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

Data

SQL Process

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Insert Into Script

```
CREATE TABLE #CustomerTable (
    Cust_ID   INTEGER      NOT NULL
  , CustName  VARCHAR(200) NOT NULL
)

INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (2, 'Beta Company')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (3, 'Cetera Company')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (4, 'Theta Company')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (5, 'Zeta Company')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (6, 'Phi Fy Fo Phum')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (7, 'Abracadabra Enterprises')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (8, 'Metropolitan Grill')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (33, 'Ivar''s Chowderhouse')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (34, 'McDonalds')
GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (35, 'Burger King')
GO
```

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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

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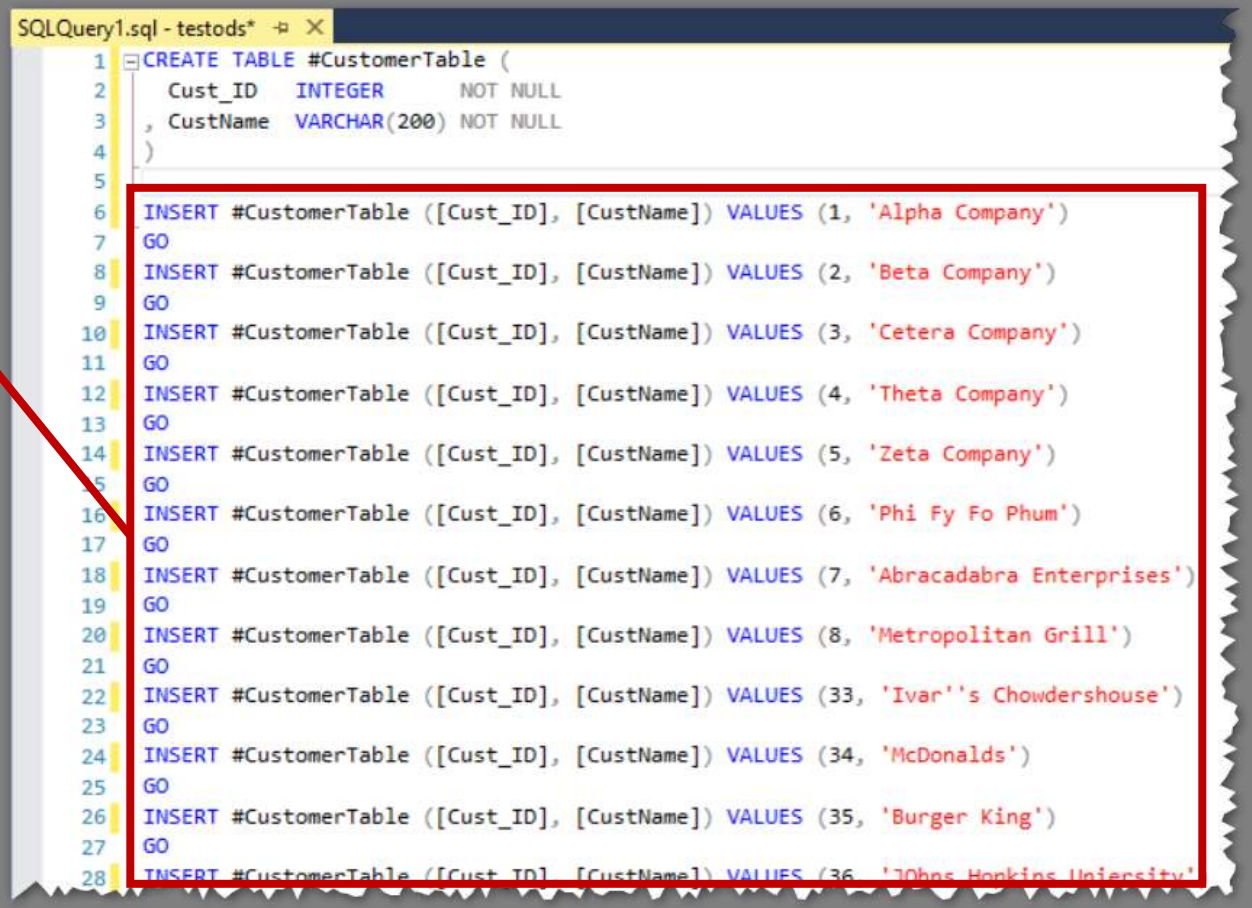
What is the Output?

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.



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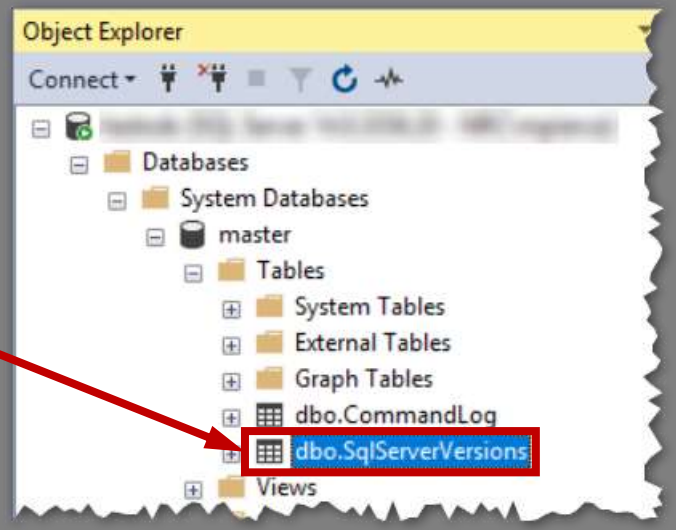
What is the Input?

Two Input Styles:

1. Complete Tables



What is the Input?

Two Input Styles:

1. Complete Tables
2. SQL Queries

```
SELECT CONCAT(
    'INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber'
  , ', Branch, Url, ReleaseDate, MainstreamSupportEndDate, ExtendedSupportEndDate'
  , ', MajorVersionName, MinorVersionName) '
  , CHAR(10)
  , 'VALUES ('
  , CAST(MajorVersionNumber AS VARCHAR(10)), ', '
  , CAST(MinorVersionNumber AS VARCHAR(10)), ', '
  , '''', Branch, '''', ', '
  , '''', Url, '''', ', '
  , '''', ReleaseDate, '''', ', '
  , '''', MainstreamSupportEndDate, '''', ', '
  , '''', ExtendedSupportEndDate, '''', ', '
  , '''', MajorVersionName, '''', ', '
  , '''', MinorVersionName, ''''
  , ')'
  , CHAR(10)
  ,'GO'
  , CHAR(10)
  ) AS RowData
FROM SqlServerVersions
```

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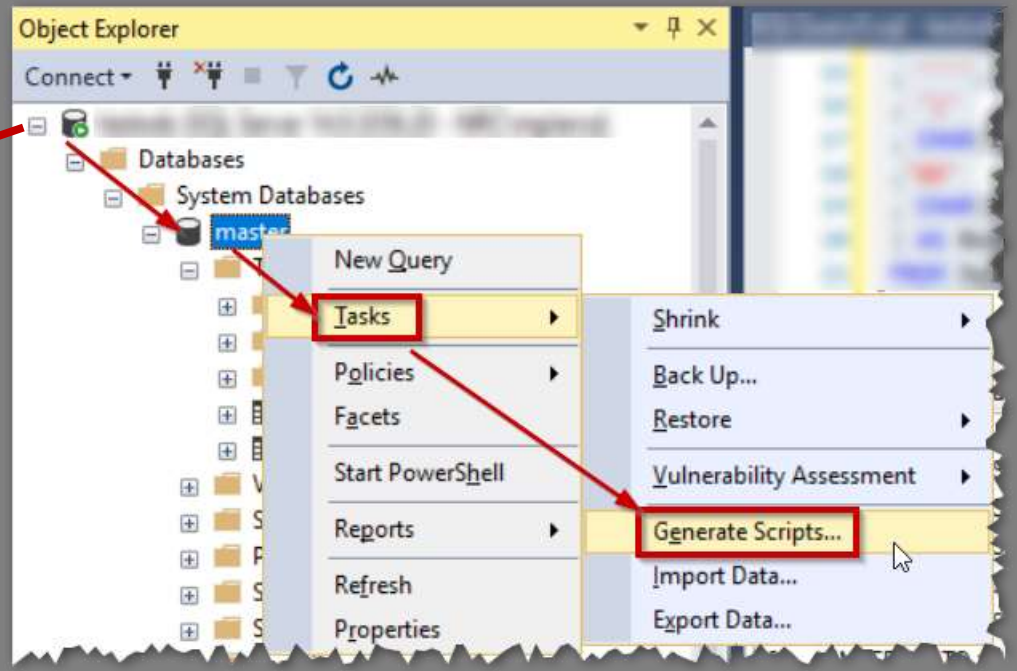
How to Create Script from “Generate Scripts”

There are several steps:

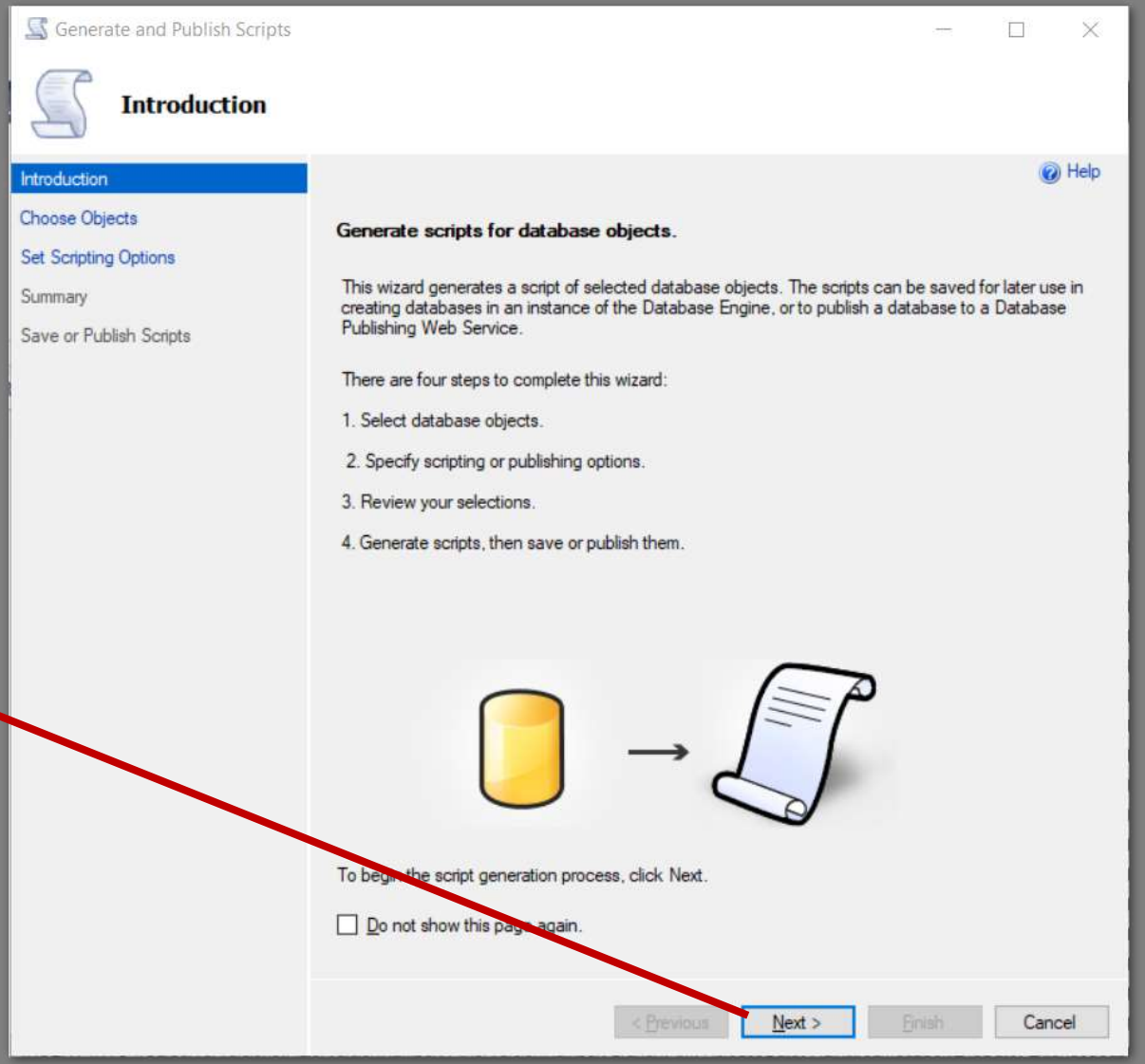
1. Open Script Dialog
   a. Right-click database
   b. Select Tasks
   c. Select Generate Scripts



How to Create Script from “Generate Scripts”

There are several steps:

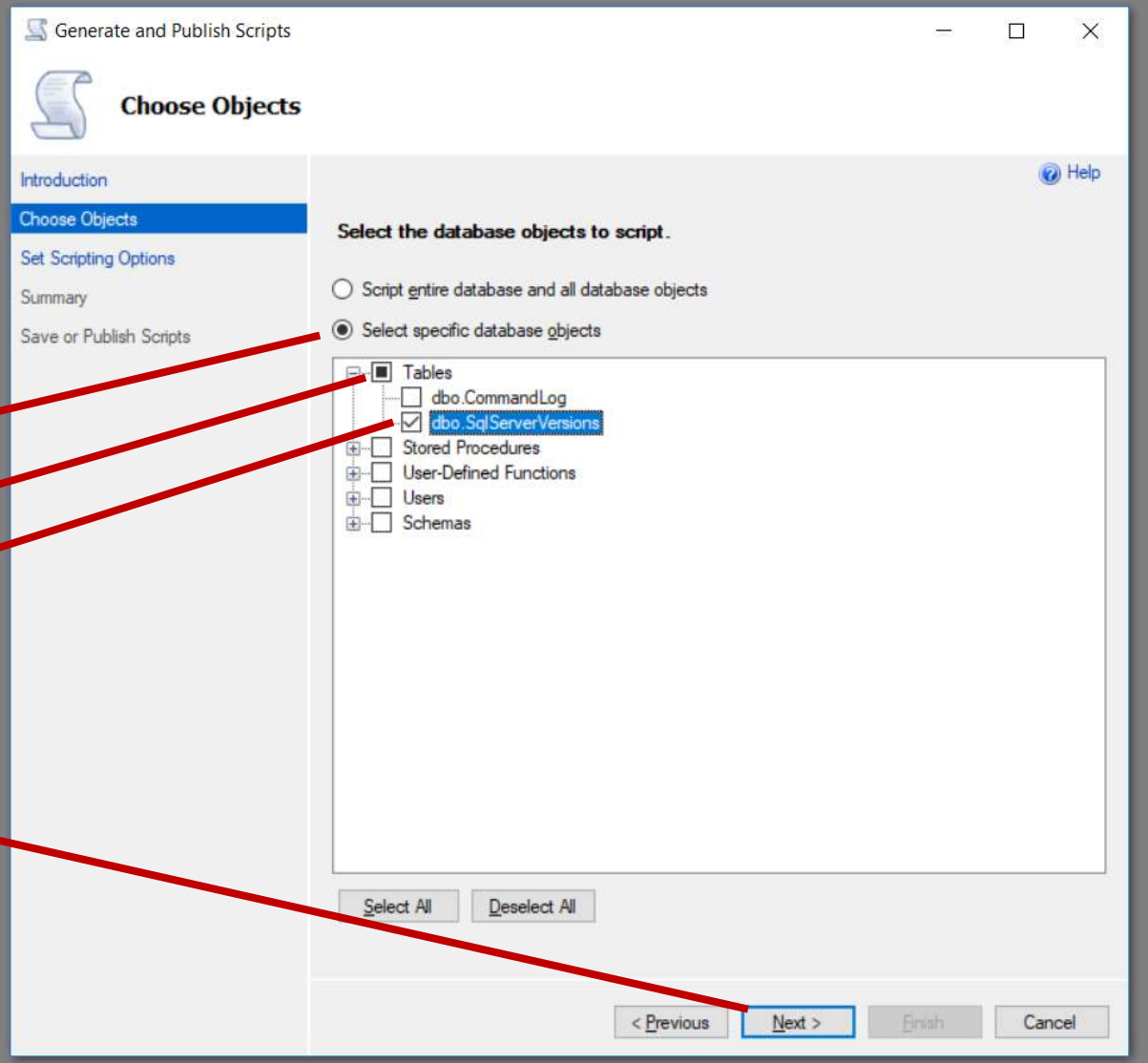
1. Open Script Dialog
2. Skip Introduction Step
   a. Popup arrives
   b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

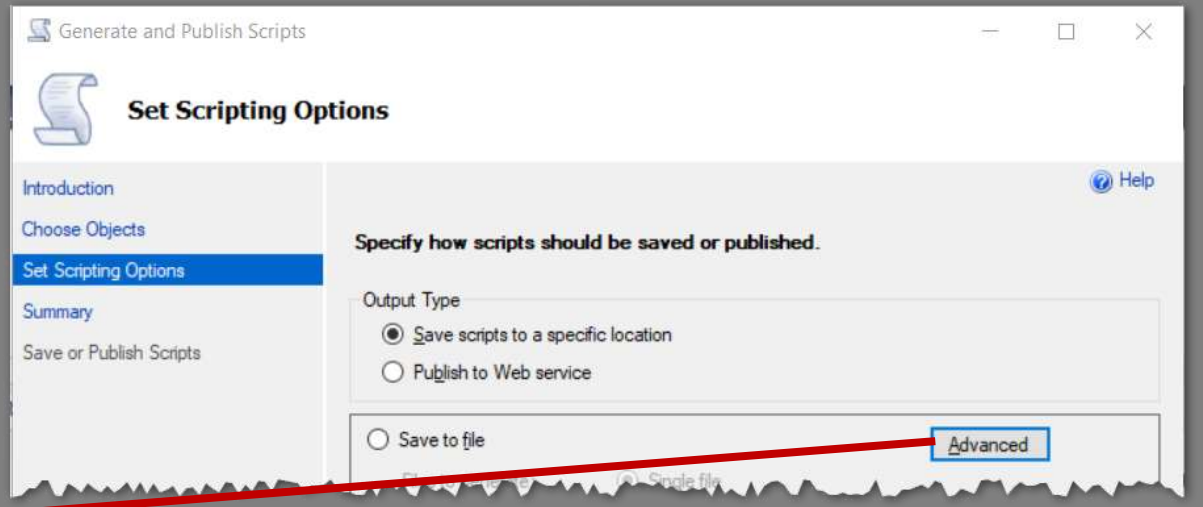
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
   a. Tick “Select specific database objects”
   b. Tick “Table”
   c. Tick the specific table to script out
   d. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

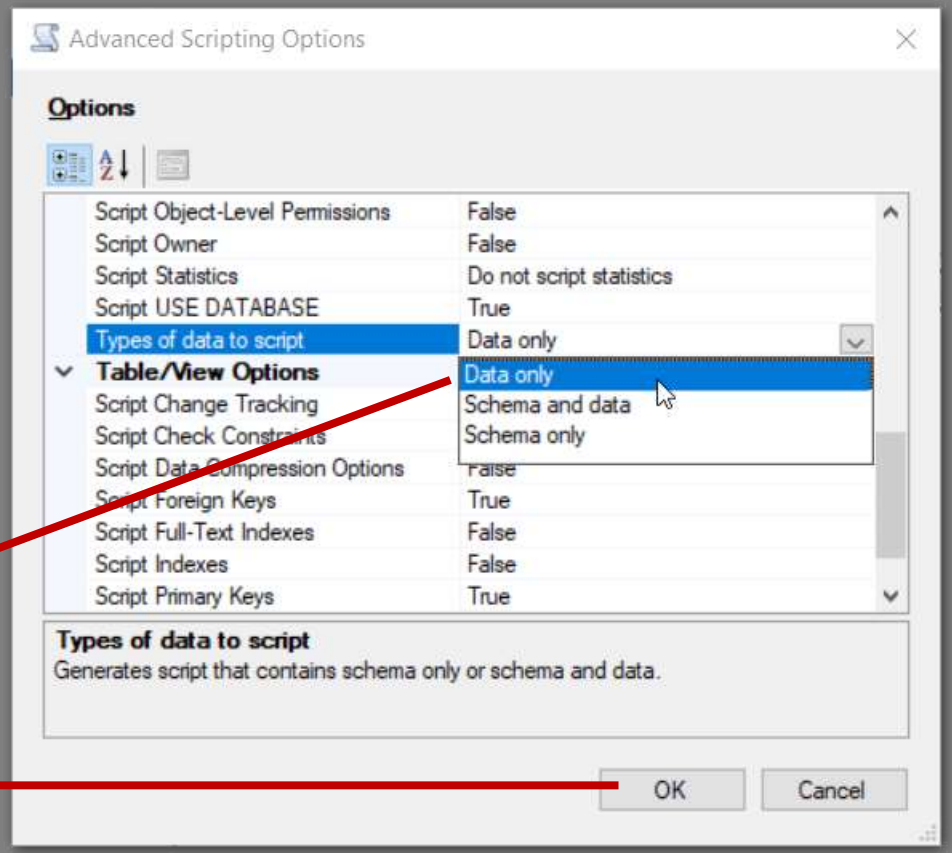
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
   a. Click “Advanced”



How to Create Script from “Generate Scripts”

There are several steps:

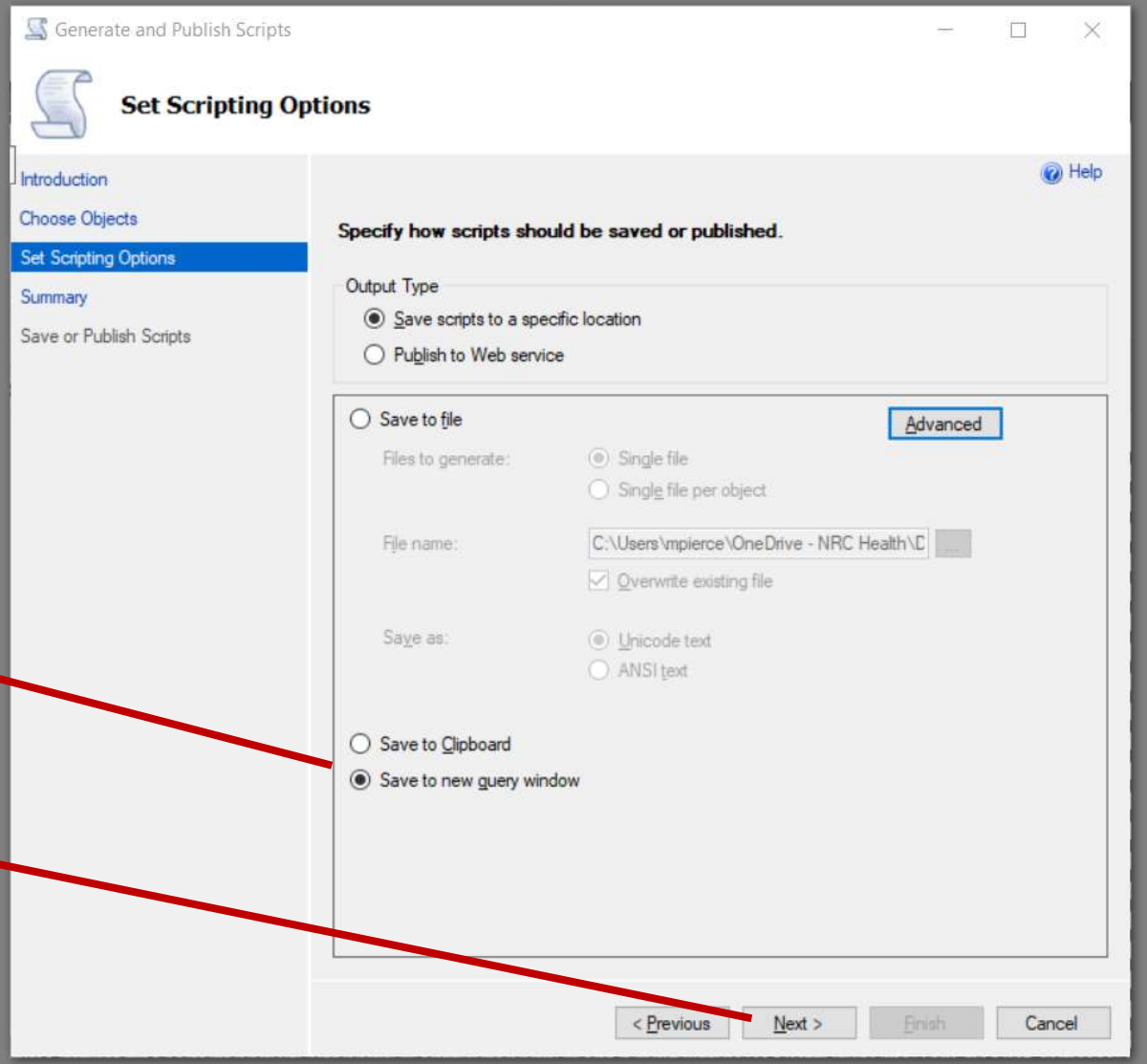
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
   a. Click “Advanced”
   b. Select “Data Only” at property Types of data to script
   c. Click OK button to return



How to Create Script from “Generate Scripts”

There are several steps:

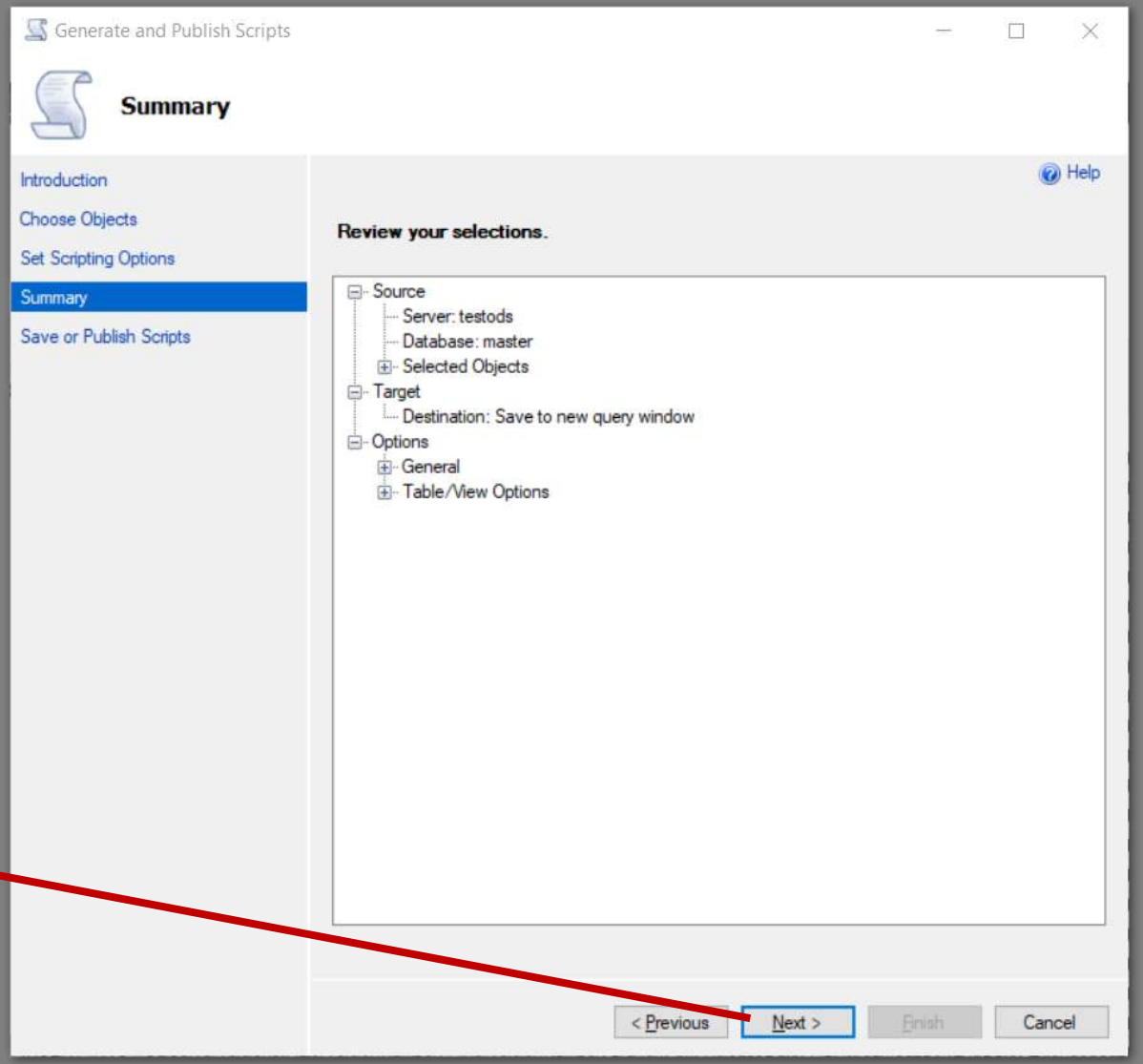
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
   a. Tick “Save to new query window”
   b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

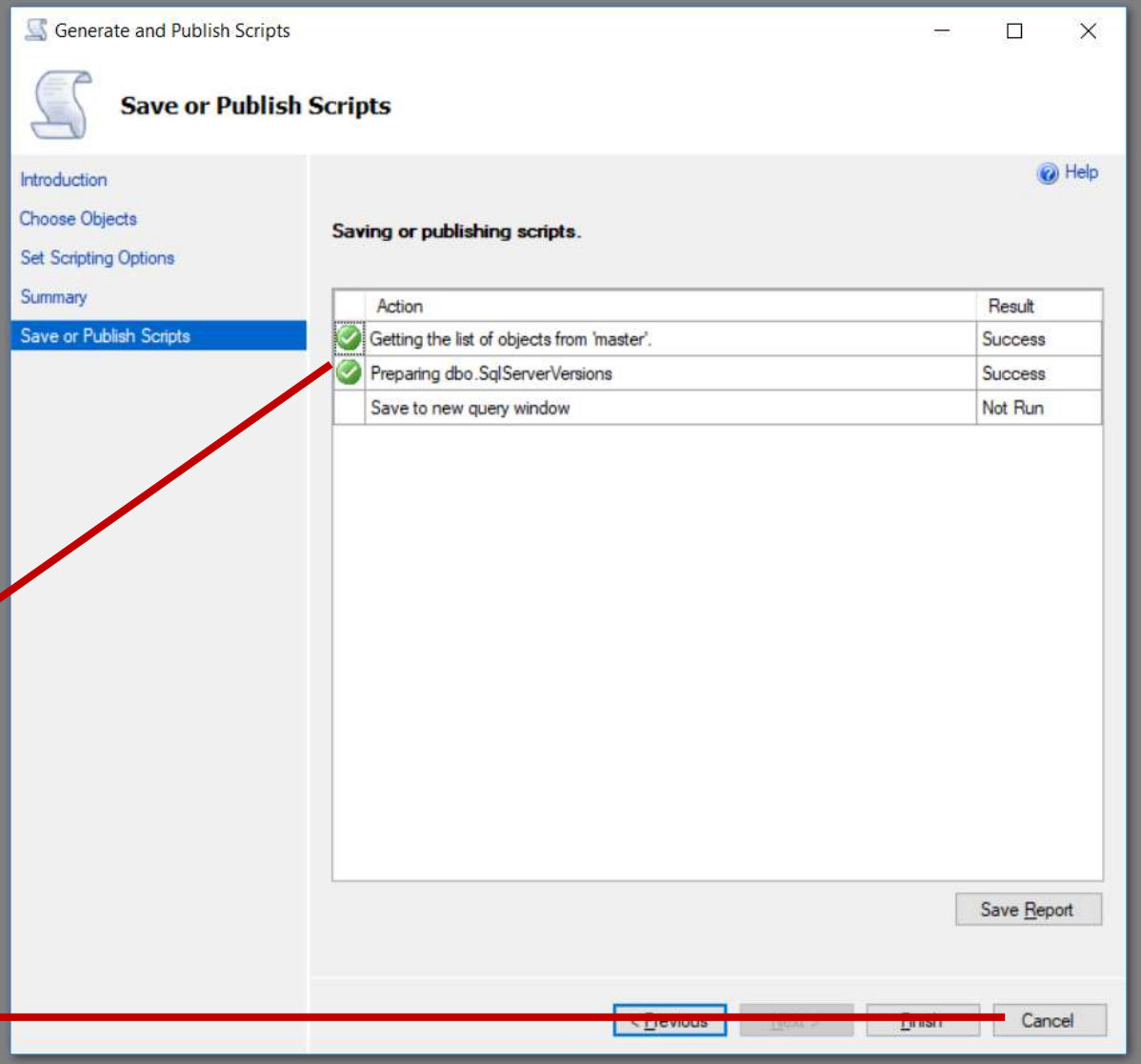
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
   a. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

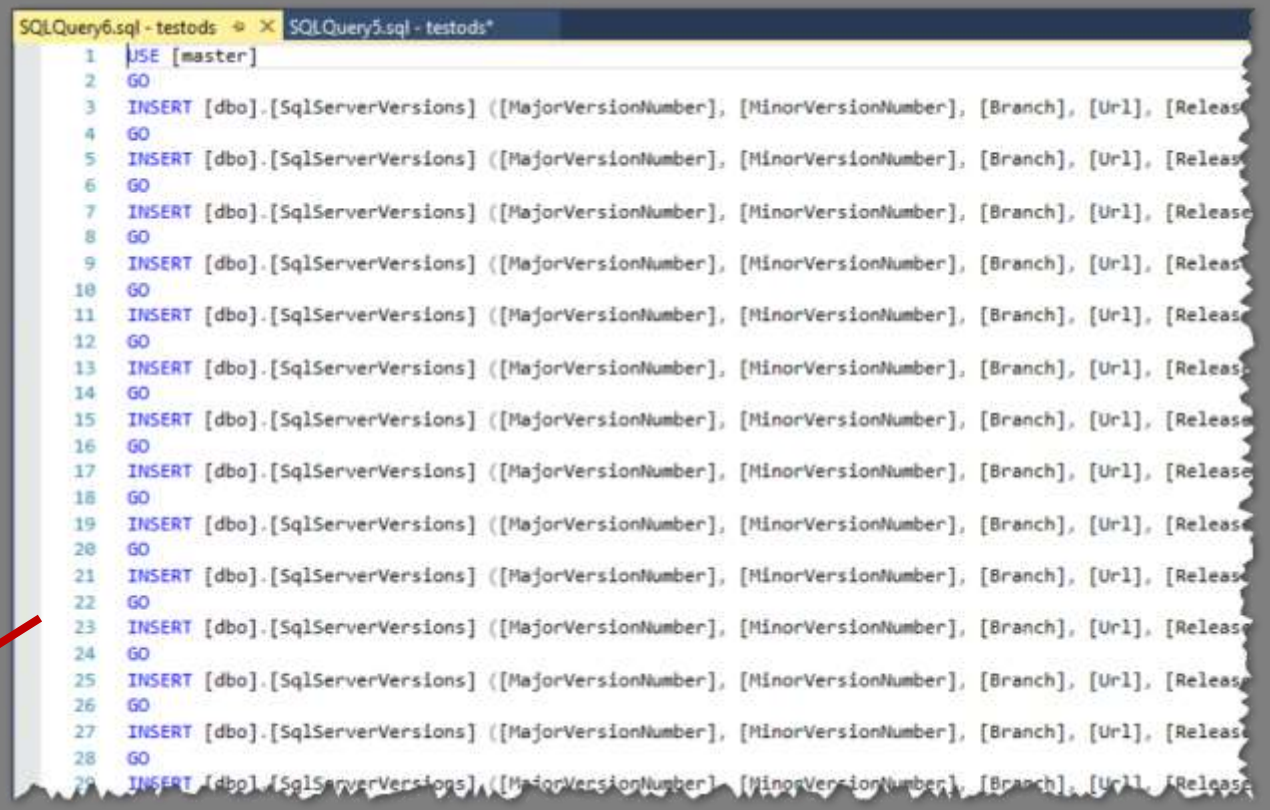
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
7. Job Runs
   a. Notice job starts running
   b. Notice query results behind
   c. Click Cancel



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…



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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”

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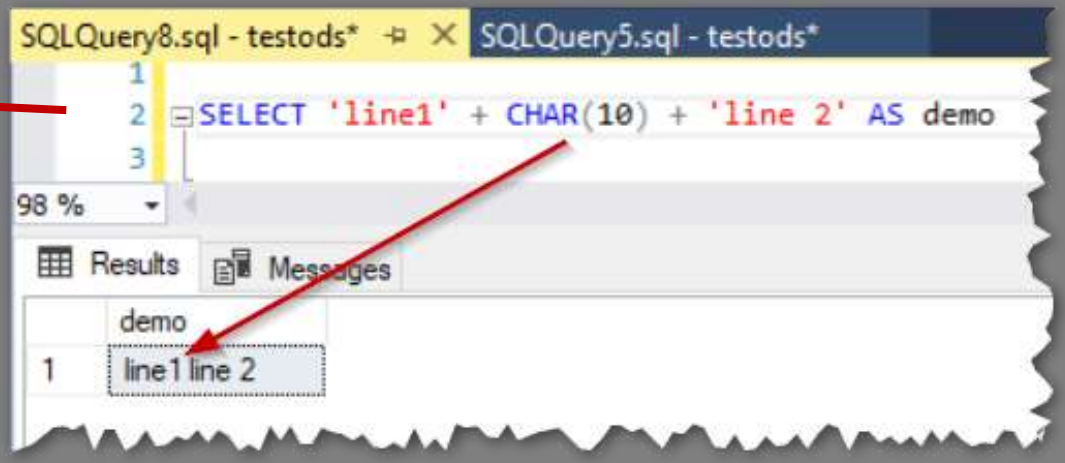
   a. CONCAT() = To concatenate multiple string values together
   b. CHAR(10) = Line Feed

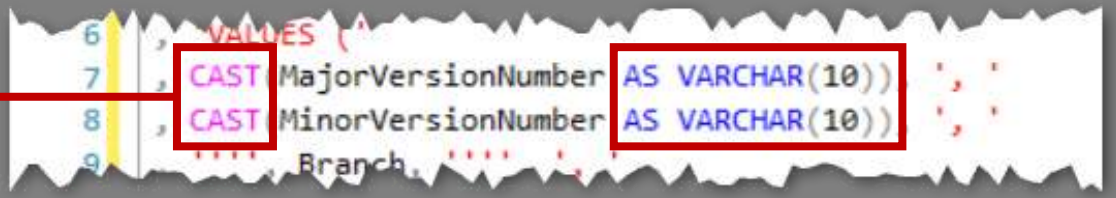


How to Create Script from “A Query”

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 varchars to build strings



How to Create Script from “A Query”

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

```
SELECT CONCAT(
    'INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber'
  , ', Branch, Url, ReleaseDate, MainstreamSupportEndDate, ExtendedSupportEndDate'
  , ', MajorVersionName, MinorVersionName) '
  , CHAR(10)
  , 'VALUES ('
  , CAST(MajorVersionNumber AS VARCHAR(10)), ', '
  , CAST(MinorVersionNumber AS VARCHAR(10)), ', '
  , '''', Branch, '''', ', '
  , '''', Url, '''', ', '
  , '''', ReleaseDate, '''', ', '
  , '''', MainstreamSupportEndDate, '''', ', '
  , '''', ExtendedSupportEndDate, '''', ', '
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  , '''', MinorVersionName, ''''
  , ')'
  , CHAR(10)
  ,'GO'
  , CHAR(10)
  ) AS RowData
FROM SqlServerVersions
```
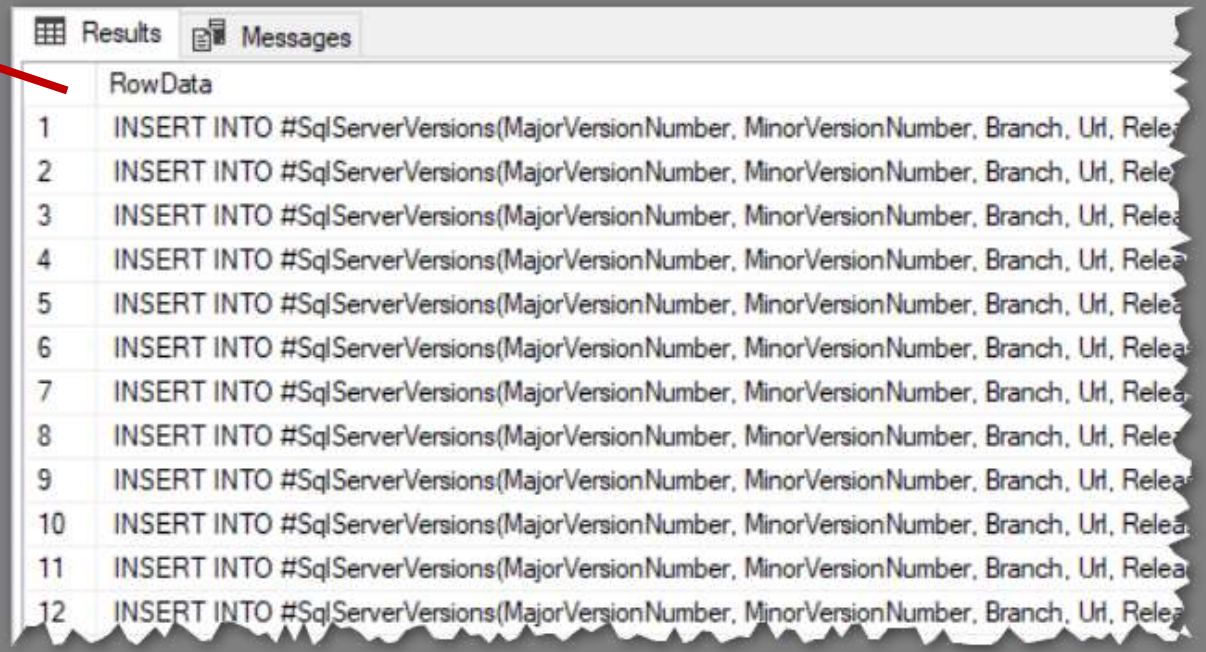
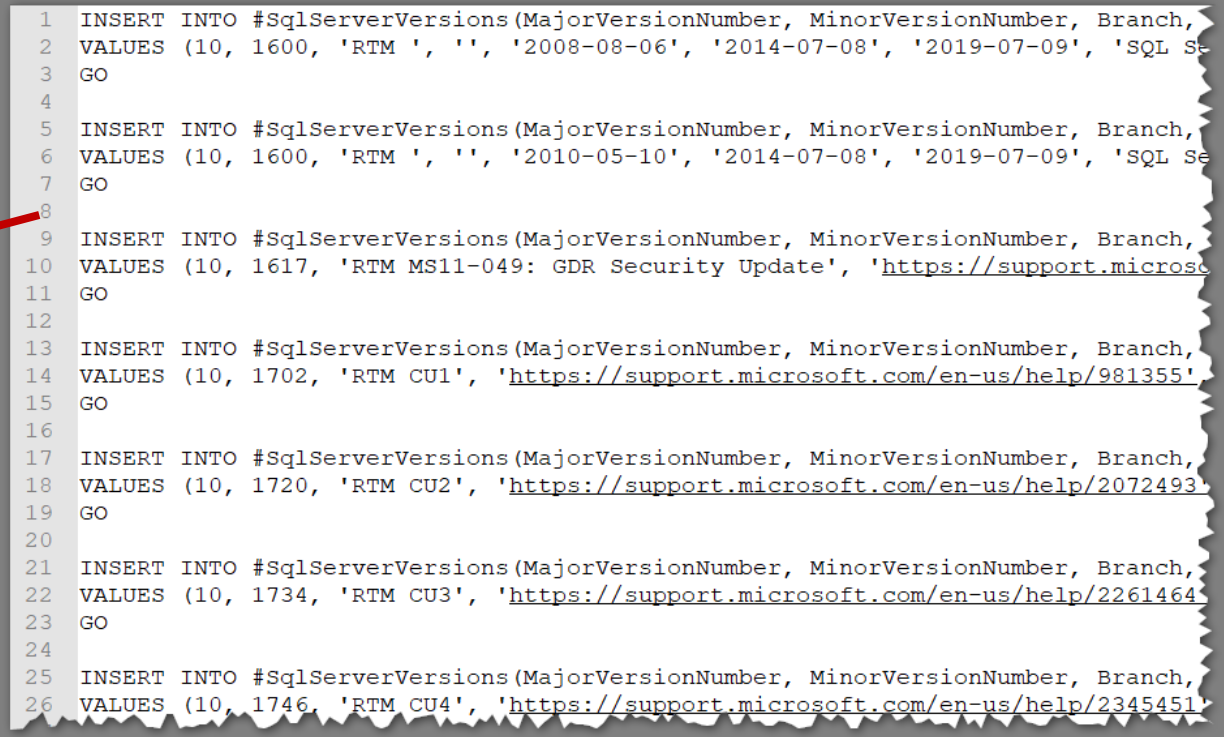

How to Create Script from “A Query”

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



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



```
INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1600, 'RTM ', '', '2008-08-06', '2014-07-08', '2019-07-09', 'SQL S
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1600, 'RTM ', '', '2010-05-10', '2014-07-08', '2019-07-09', 'SQL Se
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1617, 'RTM MS11-049: GDR Security Update', 'https://support.microso
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1702, 'RTM CU1', 'https://support.microsoft.com/en-us/help/981355'
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1720, 'RTM CU2', 'https://support.microsoft.com/en-us/help/2072493'
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1734, 'RTM CU3', 'https://support.microsoft.com/en-us/help/2261464'
GO

INSERT INTO #SqlServerVersions(MajorVersionNumber, MinorVersionNumber, Branch,
VALUES (10, 1746, 'RTM CU4', 'https://support.microsoft.com/en-us/help/2345451'
```

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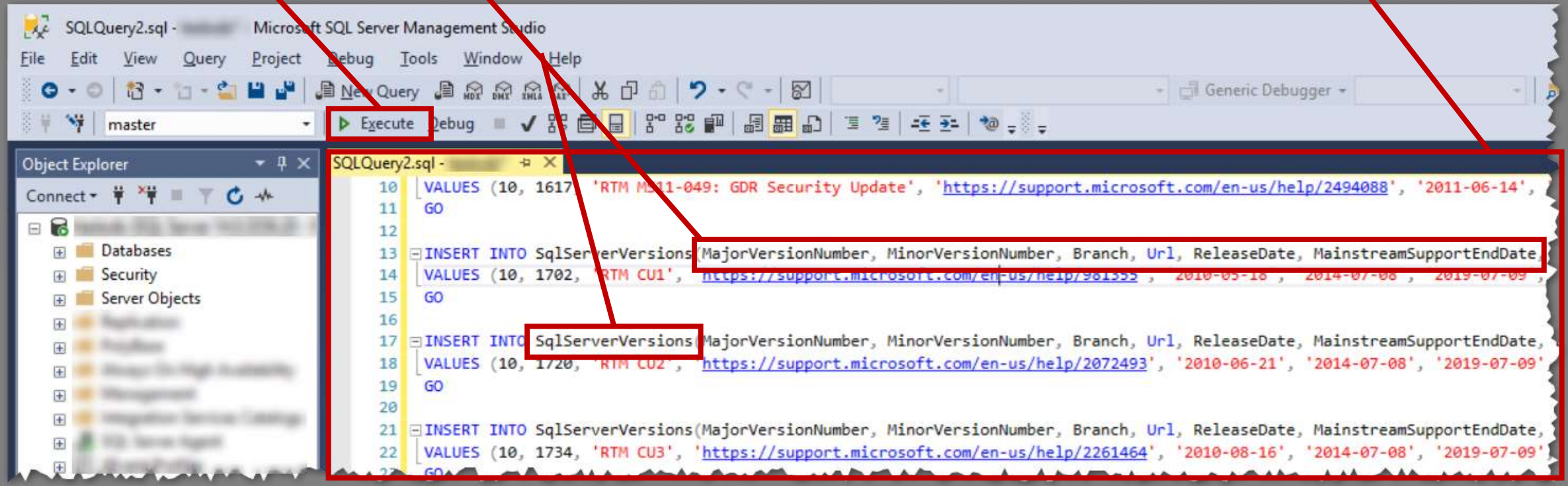
How to Finalize and Use

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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