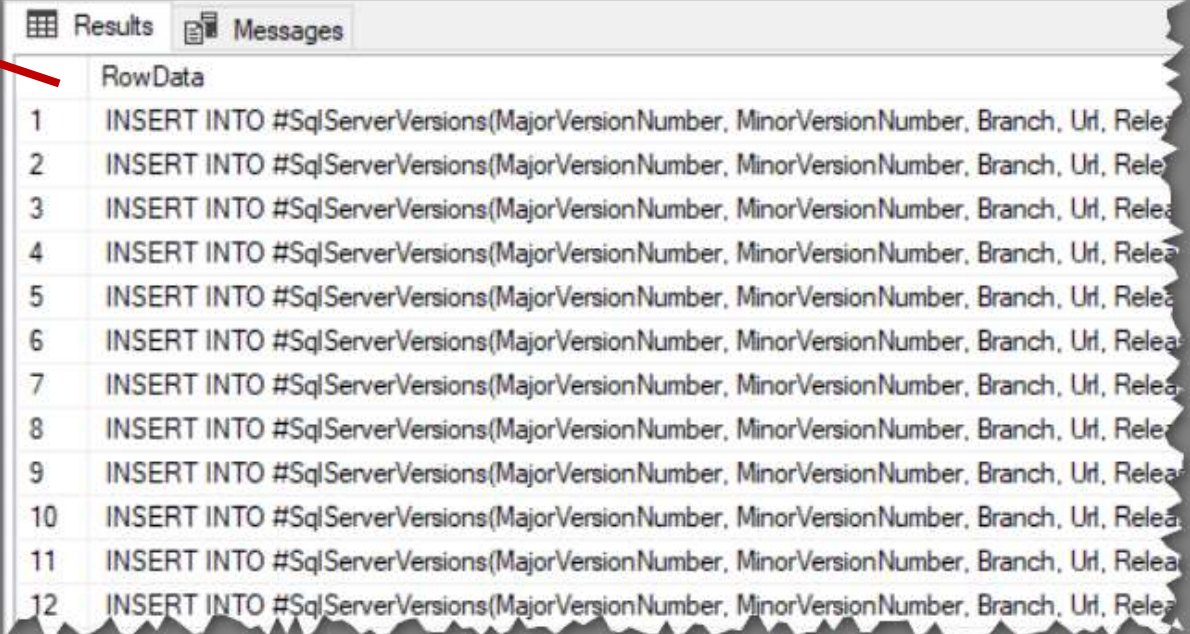
1. Use SQL Functions...
2. ...To Build SQL Command



```
1 SELECT CONCAT(  
2     'INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber'  
3     ', Branch, Url, ReleaseDate, MainstreamSupportEndDate, ExtendedSupportEndDate'  
4     ', MajorVersionName, MinorVersionName) '  
5     , CHAR(10)  
6     , 'VALUES ('  
7     , CAST(MajorVersionNumber AS VARCHAR(10)), ', '  
8     , CAST(MinorVersionNumber AS VARCHAR(10)), ', '  
9     , Branch, ', ', ', '  
10    , Url, ', ', ', '  
11    , ReleaseDate, ', ', ', '  
12    , MainstreamSupportEndDate, ', ', ', '  
13    , ExtendedSupportEndDate, ', ', ', '  
14    , MajorVersionName, ', ', ', '  
15    , MinorVersionName, ', '  
16    , ')'  
17    , CHAR(10)  
18    , 'GO'  
19    , CHAR(10)  
20    ) AS RowData  
21 FROM SqlServerVersions
```

How to Create Script from “A Query”

1. Use SQL Functions...
2. ...To Build SQL Command
3. ...That generates SQL INSERT INTO commands at Results tab



The screenshot shows the 'Results' tab in SQL Server Enterprise Manager. It displays a table with 12 rows of generated SQL commands. A red arrow points from the third step of the list to the 'Results' tab. The table has two columns: 'RowData' and a column containing the generated SQL commands.

	RowData
1	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
2	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
3	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
4	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
5	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
6	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
7	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
8	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
9	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
10	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
11	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea
12	INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch, Url, Relea

How to Create Script from “A Query”

1. Use SQL Functions...
2. ...To Build SQL Command
3. ...That generates SQL INSERT INTO commands at Results tab
4. ...That you Copy-Paste into SSMS Script

```
1 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
2 VALUES (10, 1600, 'RTM ', '', '2008-08-06', '2014-07-08', '2019-07-09', 'SQL Se  
3 GO  
4  
5 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
6 VALUES (10, 1600, 'RTM ', '', '2010-05-10', '2014-07-08', '2019-07-09', 'SQL Se  
7 GO  
8  
9 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
10 VALUES (10, 1617, 'RTM MS11-049: GDR Security Update', 'https://support.microsoft.com/en-us/help/2345451  
11 GO  
12  
13 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
14 VALUES (10, 1702, 'RTM CU1', 'https://support.microsoft.com/en-us/help/981355  
15 GO  
16  
17 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
18 VALUES (10, 1720, 'RTM CU2', 'https://support.microsoft.com/en-us/help/2072493  
19 GO  
20  
21 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
22 VALUES (10, 1734, 'RTM CU3', 'https://support.microsoft.com/en-us/help/2261464  
23 GO  
24  
25 INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,  
26 VALUES (10, 1746, 'RTM CU4', 'https://support.microsoft.com/en-us/help/2345451
```

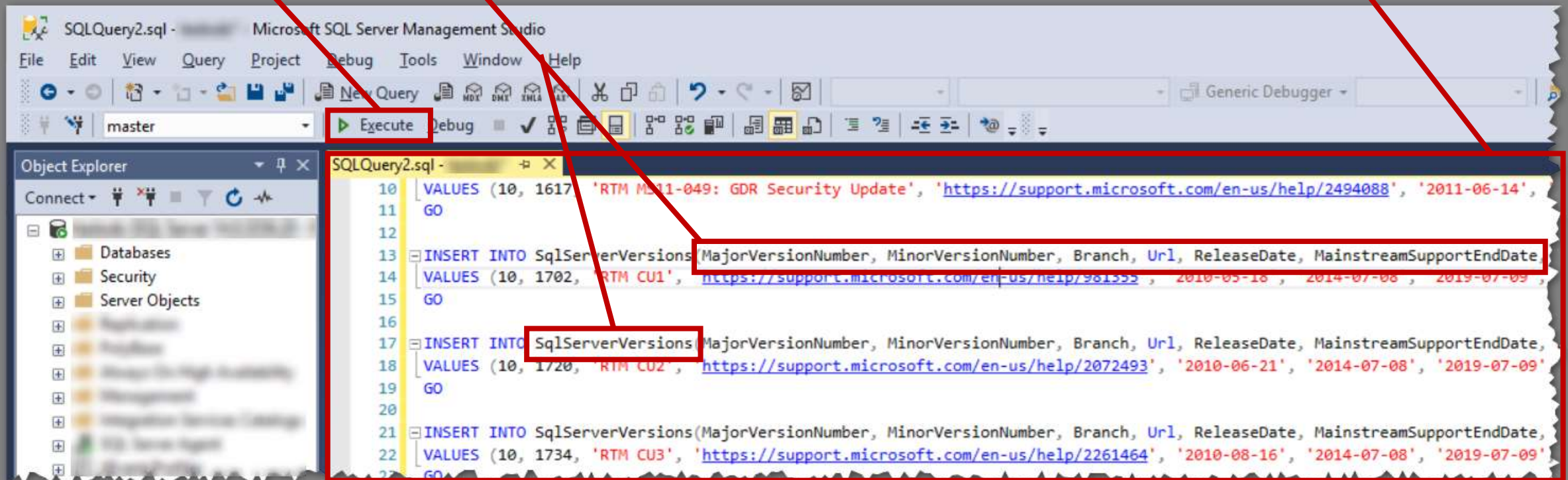
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How to Finalize and Use

1. Copy-Paste-Save Results into Script File
2. Alter Table Name and Column Values as Appropriate
3. Execute Script



Thanks for Watching

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