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

INPUT

Data

PROCESS

Using 2 Different Methods

OUTPUT

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 Py 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 an “Insert Into” SQL Script

Quick Trainer Series

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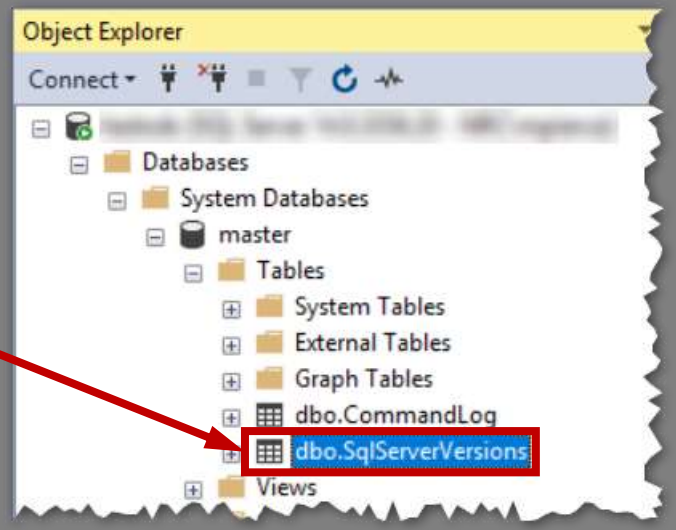
How to Dump Data to an “Insert Into” SQL Script

- **What is the Input?**
- What is the Output?
- How to Use “Generate Scripts” to Create Insert Into’s from “Table”
- How to Use “A Query” to Create Insert Into’s from “Select Data”
- How to Finalize & Use

What is the Input?

Two Input Styles:

1. Complete Table



What is the Input?

Two Input Styles:

1. Complete Table
2. SQL Query

```
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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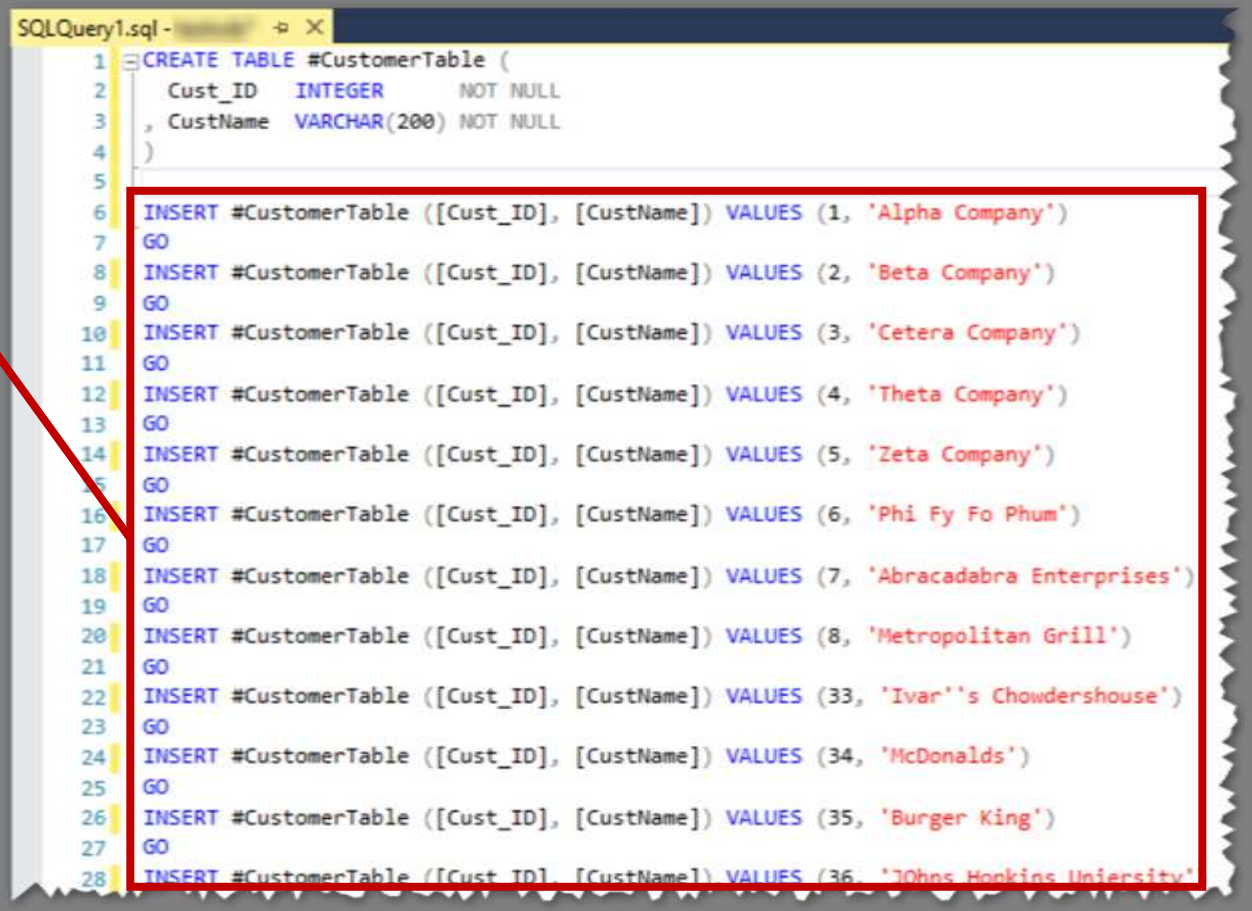
What is the Output?

Output = “INSERT INTO” SQL script



What is the Output?

Output = “INSERT INTO” SQL script

- Every row Input = line of Output

SQLQuery1.sql -

```
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GO
INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (36, 'JOhns Hopkins Uniersity')
```

What is the Output?

Output = “INSERT INTO” SQL script

- Every row Input = line of Output
- Inserts into a table
- Calls out columns
- Specifies matching values

SQLQuery1.sql -

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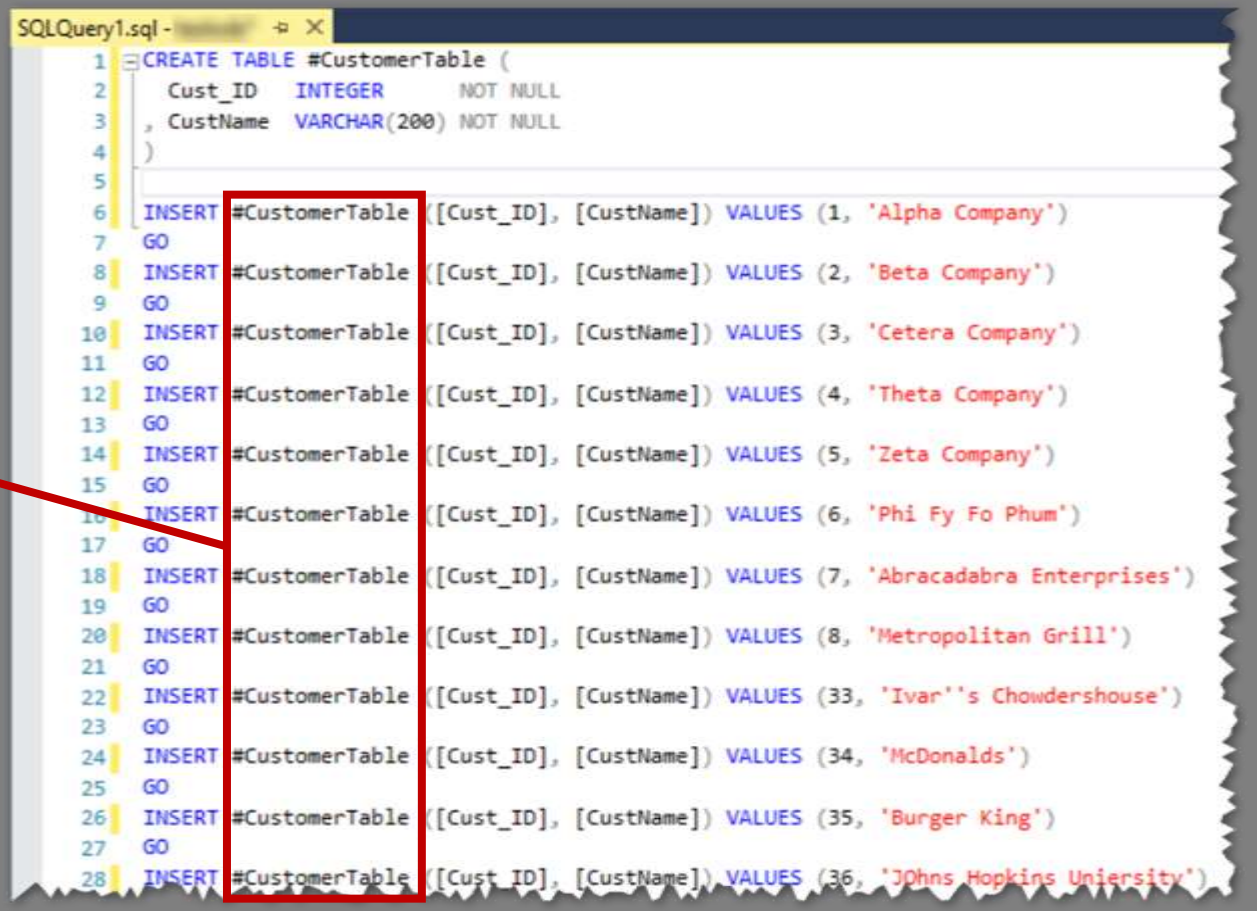
What is the Output?

Output = “INSERT INTO” SQL script

- Every row Input = line of Output
- Inserts into a table
- Calls out columns
- Specifies matching values
- Output modified to run against different databases or tables



What is the Output?

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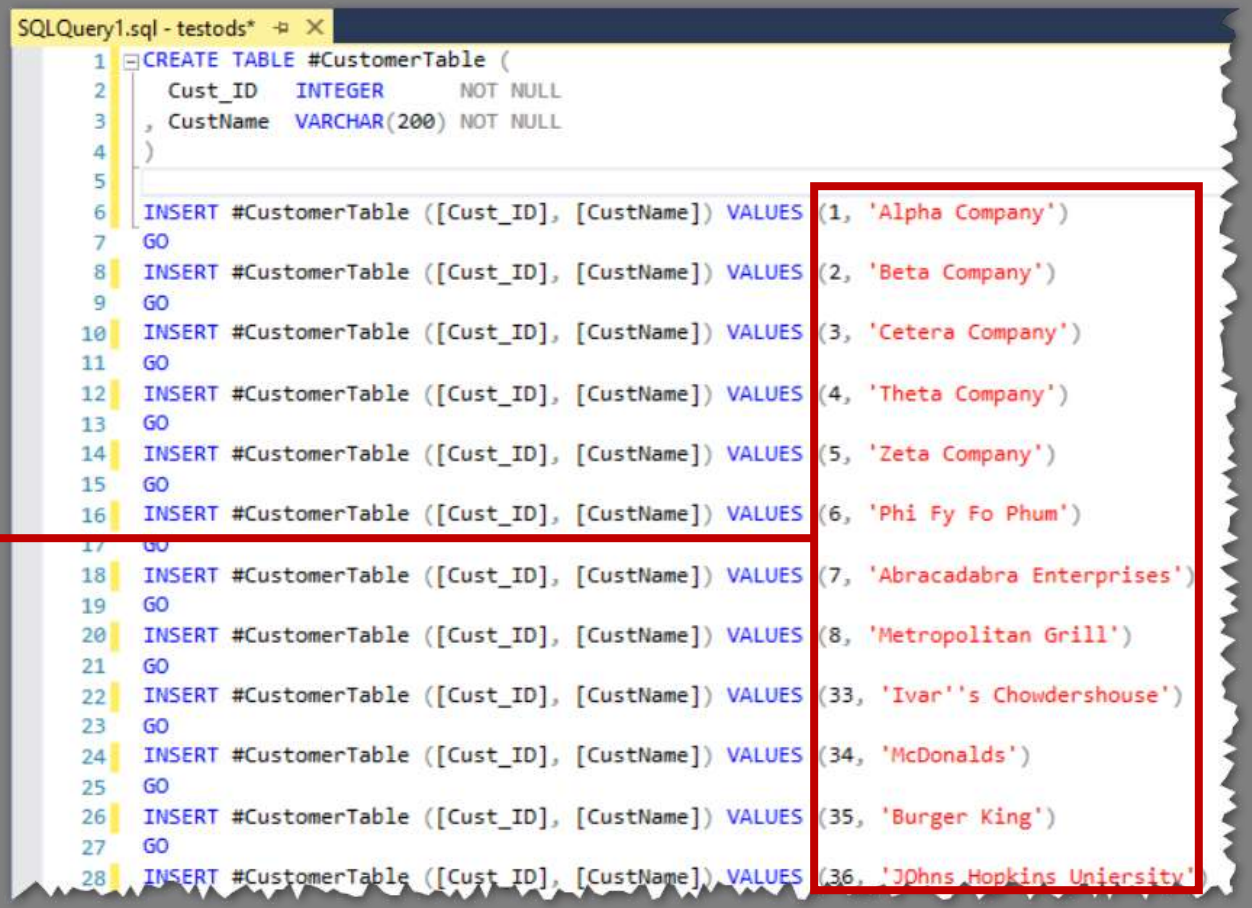
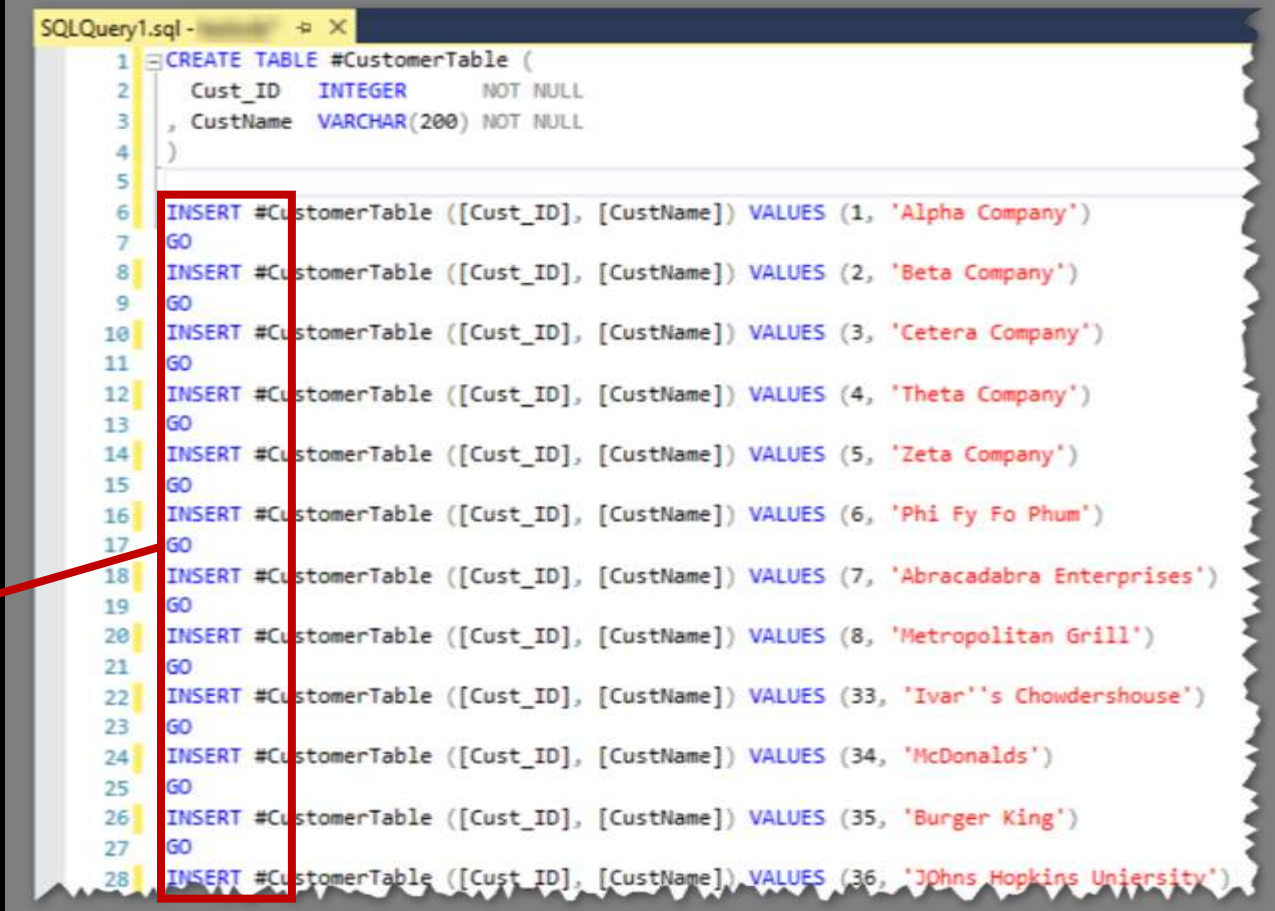


What is the Output?

Output = “INSERT INTO” SQL script

- Every row Input = line of Output
- Inserts into a table
- Calls out columns
- Specifies matching values
- Output modified to run against different databases or tables
- Output modified to generate test data
- Note - “INTO” is optional … can just be “INSERT” as shown here.
  ANSI requires INTO, MSSQL does not.



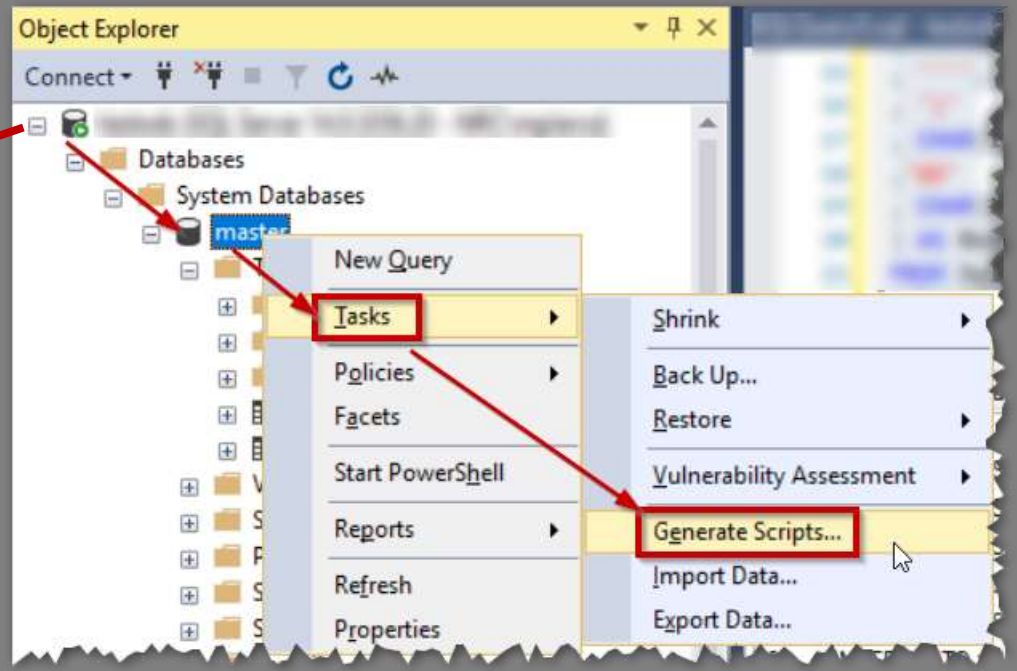
How to Dump Data to an “Insert Into” SQL Script

- What is the Input?
- What is the Output?
- **How to Use “Generate Scripts” to Create Insert Into’s from “Table”**
- How to Use “A Query” to Create Insert Into’s from “Select Data”
- How to Finalize & Use

How to Create Script from “Generate Scripts”

There are several steps:

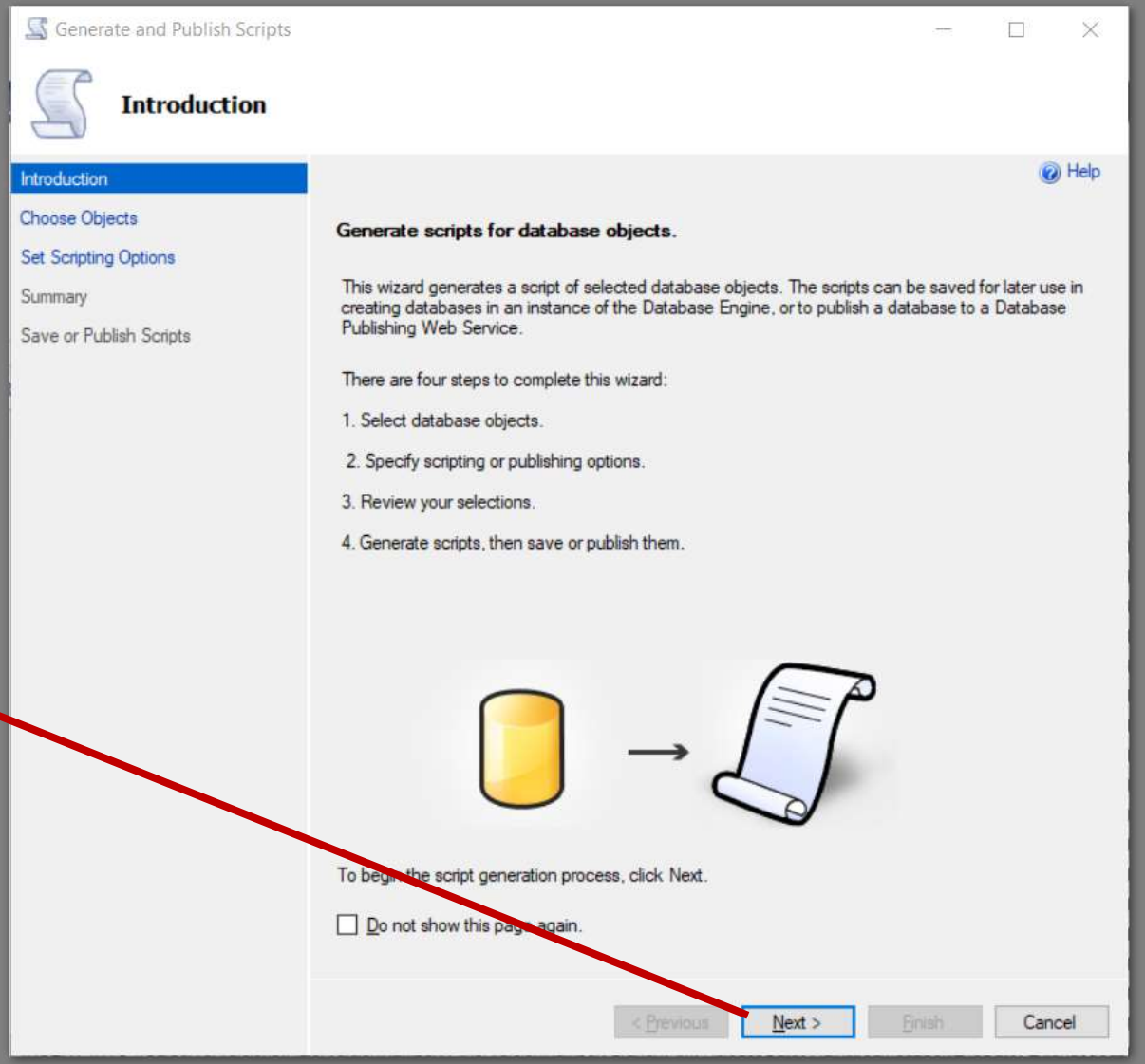
1. Open Script Dialog
   a. Right-click database
   b. Select Tasks
   c. Select Generate Scripts



How to Create Script from “Generate Scripts”

There are several steps:

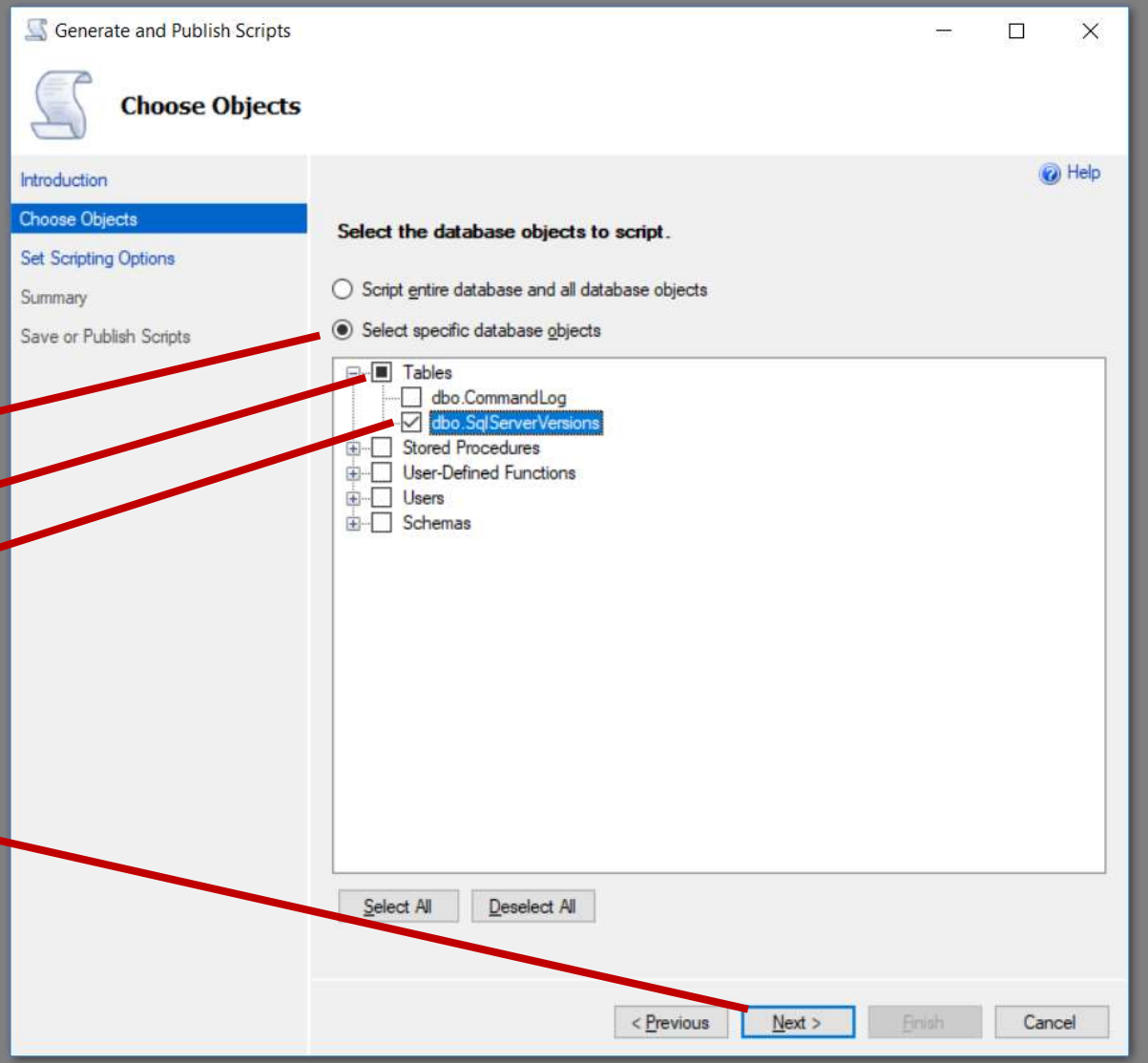
1. Open Script Dialog
2. Skip Introduction Step
   a. Popup arrives
   b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

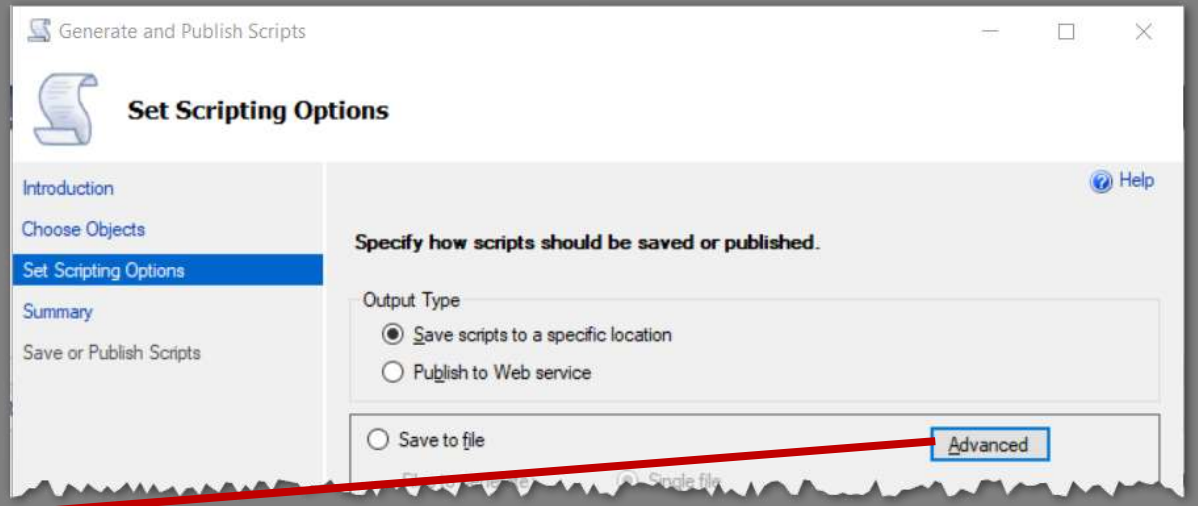
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
   a. Tick “Select specific database objects”
   b. Tick “Table”
   c. Tick the specific table to script out
   d. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

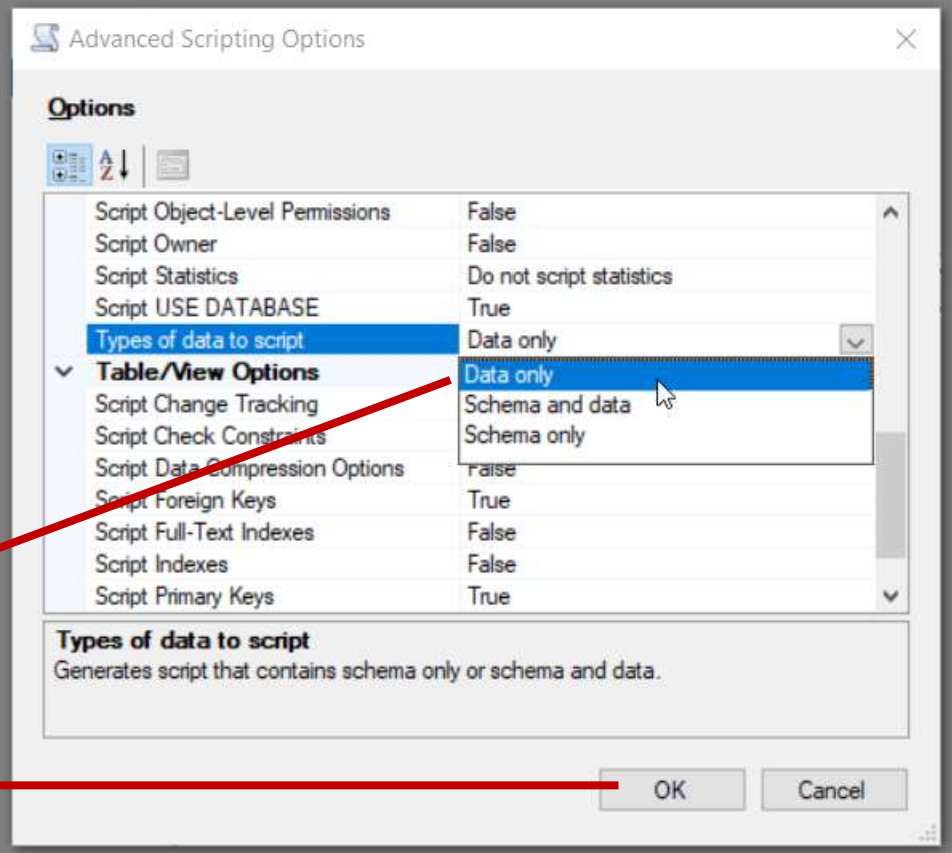
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
   a. Click “Advanced”



How to Create Script from “Generate Scripts”

There are several steps:

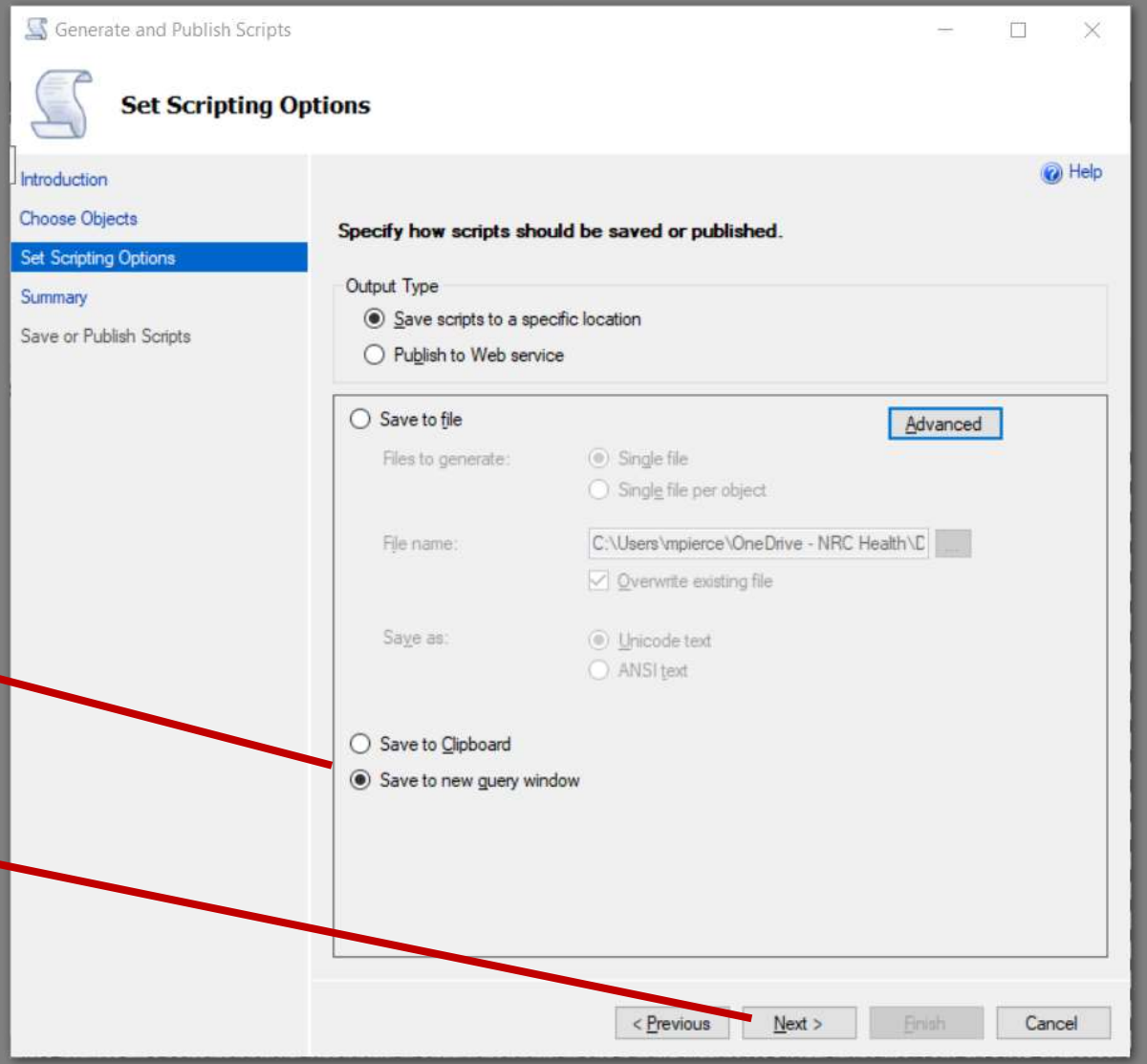
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
   a. Click “Advanced”
   b. Select “Data Only” at property Types of data to script
   c. Click OK button to return



How to Create Script from “Generate Scripts”

There are several steps:

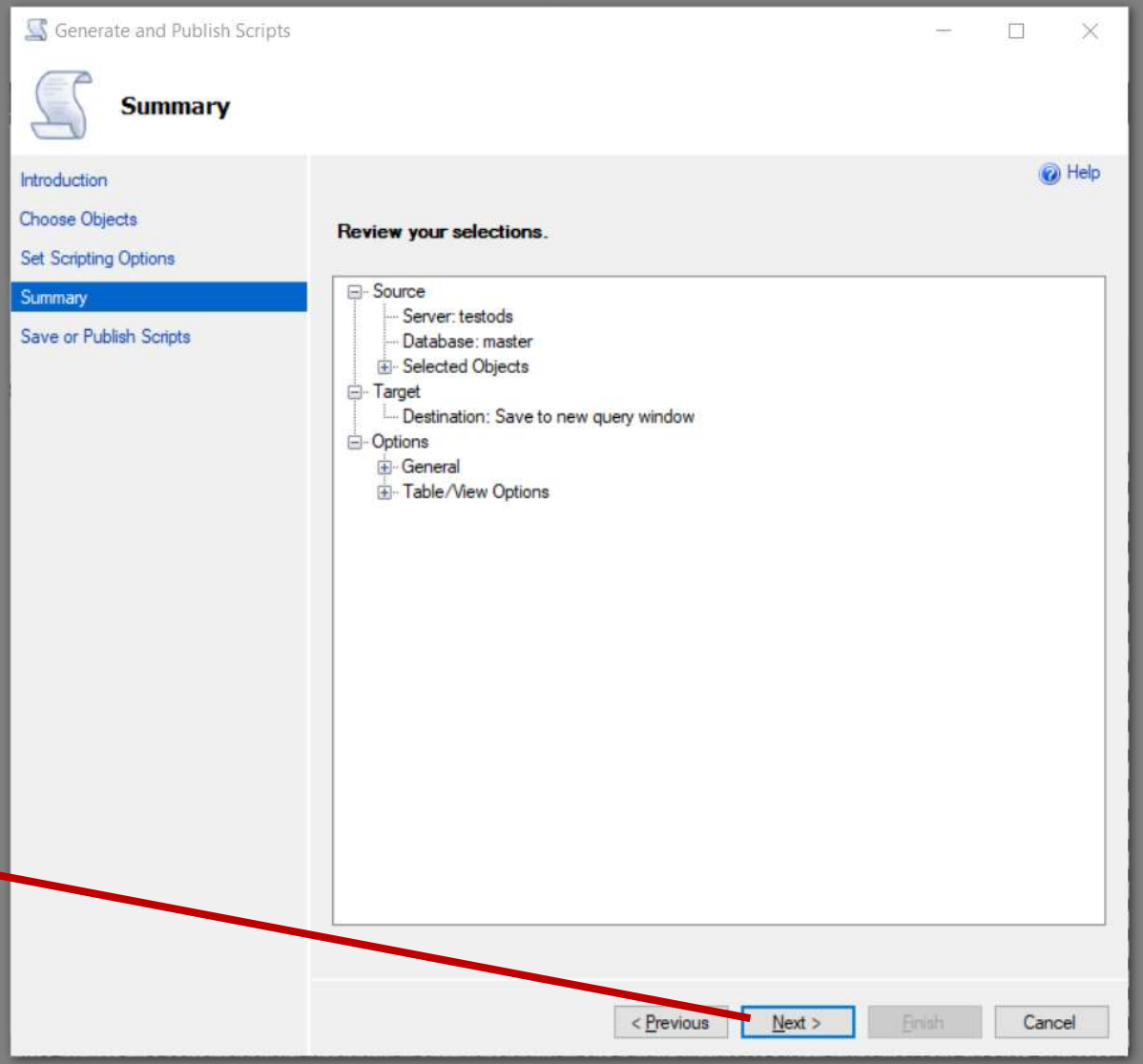
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
   a. Tick “Save to new query window”
   b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

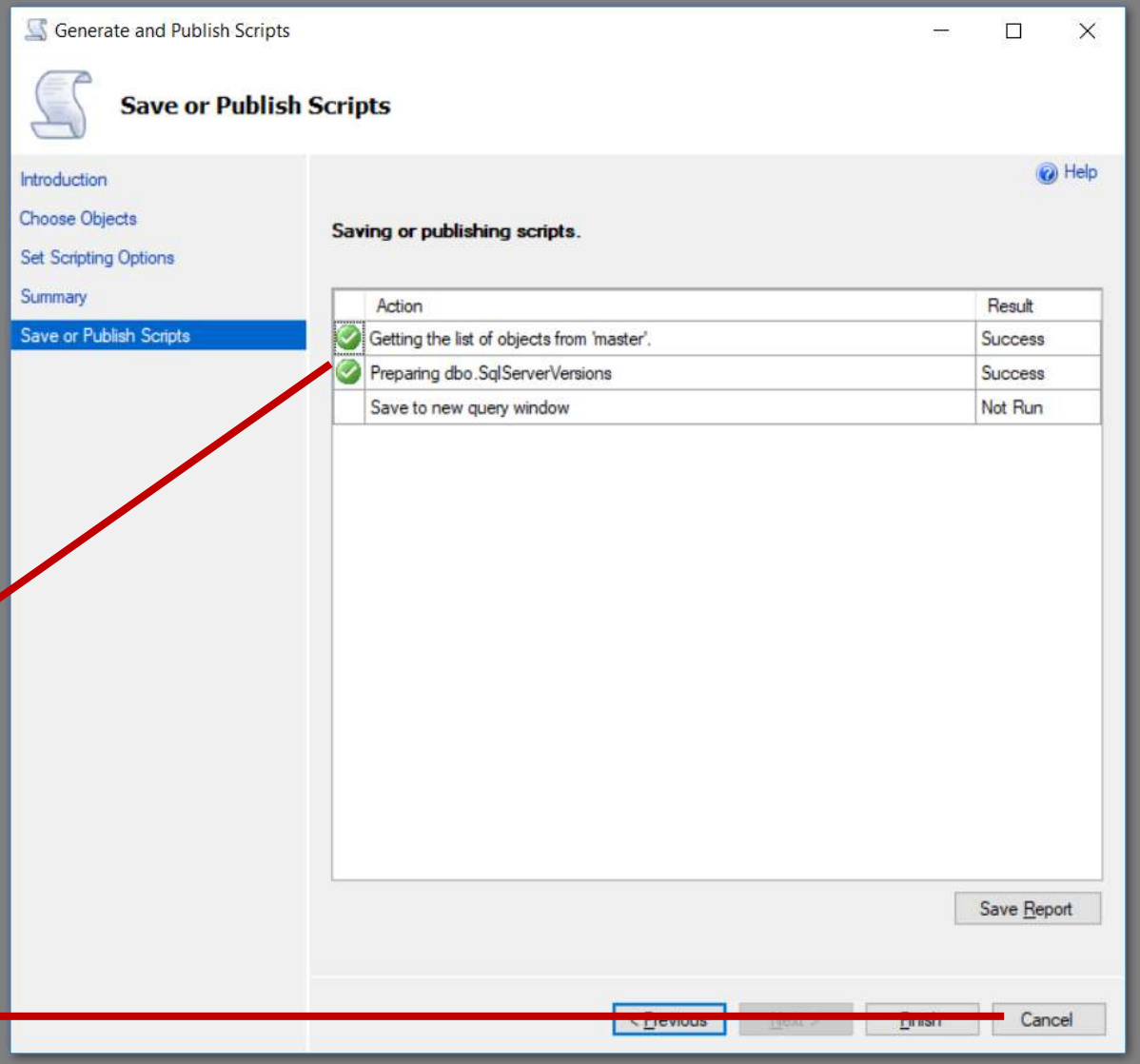
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
   a. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

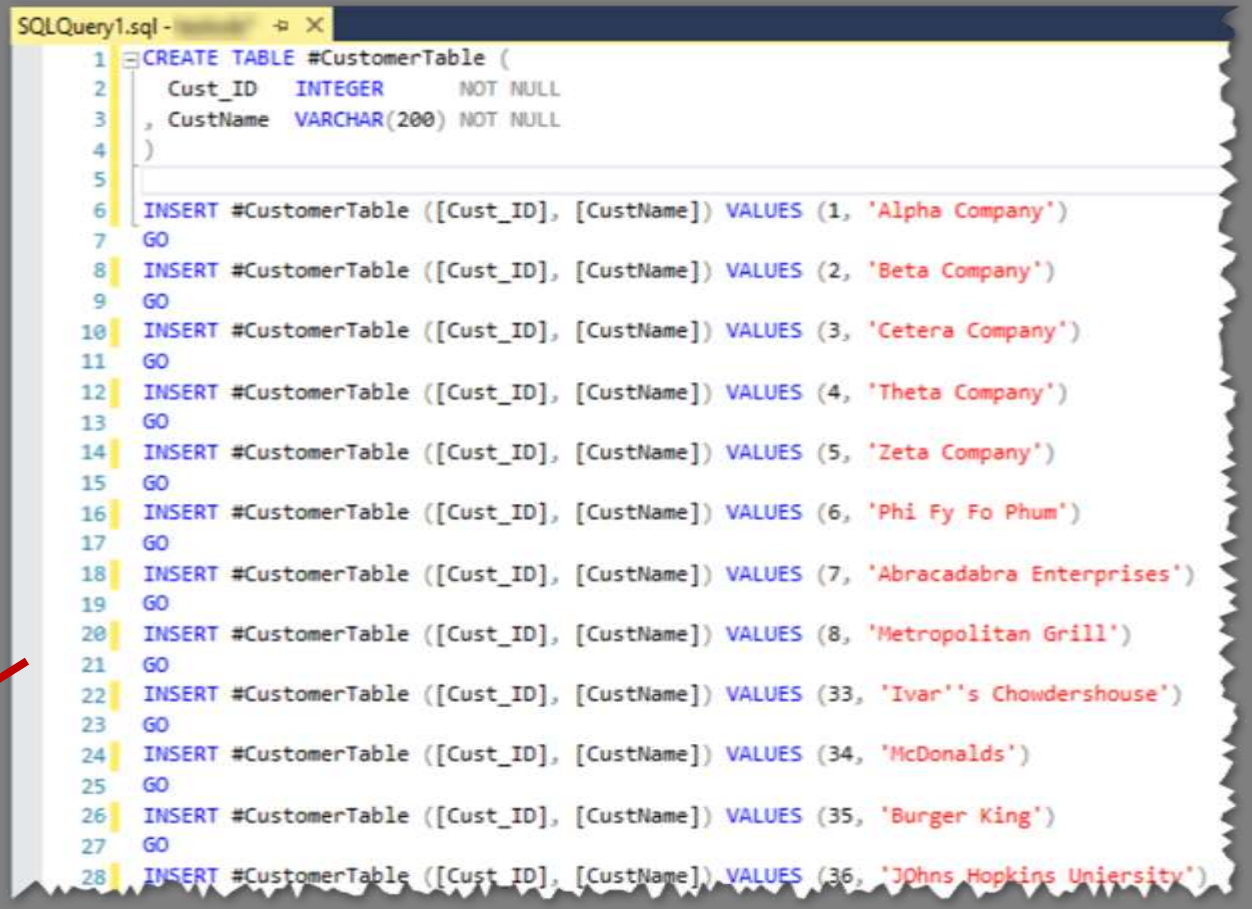
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
7. Job Runs
   a. Notice job starts running
   b. Notice query results behind
   c. Click Cancel



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

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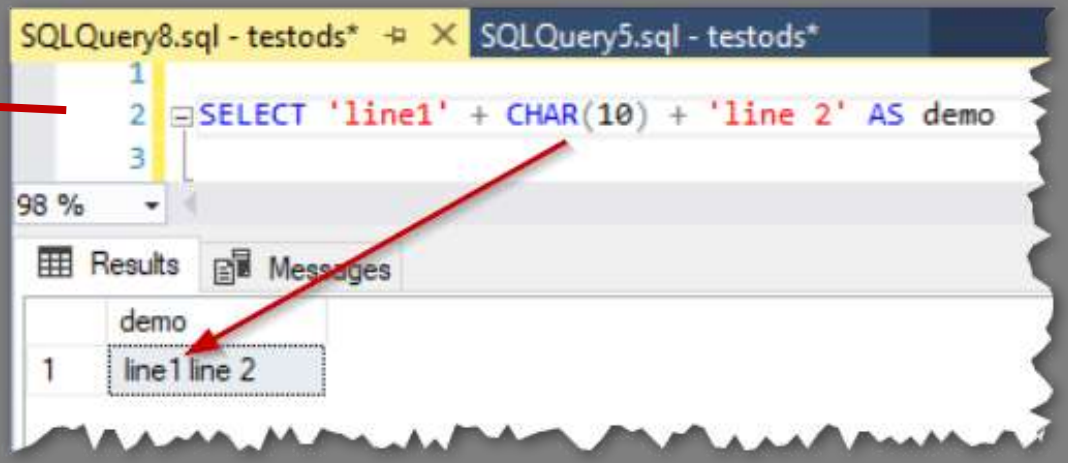
   a. CONCAT() = To concatenate multiple string values together
   b. CHAR(10) = Line Feed



How to Create Script from “A Query”

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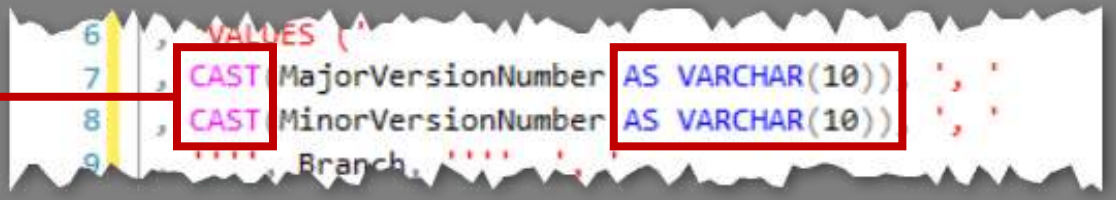
   a. CONCAT() = To concatenate multiple string values together
   b. CHAR(10) = Line Feed
   c. `''''` = a Single Quote Character

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



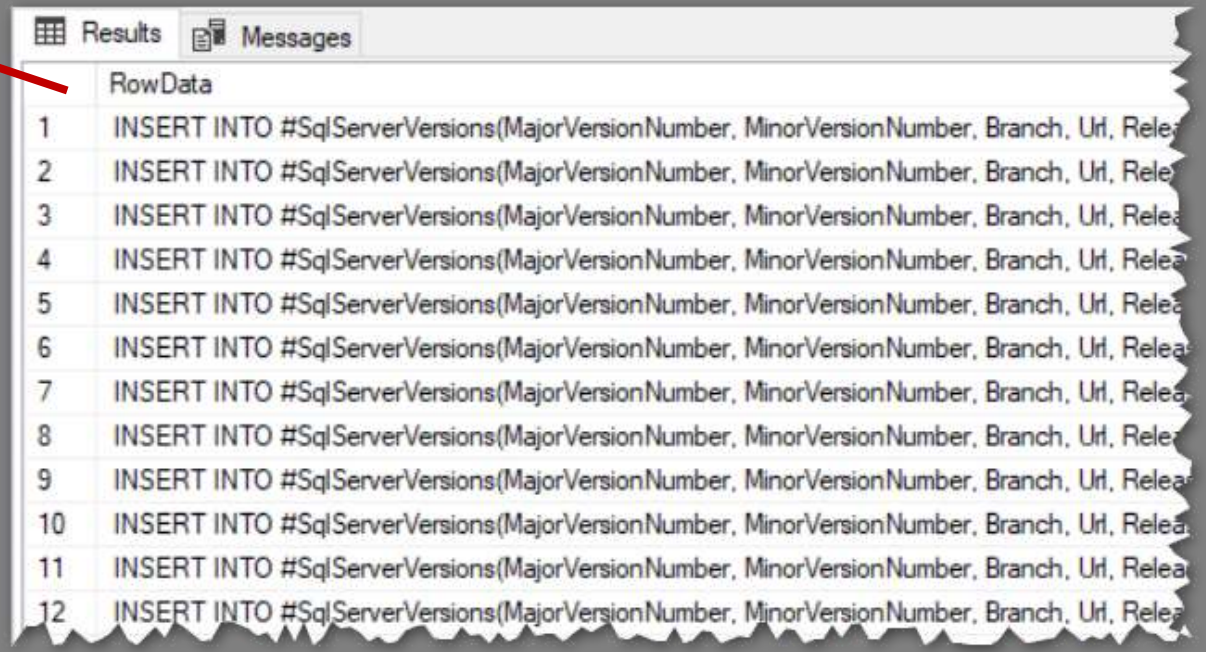
How to Create Script from “A Query”

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, '''', ', '
  , '''', MajorVersionName, '''', ', '
  , '''', 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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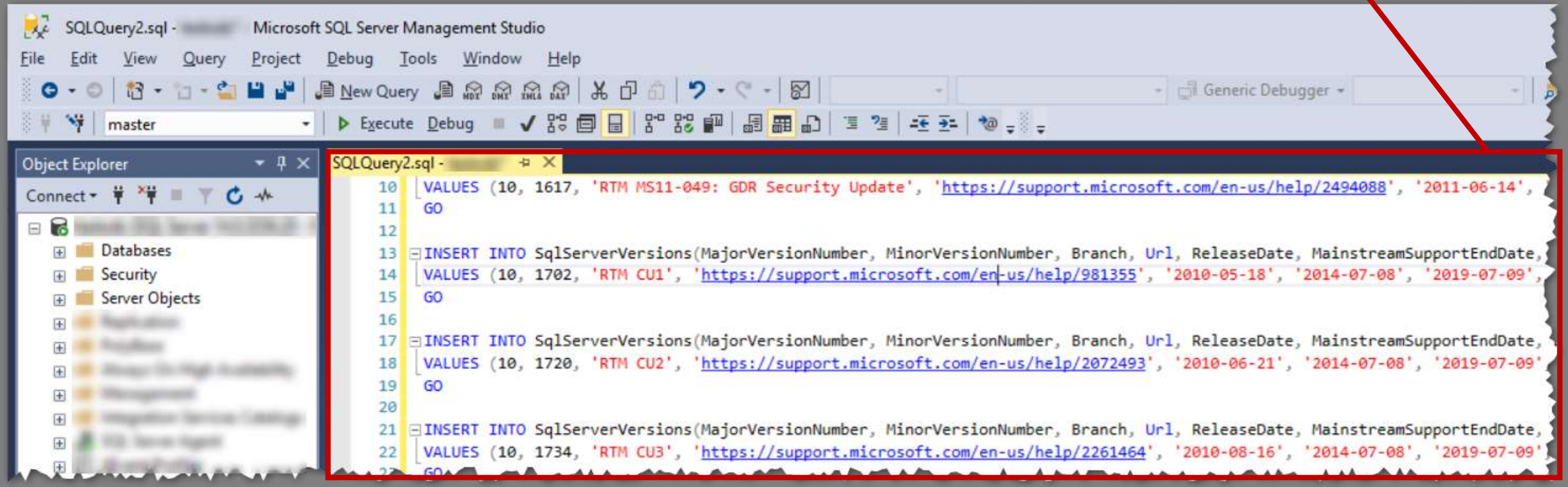
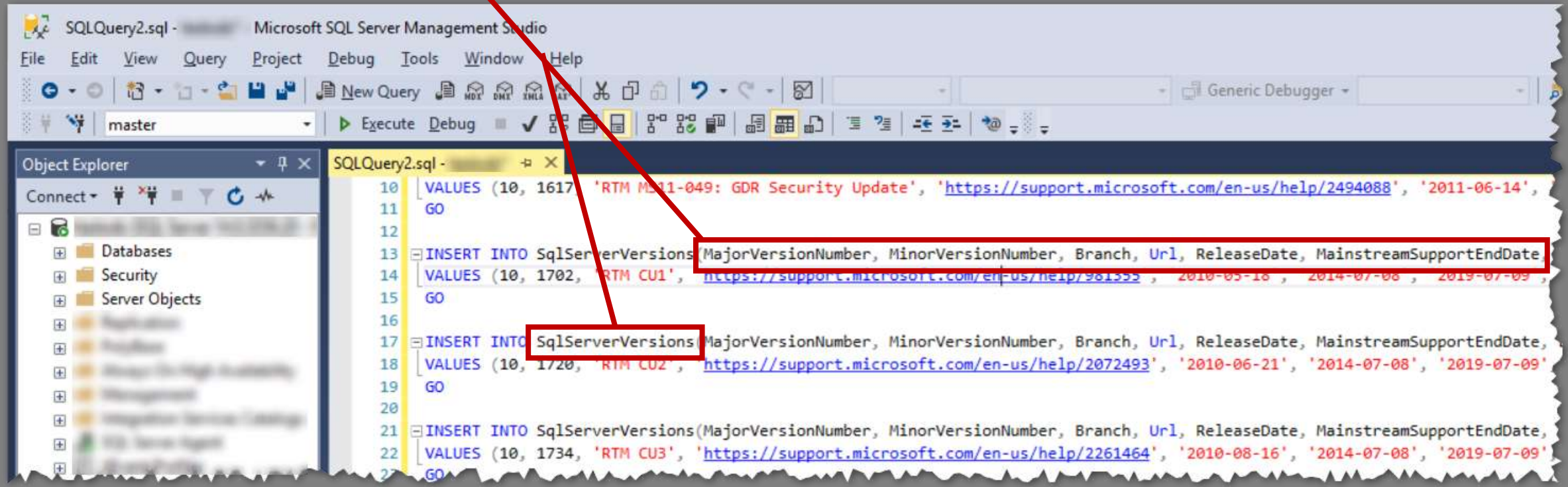
How to Finalize and Use

1. Copy-Paste-Save Results into Script File



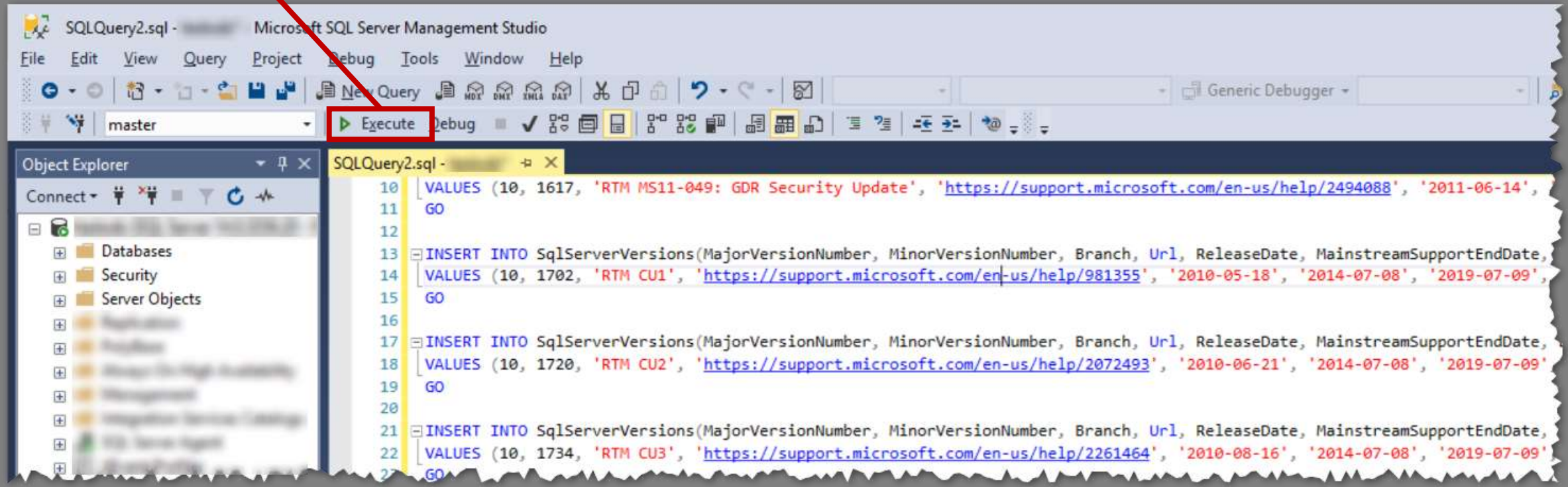
How to Finalize and Use

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



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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