

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

INPUT

Data



PROCESS

Using 2 Different Methods



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OUTPUT

Insert Into Script

```
SQLQuery1.sql - textdoc1
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 Phun')
17 GO
18 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (7, 'Abracadabra Enterprises')
19 GO
20 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (8, 'Metropolis Grill')
21 GO
22 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (33, 'Ivor'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, 'O'Donoghue's')
29 GO
```



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

Quick Trainer Series



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

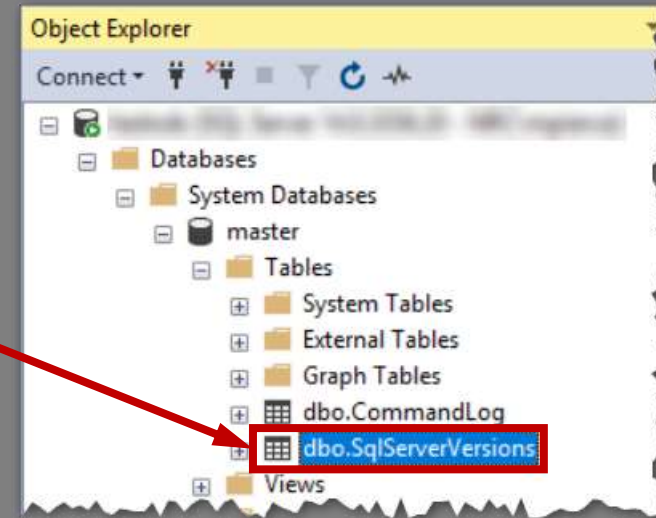
- What is the Input?
- What is the Output?
- How to Use “Generate Scripts” to Create Insert Into’s from “Table”
- How to Use “A Query” to Create Insert Into’s from “Select Data”
- How to Finalize & Use



What is the Input?

Two Input Styles:

1. Complete Table



What is the Input?

Two Input Styles:

1. Complete Table
2. SQL Query

```
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 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



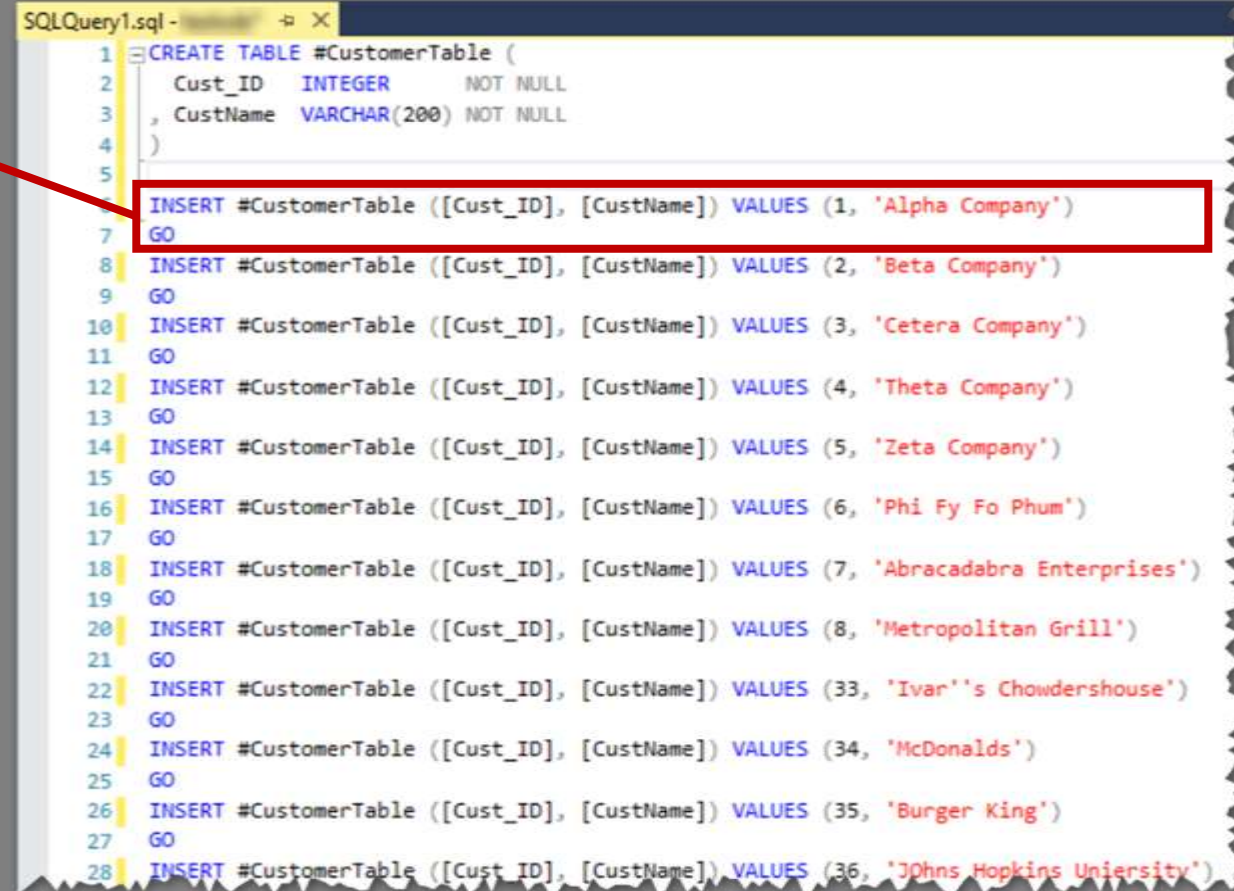
What is the Output?

Output = "INSERT INTO" SQL script

What is the Output?

Output = “INSERT INTO” SQL script

- Every row Input = line of Output

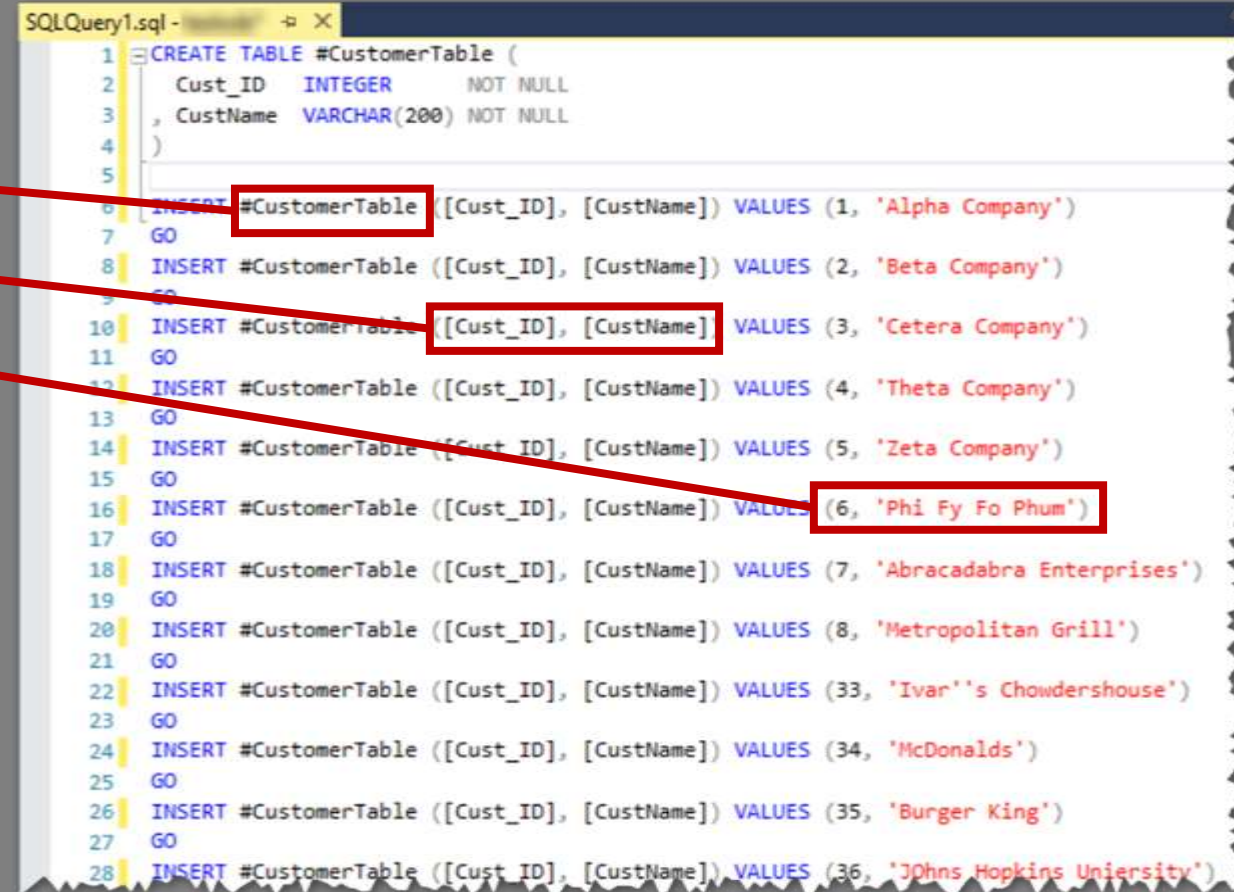


```
SQLQuery1.sql - X
1 CREATE TABLE #CustomerTable (
2     Cust_ID INTEGER NOT NULL
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4 )
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6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
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11 GO
12 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (4, 'Theta Company')
13 GO
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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 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



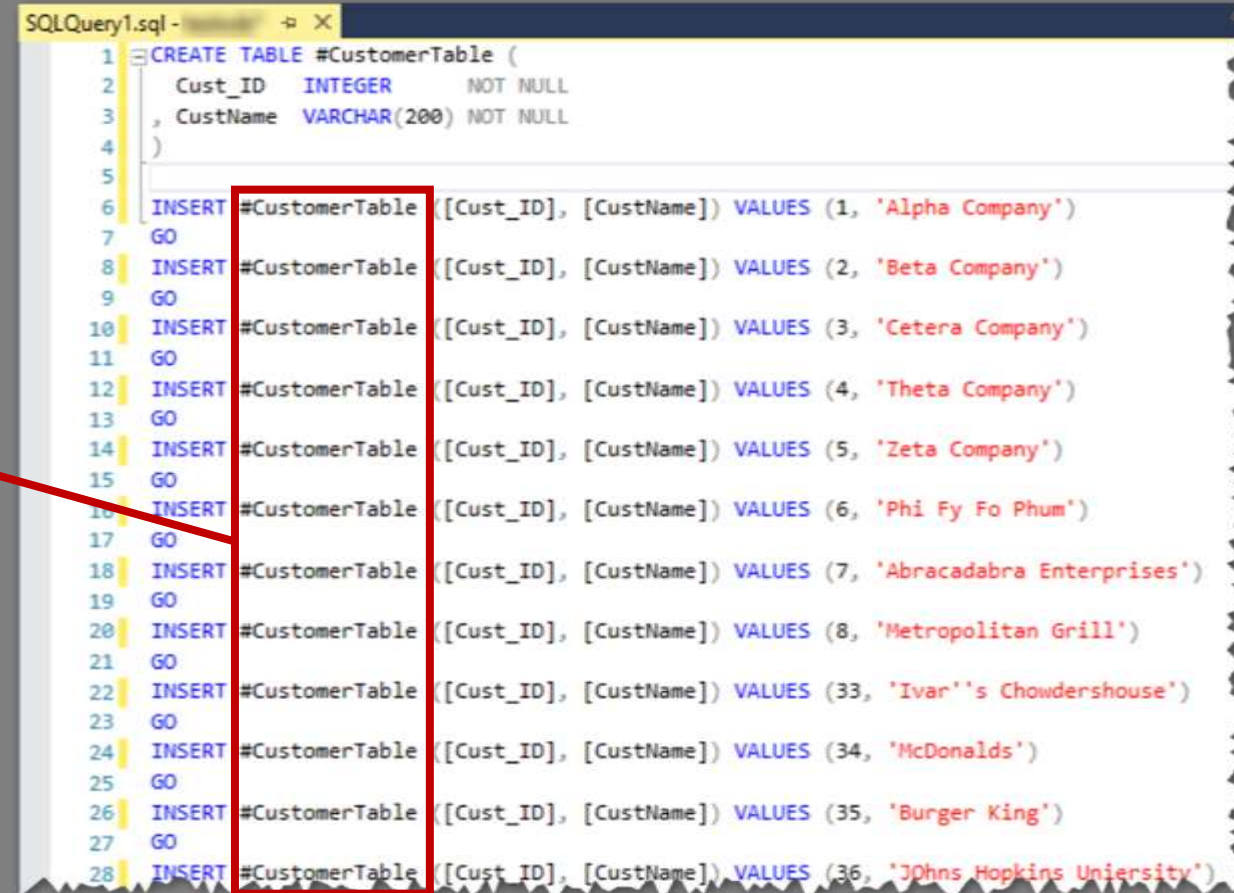
```
SQLQuery1.sql - X
1 CREATE TABLE #CustomerTable (
2   Cust_ID INTEGER NOT NULL
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6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
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27 GO
28 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (36, 'Johns Hopkins University')
```

The screenshot shows an SQL script in a text editor. The script starts with a `CREATE TABLE` statement for `#CustomerTable` with columns `Cust_ID` (INTEGER) and `CustName` (VARCHAR(200)). This is followed by 12 `INSERT` statements, each adding a row to the table. The `INSERT` statements are: `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (2, 'Beta Company')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (3, 'Cetera Company')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (4, 'Theta Company')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (5, 'Zeta Company')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (6, 'Phi Fy Fo Phum')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (7, 'Abracadabra Enterprises')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (8, 'Metropolitan Grill')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (33, 'Ivar''s Chowdershouse')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (34, 'McDonalds')`, `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (35, 'Burger King')`, and `INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (36, 'Johns Hopkins University')`. Red boxes highlight the table name `#CustomerTable` in the first `INSERT` statement, the column list `[Cust_ID], [CustName]` in the third `INSERT` statement, and the value `(6, 'Phi Fy Fo Phum')` in the sixth `INSERT` statement. Red lines connect these highlighted elements to the corresponding items in the list on the left: 'Inserts into a table' points to the table name, 'Calls out columns' points to the column list, and 'Specifies matching values' points to the values in the sixth `INSERT` statement.

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

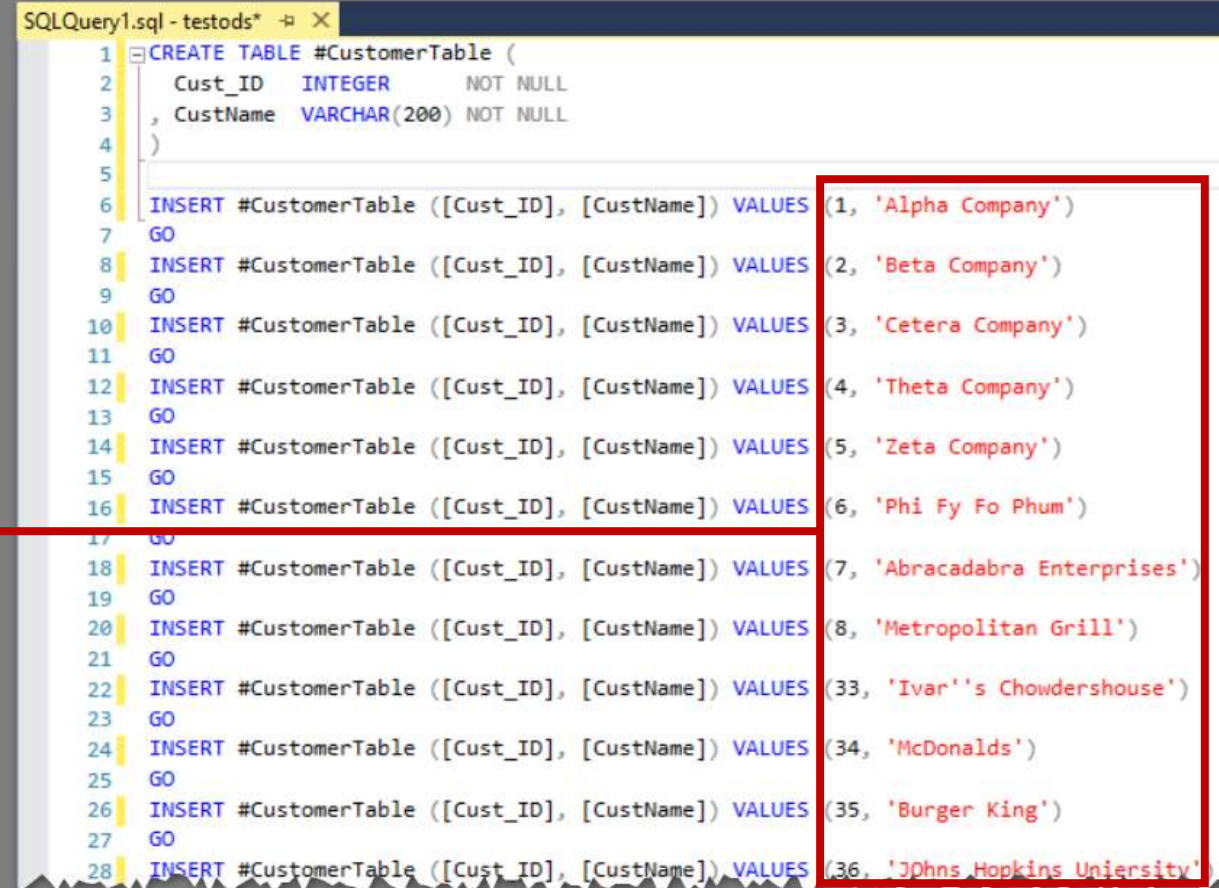


```
SQLQuery1.sql - [X]
1 CREATE TABLE #CustomerTable (
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```

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



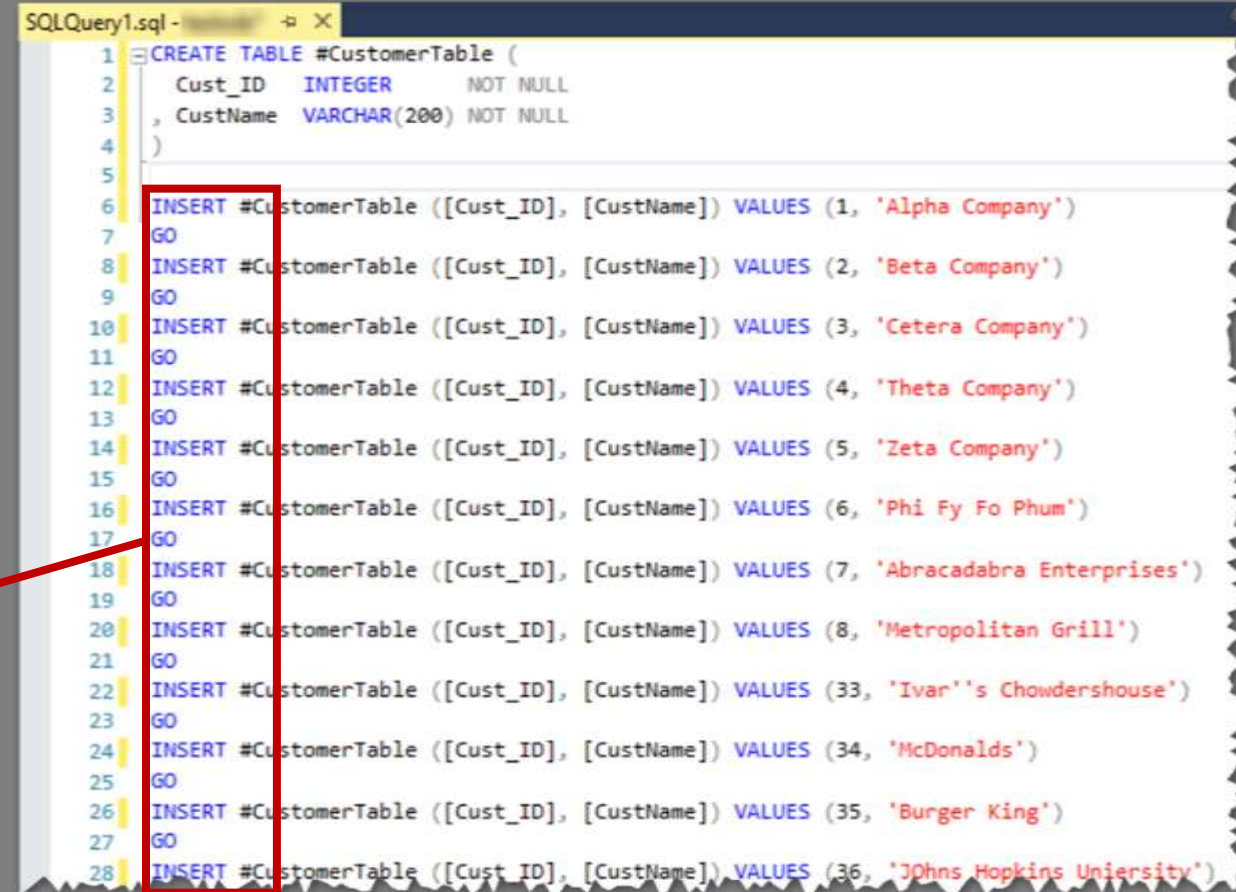
```
SQLQuery1.sql - testods*  - X
1 CREATE TABLE #CustomerTable (
2     Cust_ID  INTEGER      NOT NULL
3     , CustName VARCHAR(200) NOT NULL
4 )
5
6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
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```

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.



```
SQLQuery1.sql - X
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5
6 INSERT #CustomerTable ([Cust_ID], [CustName]) VALUES (1, 'Alpha Company')
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How to Dump Data to an “Insert Into” SQL Script

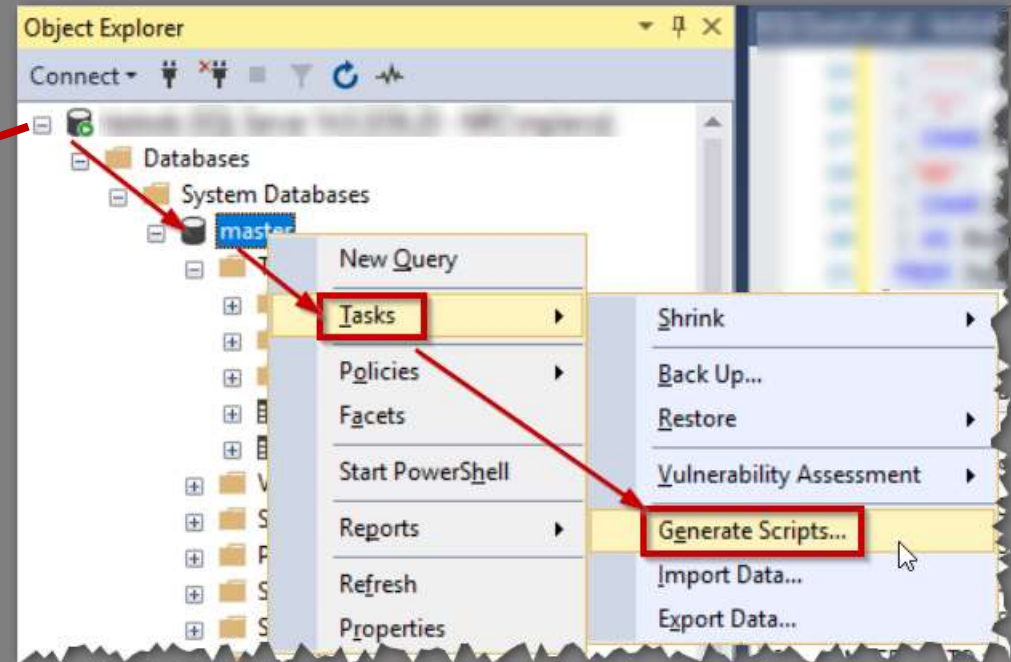
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- What is the Output?
- **How to Use “Generate Scripts” to Create Insert Into’s from “Table”**
- How to Use “A Query” to Create Insert Into’s from “Select Data”
- How to Finalize & Use



How to Create Script from “Generate Scripts”

There are several steps:

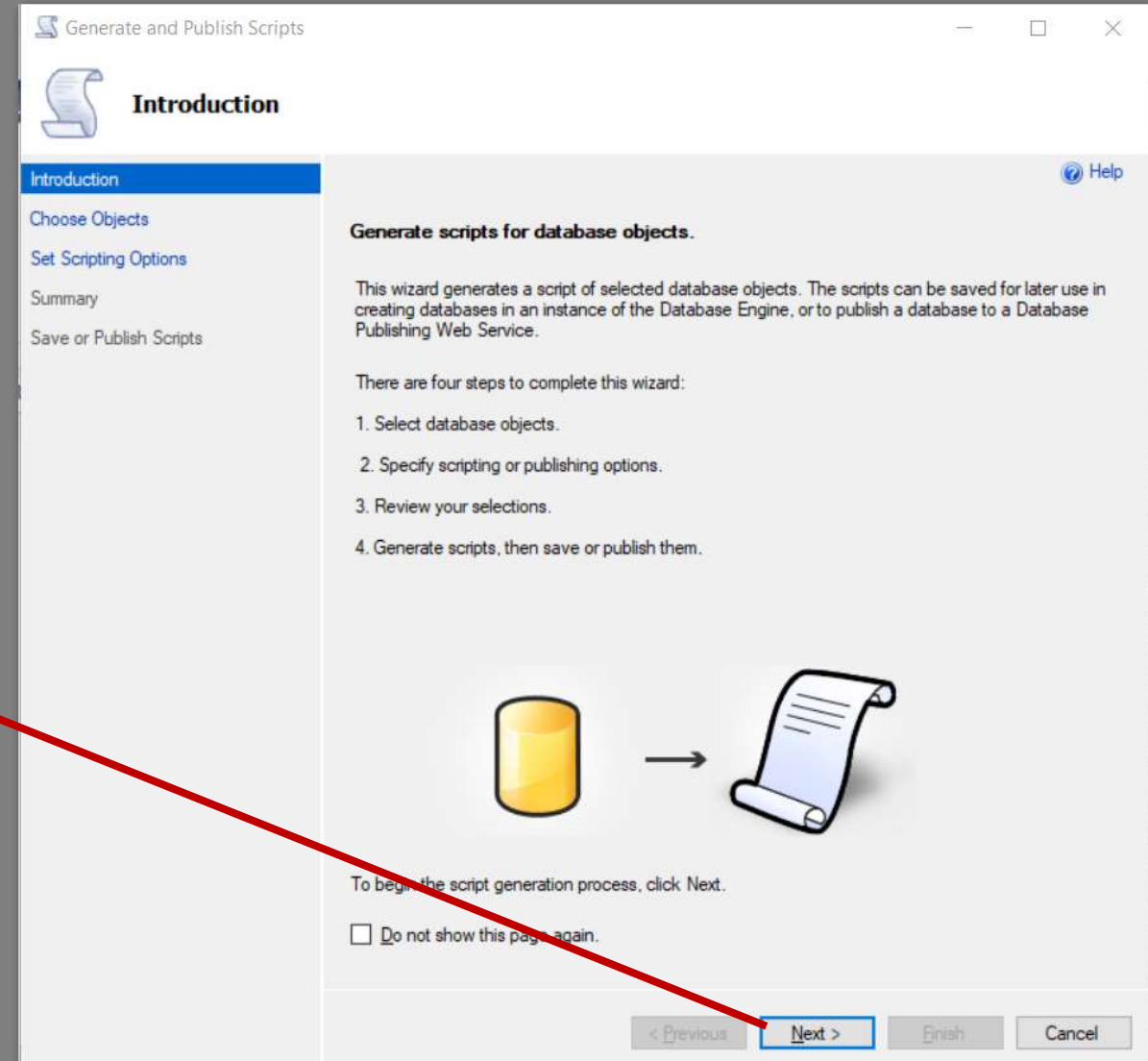
1. Open Script Dialog
 - a. Right-click database
 - b. Select Tasks
 - c. Select Generate Scripts



How to Create Script from “Generate Scripts”

There are several steps:

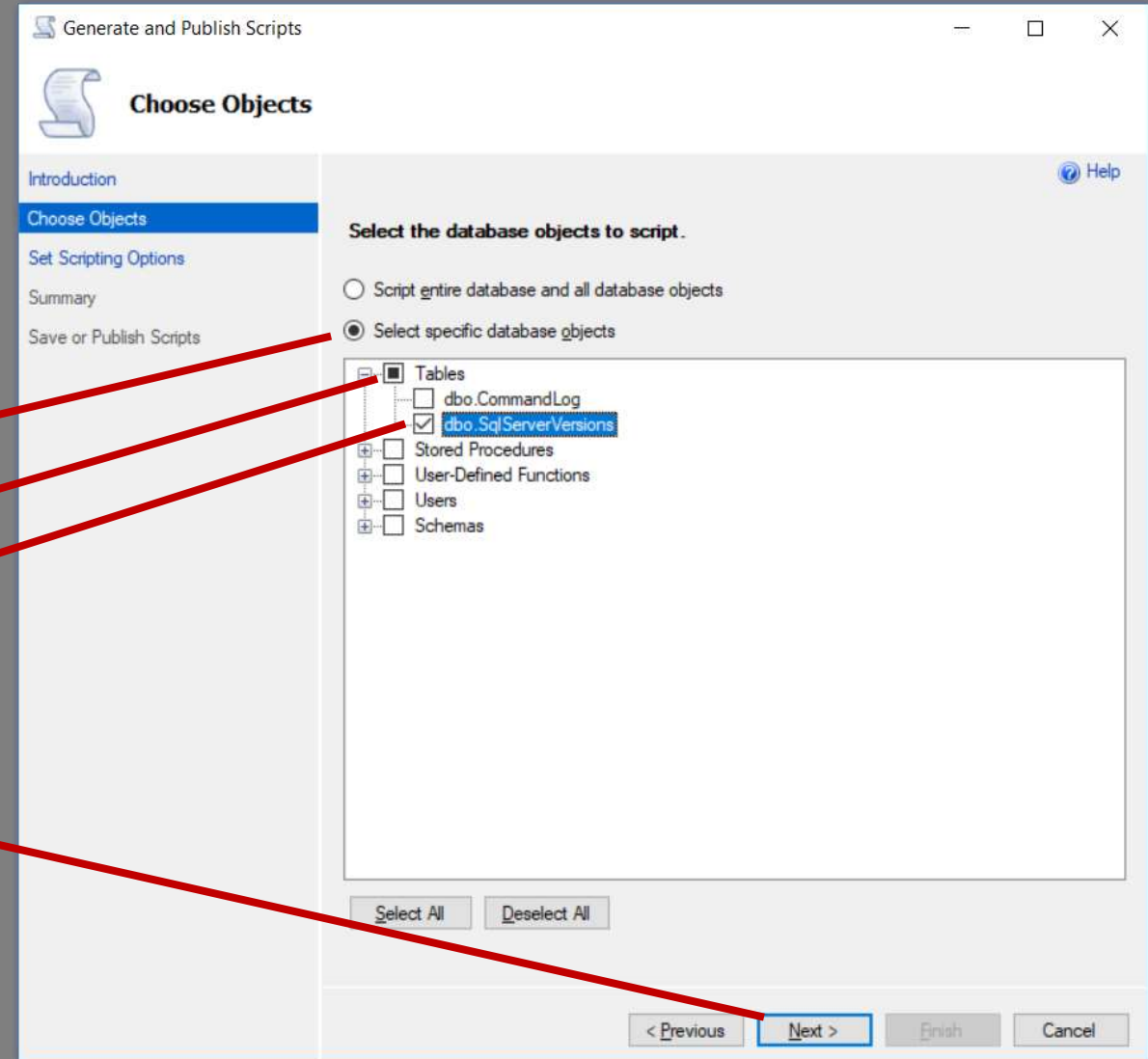
1. Open Script Dialog
2. Skip Introduction Step
 - a. Popup arrives
 - b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

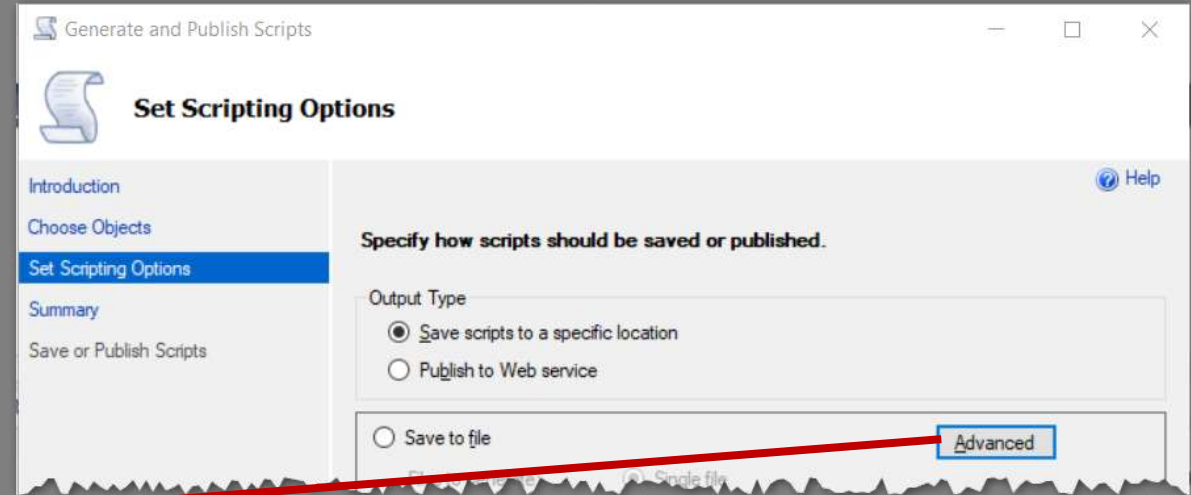
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
 - a. Tick “Select specific database objects”
 - b. Tick “Table”
 - c. Tick the specific table to script out
 - d. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

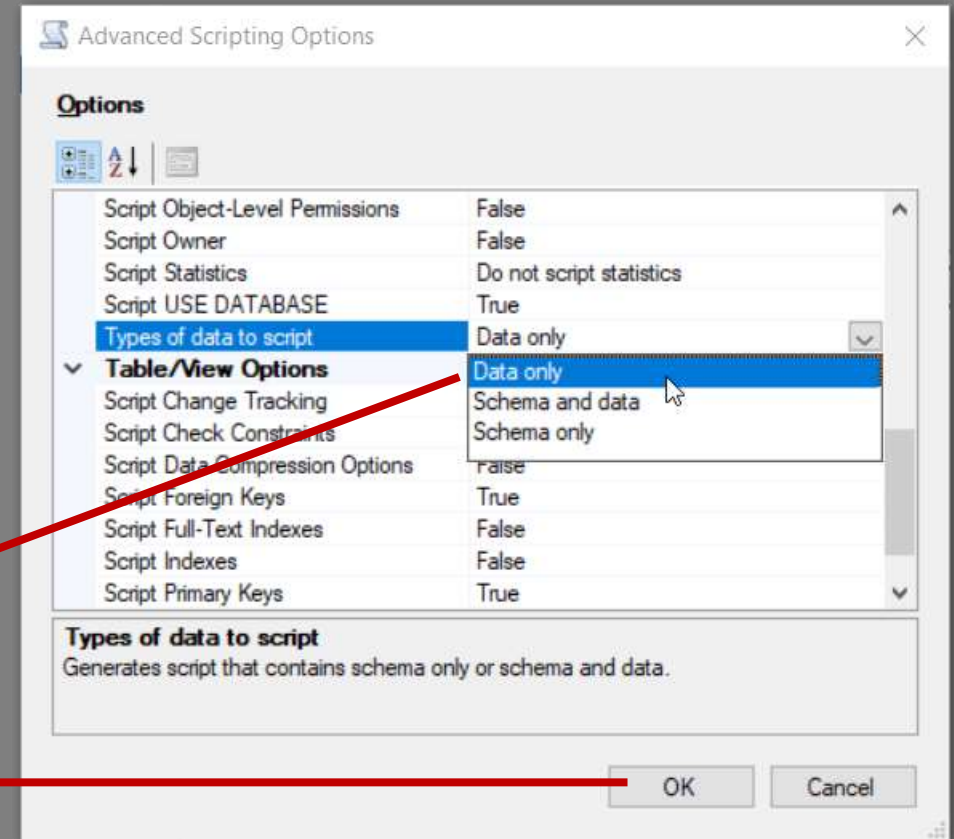
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
 - a. Click “Advanced”



How to Create Script from “Generate Scripts”

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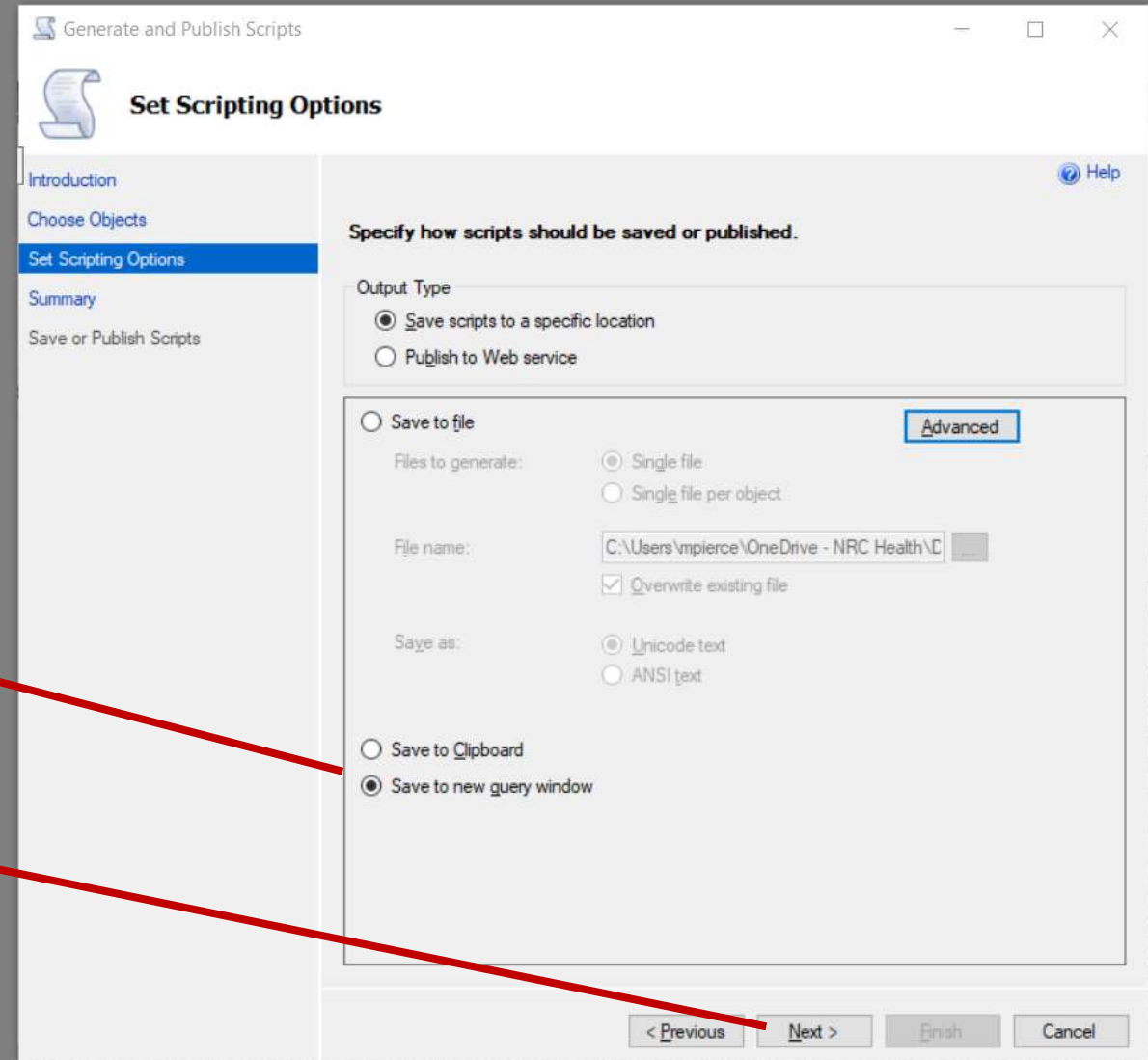
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
 - a. Click “Advanced”
 - b. Select “Data Only” at property Types of data to script
 - c. Click OK button to return



How to Create Script from “Generate Scripts”

There are several steps:

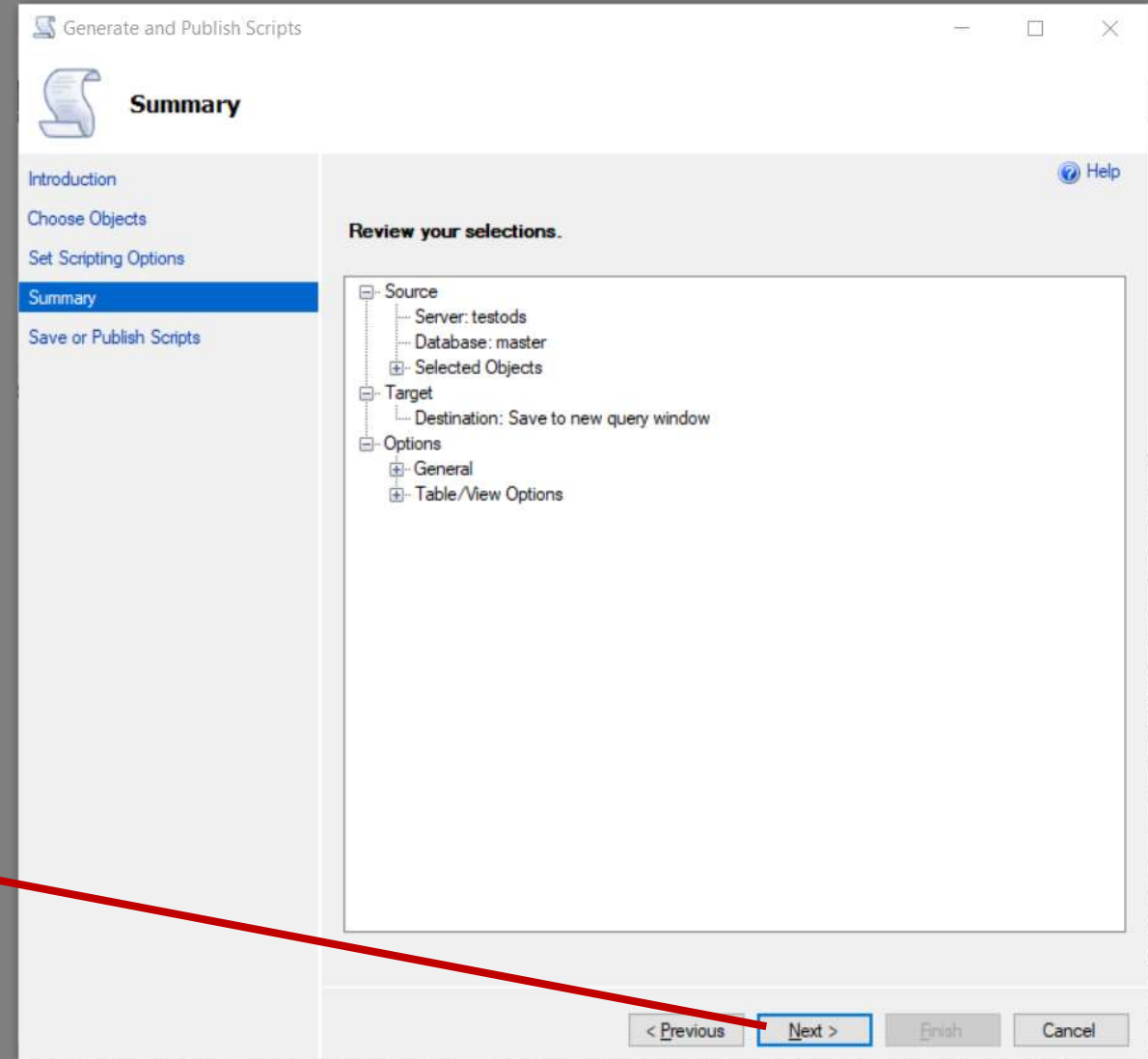
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
 - a. Tick “Save to new query window”
 - b. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

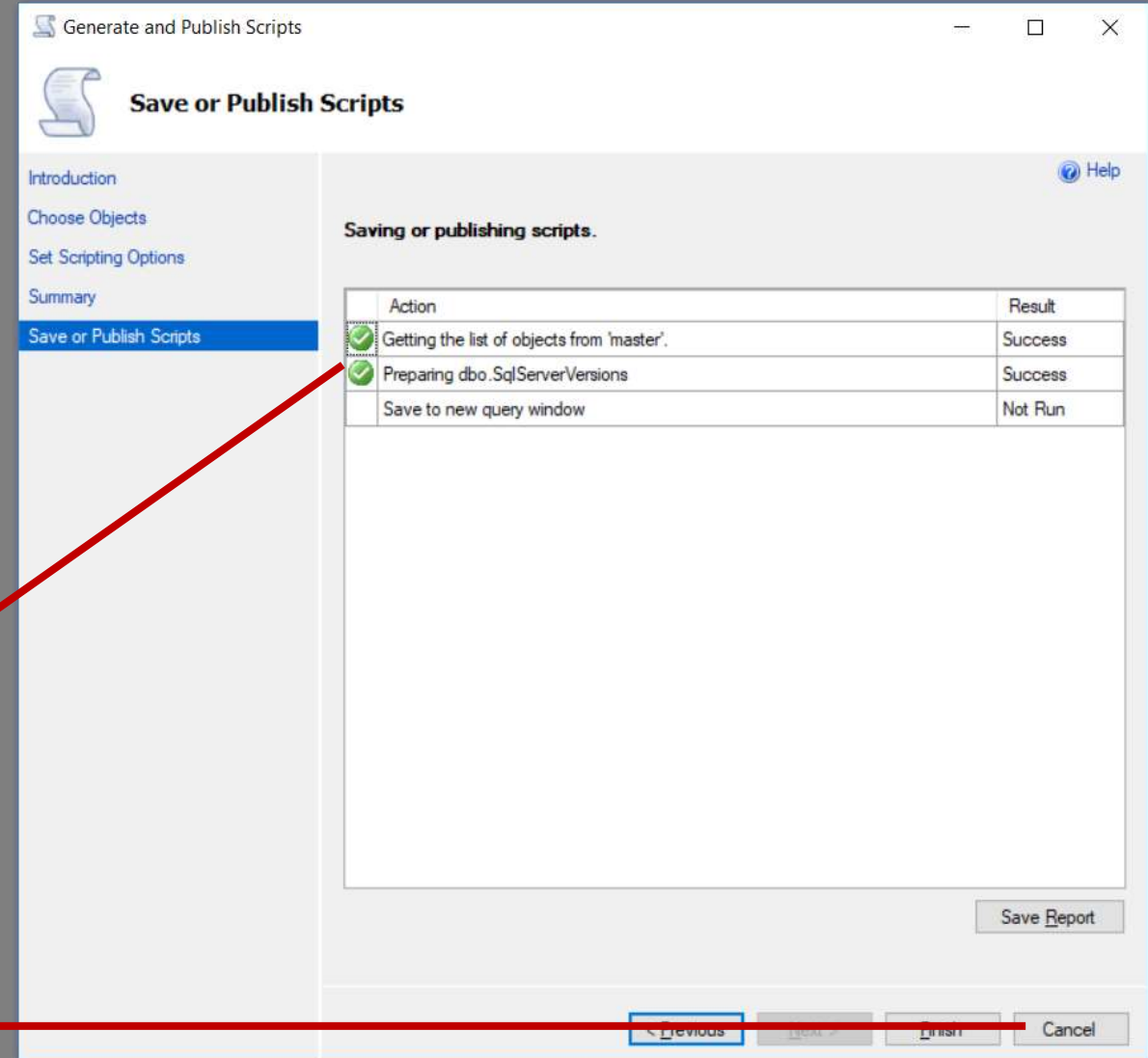
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
 - a. Click Next



How to Create Script from “Generate Scripts”

There are several steps:

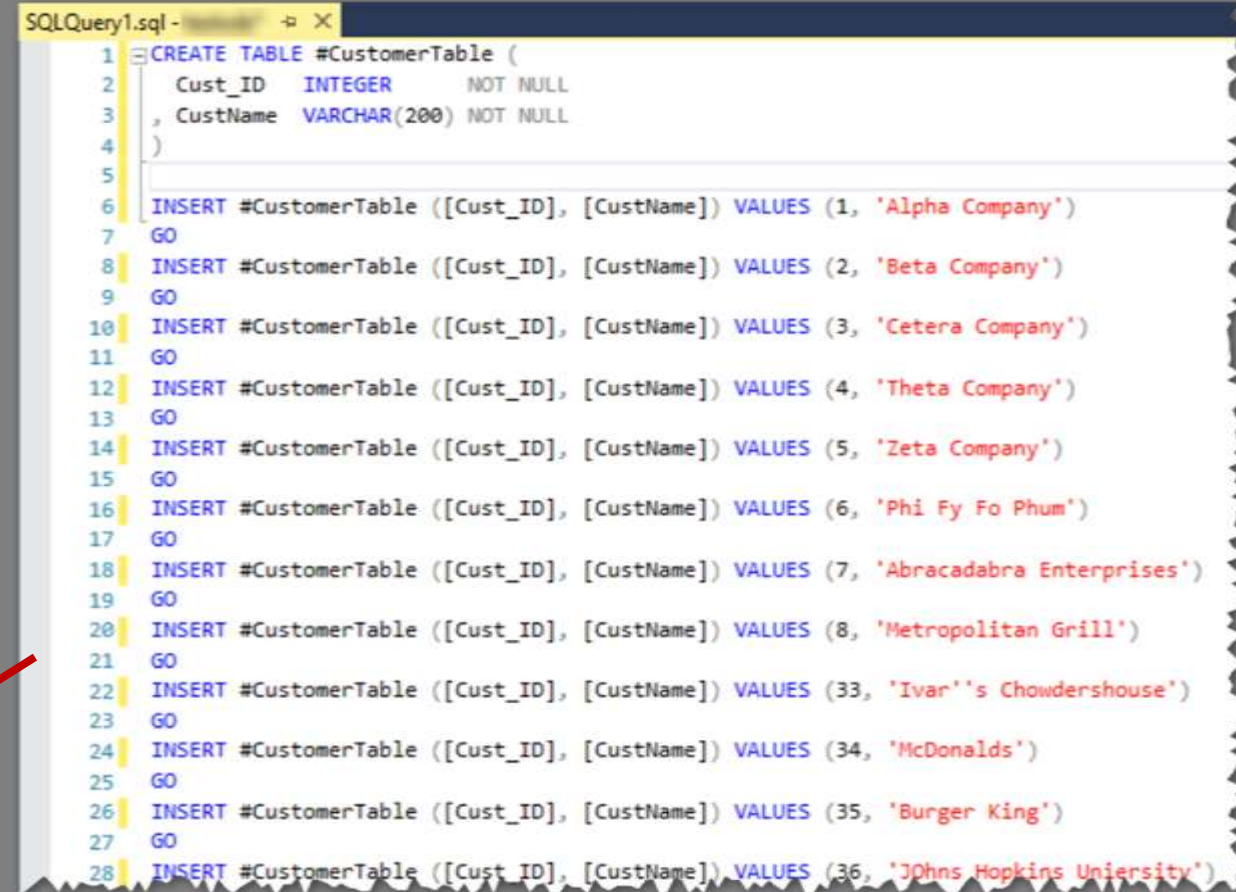
1. Open Script Dialog
2. Skip Introduction Step
3. Choose Object
4. Set Scripting Options Pt 1
5. Set Scripting Options Pt 2
6. Summary
7. Job Runs
 - a. Notice job starts running
 - b. Notice query results behind
 - c. Click Cancel



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...



```
SQLQuery1.sql - 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')
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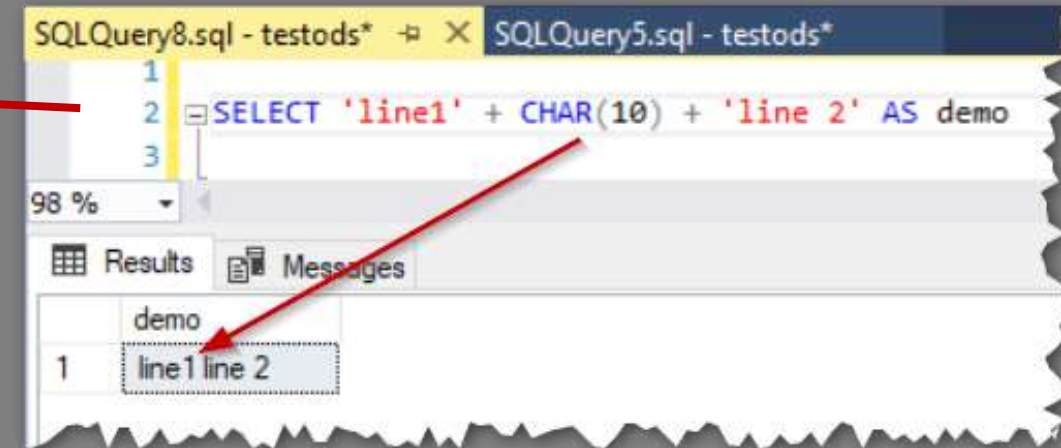
How to Create Script from “A Query”

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



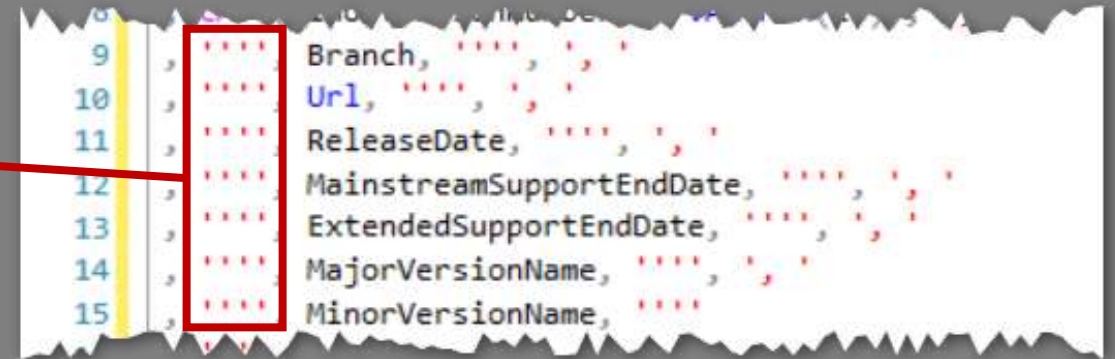
How to Create Script from “A Query”

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



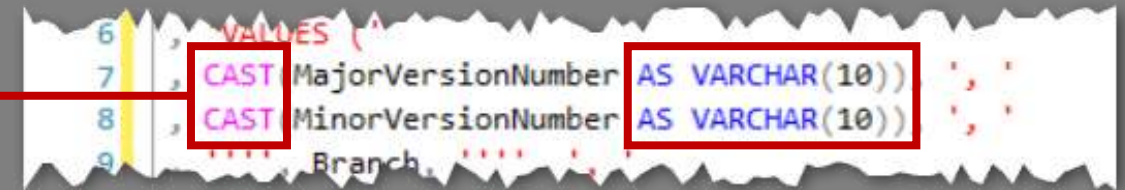
How to Create Script from “A Query”

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 varchars to build strings



```
VALUES ('', CAST(MajorVersionNumber AS VARCHAR(10)), CAST(MinorVersionNumber AS VARCHAR(10)), Branch, ...)
```

How to Create Script from “A Query”

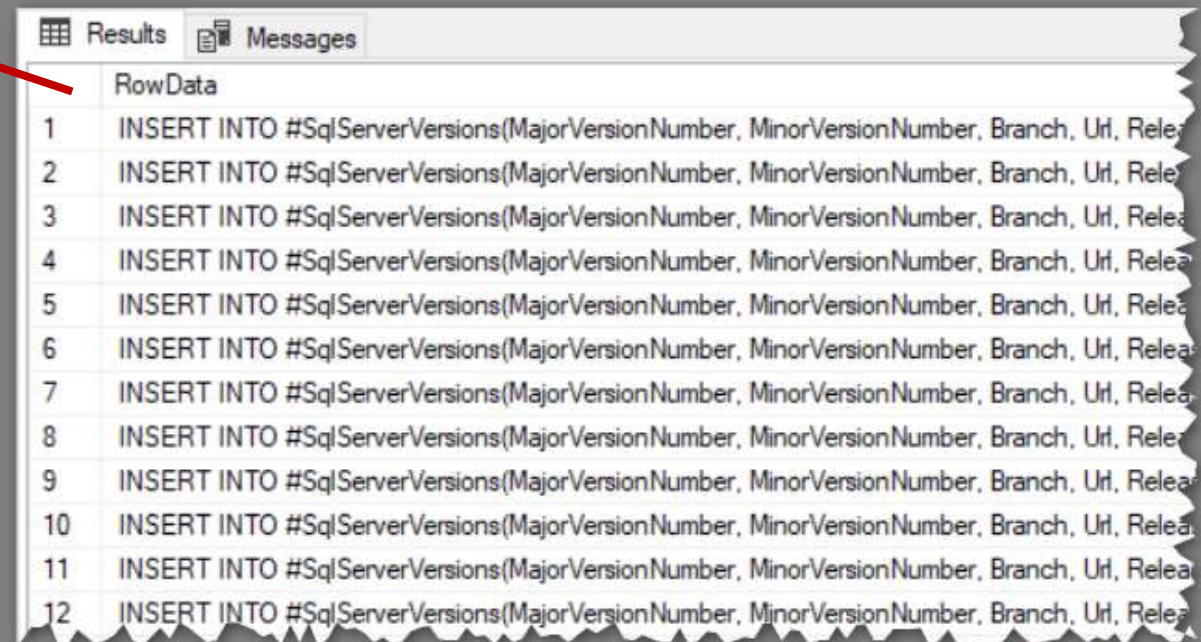
1. Use SQL Functions...
2. ...To Build SQL Command



```
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. A red arrow points from the third step of the list to the 'Results' tab. The table displays 12 rows of generated SQL commands, each starting with 'INSERT INTO #SqlServerVersions(...)'. The table has two columns: 'RowData' and the generated SQL command.

	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
```

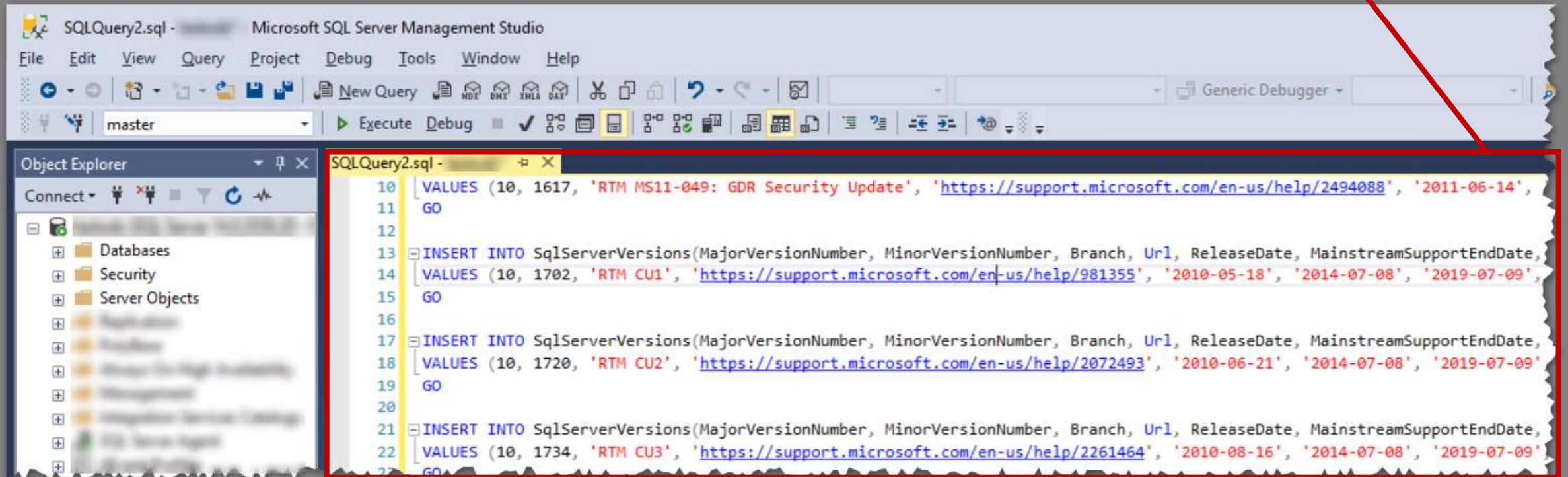
How to Dump Data to an “Insert Into” SQL Script

- 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**



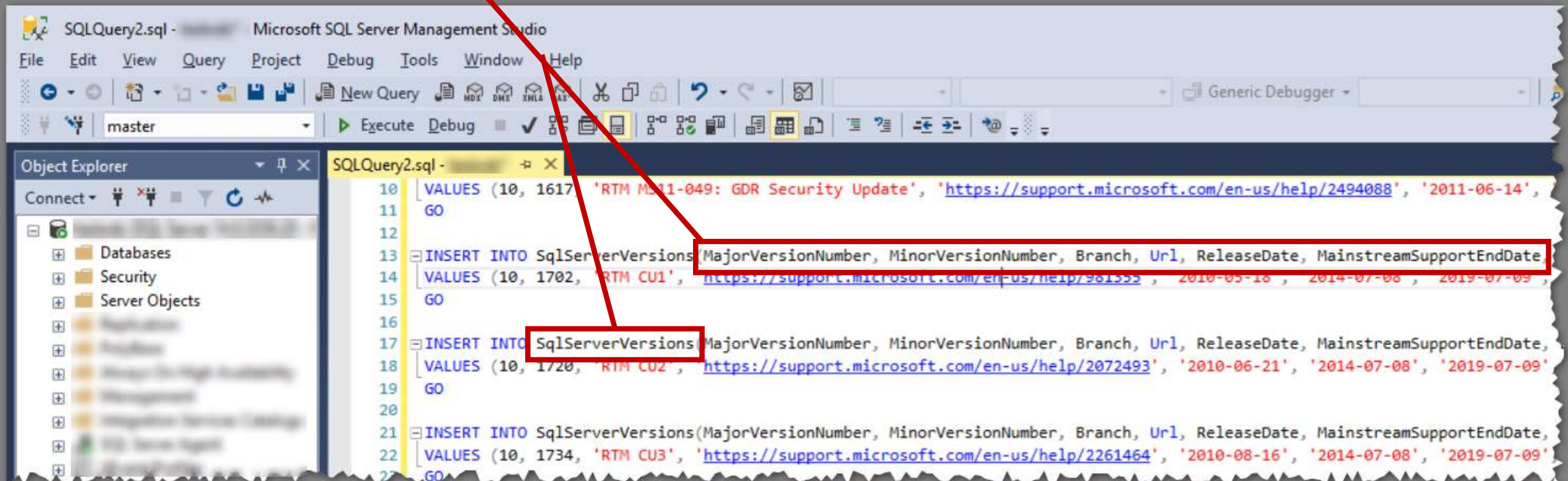
How to Finalize and Use

1. Copy-Paste-Save Results into Script File



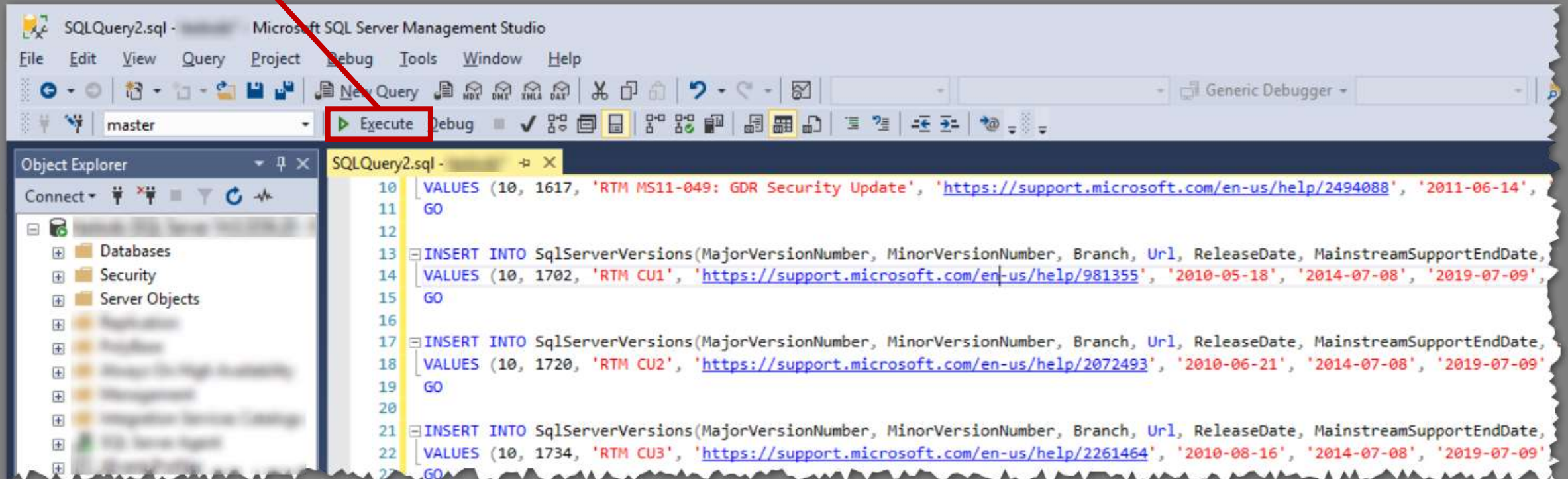
How to Finalize and Use

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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