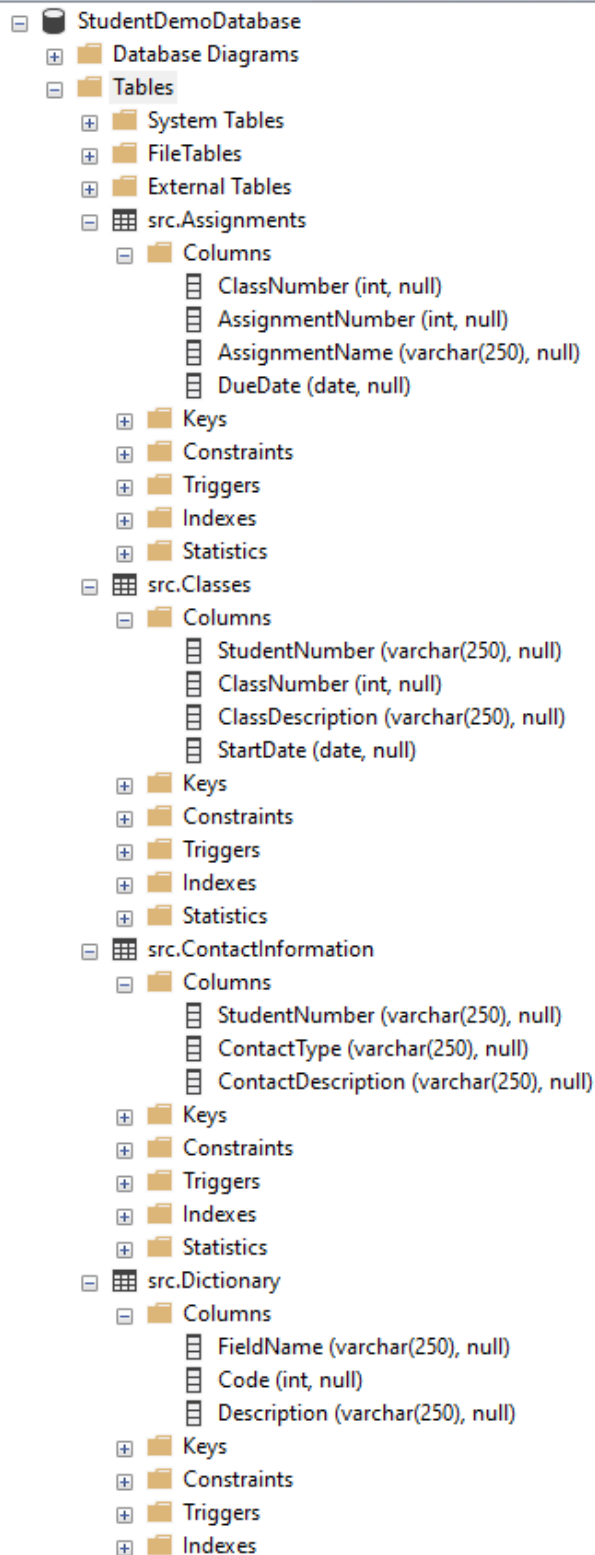
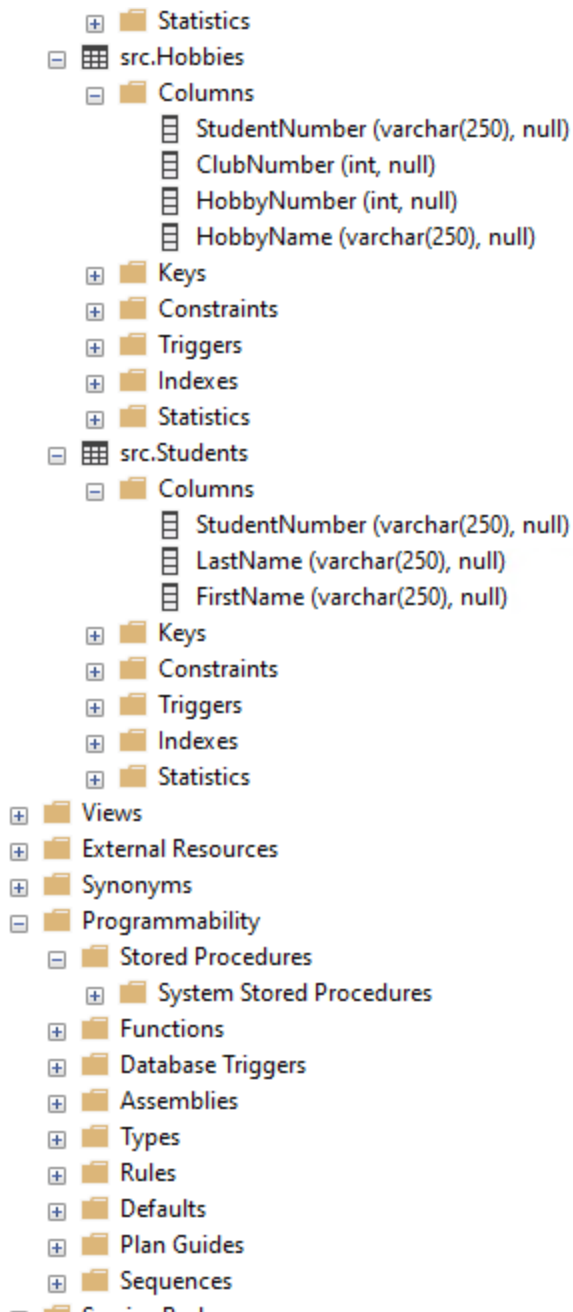


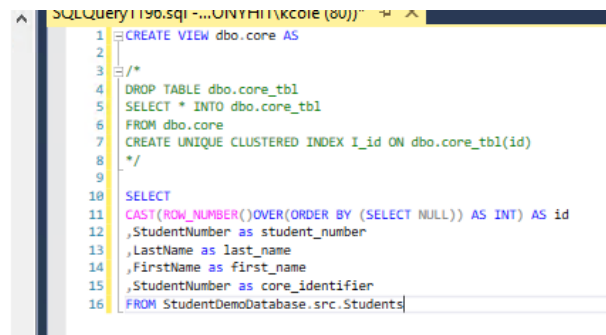
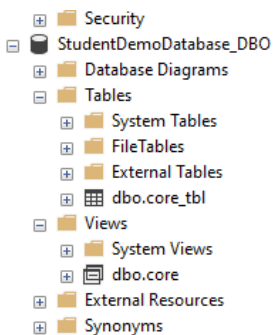
# view\_builder\_demo Screenshots

## Views and tables in StudentDemoDatabase before tool runs





### Views and tables in StudentDemoDatabase\_DBO before tool runs



Results		Messages			
	id	student_number	last_name	first_name	core_identifier
1	1	12345	Mouse	Mickey	12345
2	2	23456	Mouse	Minnie	23456
3	3	34567	Mallard	Daffy	34567

## Arguments in main.py

```
def main():
    #before running this tool, build dbo.core_tbl
    source_server = ' '
    source_db_database = 'StudentDemoDatabase'
    dbo_database = source_db_database + '_DBO'
    source_table_schema = 'src'
    source_core_id_column = 'StudentNumber'
    ignore_columns = ['StudentNumber'] #columns you want commented out in every view where they occur
```

## Mapping window (using PySimpleGUI)

Map Source Tables to DBO Views

☒ All

Empty?	Run?	Source Table Name	DBO View Name
	<input checked="" type="checkbox"/>	Assignments	assignments
	<input checked="" type="checkbox"/>	Classes	classes
	<input checked="" type="checkbox"/>	ContactInformation	contact_information
	<input checked="" type="checkbox"/>	Dictionary	dictionary
(!)	<input type="checkbox"/>	Hobbies	hobbies
	<input checked="" type="checkbox"/>	Students	students

OK Cancel

## Sample output while tool runs

```
Ran query from C:\Users\kcole\Desktop\python_projects\scripts\view_builder_20240529\sql_templates\sp_ColumnBuilderNew.sql

[42522] Invalid column name 'StudentNumber'.
SQL Insert Failed for assignments

Created view classes

Created view contact_information

[42522] Invalid column name 'StudentNumber'.
SQL Insert Failed for dictionary














































[42502] Invalid object name 'dbo.assignments'.
***dbo table build FAILURE***: assignments_tbl

dbo table built: classes_tbl

dbo table built: contact_information_tbl

[42502] Invalid object name 'dbo.dictionary'.
***dbo table build FAILURE***: dictionary_tbl
```

## Views and tables after tool runs

- [-]  StudentDemoDatabase
  - [+]  Database Diagrams
  - [-]  Tables
    - [+]  System Tables
    - [+]  FileTables
    - [+]  External Tables
    - [+]  src.Assignments
    - [+]  src.Classes
    - [+]  src.ContactInformation
    - [+]  src.Dictionary
    - [+]  src.Hobbies
    - [+]  src.Students
  - [+]  Views
  - [+]  External Resources
  - [+]  Synonyms
  - [-]  Programmability
    - [-]  Stored Procedures
      - [+]  System Stored Procedures
      - [+]  src.sp\_ColumnBuilderNew
    - [+]  Functions
    - [+]  Database Triggers
    - [+]  Assemblies
    - [+]  Types
    - [+]  Rules
    - [+]  Defaults
    - [+]  Plan Guides
    - [+]  Sequences
  - [+]  Service Broker
  - [+]  Storage
  - [+]  Security
- [-]  StudentDemoDatabase\_DBO
  - [+]  Database Diagrams
  - [-]  Tables
    - [+]  System Tables
    - [+]  FileTables
    - [+]  External Tables
    - [+]  dbo.classes\_tbl
    - [+]  dbo.contact\_information\_tbl
    - [+]  dbo.core\_tbl
  - [-]  Views
    - [+]  System Views
    - [+]  dbo.classes
    - [+]  dbo.contact\_information
    - [+]  dbo.core
  - [+]  External Resources

## View created

```
1  USE [StudentDemoDatabase_DBO]
2  GO
3
4  /***** Object: View [dbo].[contact_information]    Script Date: 5/30/2024 7:52:45 AM *****/
5  SET ANSI_NULLS ON
6  GO
7
8  SET QUOTED_IDENTIFIER ON
9  GO
10
11 ALTER VIEW [dbo].[contact_information] AS
12
13 /*
14 DROP TABLE [dbo].[contact_information_tbl]
15 SELECT * INTO [dbo].[contact_information_tbl]
16 FROM [dbo].[contact_information]
17 CREATE UNIQUE CLUSTERED INDEX I_id ON [dbo].[contact_information_tbl](id)
18 */
19 */
20
21 SELECT
22
23     src.[ContactType] as [contact_type]
24     , src.[ContactDescription] as [contact_description]
25
26     --, src.[StudentNumber] as [student_number]
27
28
29 --new ids
30 , CAST(ROW_NUMBER()OVER(ORDER BY (SELECT NULL)) AS INT) as [id]
31 , CAST(dbo_core.id AS INT) as [core_id]
32
33 FROM [StudentDemoDatabase].[src].[ContactInformation] src --count:
34 INNER JOIN dbo_core_tbl dbo_core
35     ON [src].[StudentNumber] = dbo_core.core_identifier --count:
36
37
38
39 GO
40
41
42
```

## Table created

```
1 SELECT TOP (1000) [contact_type]
2     , [contact_description]
3     , [id]
4     , [core_id]
5 FROM [StudentDemoDatabase_DBO].[dbo].[contact_information_tbl]
6
```

74 %

Results Messages

	contact_type	contact_description	id	core_id
1	Home Phone	111-222-3333	1	1
2	Email	mmouse1@disney.com	2	1
3	Email	mouse2@disney.com	3	2
4	Home Address	123 Happy Lane, Disney, FL 34543	4	2

Sample output of sp\_ColumnBuilderNew.sql when run manually

USE StudentBendDatabase

EXEC src.sp\_ColumnBuilderNew N'src', N'Assignments';

74 %

Results

Messages

sql_statement	contains_data	COLUMN_NAME
1 .src.[ClassNumber]	SELECT COUNT (*) FROM (SELECT TOP 1 * FROM [src].[Assignments] WHERE NULLIF([ClassNumber], '') IS NOT NULL AND [ClassNumber] <> '0') subq	ClassNumber
2 .src.[AssignmentNumber]	SELECT COUNT (*) FROM (SELECT TOP 1 * FROM [src].[Assignments] WHERE NULLIF([AssignmentNumber], '') IS NOT NULL AND [AssignmentNumber] <> '0') subq	AssignmentNumber
3 .src.[AssignmentName]	SELECT COUNT (*) FROM (SELECT TOP 1 * FROM [src].[Assignments] WHERE NULLIF([AssignmentName], '') IS NOT NULL AND [AssignmentName] <> '0') subq	AssignmentName
4 .ISNULL(TRY_CONVERT(DATETIME,src.[DueDate]),'18...	SELECT COUNT (*) FROM (SELECT TOP 1 * FROM [src].[Assignments] WHERE NULLIF([DueDate], '') IS NOT NULL) subq	DueDate