

Loop and Link CSV

VBA



folder/subfolders
produced by crystal (strive4peace)

Presented by
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MsAccessGurus.com

Link using Queries



Access IS *access*

- Link and Import data in lots of different formats
- However, if data will be shuffled to other places, linking doesn't bloat the database like importing does
- Linking to CSV files with Queries is easy with VBA

Link to One CSV file with no corrections

f_LinkOneCSV

Link one CSV file strive4peace 230227

File:

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Queries

 Data 2020

extra characters at beginning are because of UTF-8 format

Data 2020

ProductID	DateTimeZone	A	B	C	D	PerDay
68090	1-8-2020 23:13 CDT	88871	231	11	37	45.02
68090	1-13-2020 23:05 CDT	89009	231	11	37	44.98
68090	2-9-2020 11:41 CDT	89862	236	11	38	44.81
68090	2-13-2020 16:02 CDT	90041	237	11	38	44.8
68090	2-15-2020 13:45 CDT	90090	237	11	38	44.79

Record: 25 of 48 No Filter Search

Browse to File

```
'-----  
'                                     Constants  
'-----  
'bind early or late?  
Public Const gIsEarly As Boolean = True  
'set compiler directive constant  
#Const IsEarly = gIsEarly
```

```
'                                     GetFile  
'-----  
Function GetFile( _  
    Optional psTitle As String = "Select File" _  
    ) As String  
'return file path and name  
'    for example, C:\MyPath\filename.ext  
'crystal, strive4peace 230227  
' REFERENCE for early binding  
'    Microsoft Office #.0 Object Library  
  
    'initialize return value  
    GetFile = ""  
  
    'dimension FileDialog object  
    #If IsEarly Then  
        Dim fDialog As Office.FileDialog  
    #Else  
        Dim fDialog As Object  
    #End If  
  
    'Set File Dialog. 3=msoFileDialogFilePicker  
    Set fDialog = Application.FileDialog(3)  
    'set Title and GetFile  
    With fDialog  
        .Title = psTitle  
        If .Show Then  
            GetFile = .SelectedItems(1)  
        End If  
    End With  
    'release object  
    Set fDialog = Nothing  
End Function
```


VBA to make SQL that links to a CSV file

https://msaccessgurus.com/VBA/SQL_LinkCsv.htm



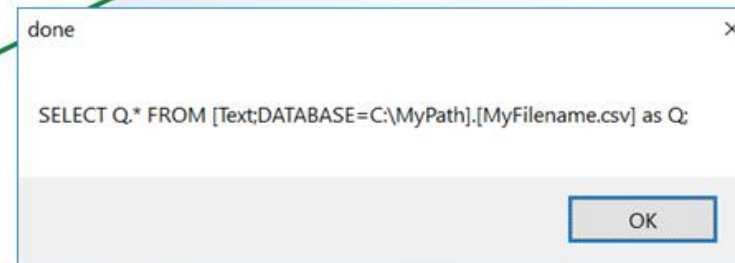
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Create SQL statement that links to a CSV file

```
Sub testGetSQL_LinkCsv_s4p()  
  Dim sPath As String _  
    , sFile As String _  
    , sSQL As String  
  
  sPath = "C:\MyPath"      '----- customize  
  sFile = "MyFilename.csv" '----- customize  
  
  'Call GetSQL_LinkCsv_s4p  
  sSQL = GetSQL_LinkCsv_s4p(sPath, sFile)  
  
  MsgBox sSQL, , "done"  
End Sub
```

```
Public Function GetSQL_LinkCsv_s4p( _  
  psPath As String _  
  , psFilename As String _  
  ) As String
```



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Make a new query or change the SQL of a query

https://msaccessgurus.com/VBA/Query_Make.htm



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Make new Query or Change SQL of existing Query



```
Sub MakeBadQuery()  
  
    'CALLs  
    ' Query_Make_s4p  
  
    Dim sSQL As String  
        , sQueryname As String  
  
    sSQL = "SELECT BadName " _  
        & " FROM BadNames;" _  
  
    sQueryname = "qBadName"  
  
    Call Query_Make_s4p(sQueryname, sSQL)  
  
    MsgBox "Done"  
  
End Sub
```

```
Sub Query_Make_s4p( _  
    ByVal qName As String _  
    , ByVal pSql As String _  
    )
```



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Loop and Link several files



f_LoopLinkCSV

Loop and Link CSV files strive4peace 230227

Folder: Browse...

6 files in folder Recursive -- get files in sub-folders too

Loop and Link Analyze Structure

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Done

10 CSV files linked with 10 queries

OK

k (C:) > MyPath > CSV > DATA > ProductStats >

Name	Date modified	File exte...	Size	Type	Date created
data_2236.csv	2/27/2023 3:01 AM	.csv	47 KB	Microsoft Excel Comma Separated Values File	2/27/2023 3:01 AM
data 2019.csv	2/27/2023 2:27 AM	.csv	5 KB	Microsoft Excel Comma Separated Values File	2/27/2023 2:27 AM
data 2017.csv	2/27/2023 2:26 AM	.csv	4 KB	Microsoft Excel Comma Separated Values File	2/27/2023 2:26 AM
data 2016.csv	2/27/2023 2:25 AM	.csv	2 KB	Microsoft Excel Comma Separated Values File	2/27/2023 2:25 AM
data 2015.csv	2/27/2023 2:25 AM	.csv	1 KB	Microsoft Excel Comma Separated Values File	2/27/2023 2:25 AM
data 2014.csv	2/27/2023 2:24 AM	.csv	2 KB	Microsoft Excel Comma Separated Values File	2/27/2023 2:24 AM
NewFormat	2/27/2023 5:08 PM			File folder	2/27/2023 5:08 PM

- Queries**
- qCsv_data_2014
 - qCsv_data_2015
 - qCsv_data_2016
 - qCsv_data_2017
 - qCsv_data_2019
 - qCsv_Data_2020
 - qCsv_Data_2021
 - qCsv_Data_2022
 - qCsv_Data_2023
 - qCsv_data_2236

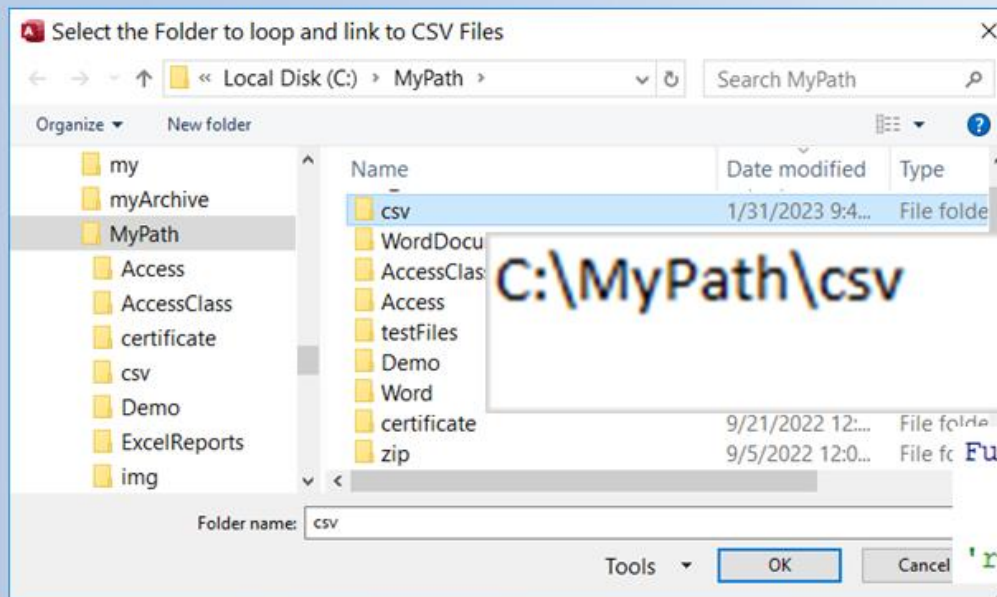
Browse to a Folder

https://msaccessgurus.com/VBA/Office_GetFolder.htm



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GetFolder using Office FileDialog



Browse...

```
Function GetFolder( _  
    Optional psTitle As String = "Select Folder" _  
    ) As String  
    'return folder path or "" if nothing chosen
```

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Remove spaces/unwanted characters from name

https://msaccessgurus.com/VBA/Fx_CorrectName.htm



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Correct Names with bad or unwanted characters using a VBA function



BadName	CorrectName
,48209j@##@!	_48209j_
Arena 1-1	Arena_1_1
This has spaces	This_has_spaces
Dollar sign \$	Dollar_sign_
Number sign #	Number_sign_
Minus sign -	Minus_sign_
Plus sign +	Plus_sign_
Equal sign =	Equal_sign_
Special @\$%^&* characters	Special_characters
Opening (and Closing) Parenthesis and spaces	Opening_and_Closing_Parenthesis_and_spaces
Double " quote mark	Double_quote_mark
Single ' quote mark	Single_quote_mark

```
Function CorrectName_s4p( _  
    ByVal psName As String _  
    ) As String
```

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Remove `ï»¿` if file is stored in UTF-8 format

https://msaccessgurus.com/VBA/File_RemoveUTF8bom.htm



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clean up CSV and text files having a UTF-8 BOM with VBA

<code>ï»¿</code>	CID	CatID	IsACTIV	MainName	NameA	NameB	Title	Sufx	NickNar
1		54	-1	Zanders	Abigail				
3	4	53	-1	Brayton	Valarie				
4		53	-1	Brayton	Glenn				
6	1317	53	-1	Henry	Brad	M.			
7		53	-1	Fiddler	Maude		Jr.		
9	1326	53	-1	Deming	Anna				
10		53	-1	Deming	Maria				
11	1317	53	-1	Rappe	Debbie				
13		53	-1	Zeigler	Betsy				
14		53	-1	Zeigler	Lorrie	M.			
15		53	-1	Sweeney	Gregory	Gaines			
16		53	-1	Sweeney	Gwen				
21		53	-1	Taylor	Rochelle	Jo			
22		53	-1	Taylor	Elroy				

```
Public Function TextFileStripBOM_s4p( _
    psPathFile As String _
) As Boolean
    '230127 strive4peace
    ' remove UTF-8 BOM (byte order mark) ï»¿
    ' from beginning of file
```

CID	CatID	IsACTIV	MainName	NameA	NameB	Title	Sufx	Ni
1		54	-1	Zanders	Abigail			
3	4	53	-1	Brayton	Valarie			
4		53	-1	Brayton	Glenn			
6	1317	53	-1	Henry	Brad	M.		
7		53	-1	Fiddler	Maude		Jr.	
9	1326	53	-1	Deming	Anna			
10		53	-1	Deming	Maria			
11	1317	53	-1	Rappe	Debbie			
13		53	-1	Zeigler	Betsy		Miss	
14		53	-1	Zeigler	Lorrie	M.		
15		53	-1	Sweeney	Gregory	Gaines		III
16		53	-1	Sweeney	Gwen			

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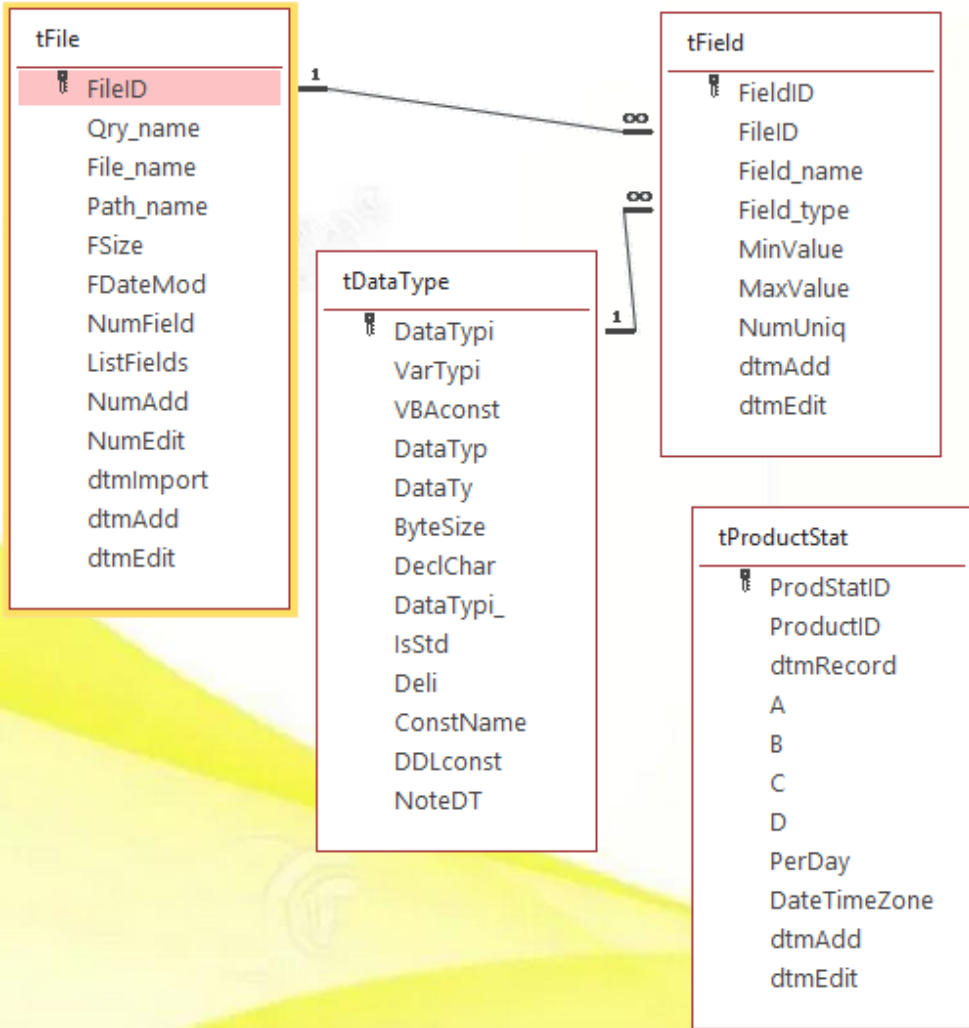
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Link to each file using a Query, Recursive

```
'-----  
'                               LoopLinkCsv_s4p  
'-----  
Public Sub LoopLinkCsv_s4p(psPath As String _  
    , Optional pbRecursive As Boolean = True _  
    , Optional psFilePattern As String = "*.csv" _  
    )
```


Document what got linked & imported and when



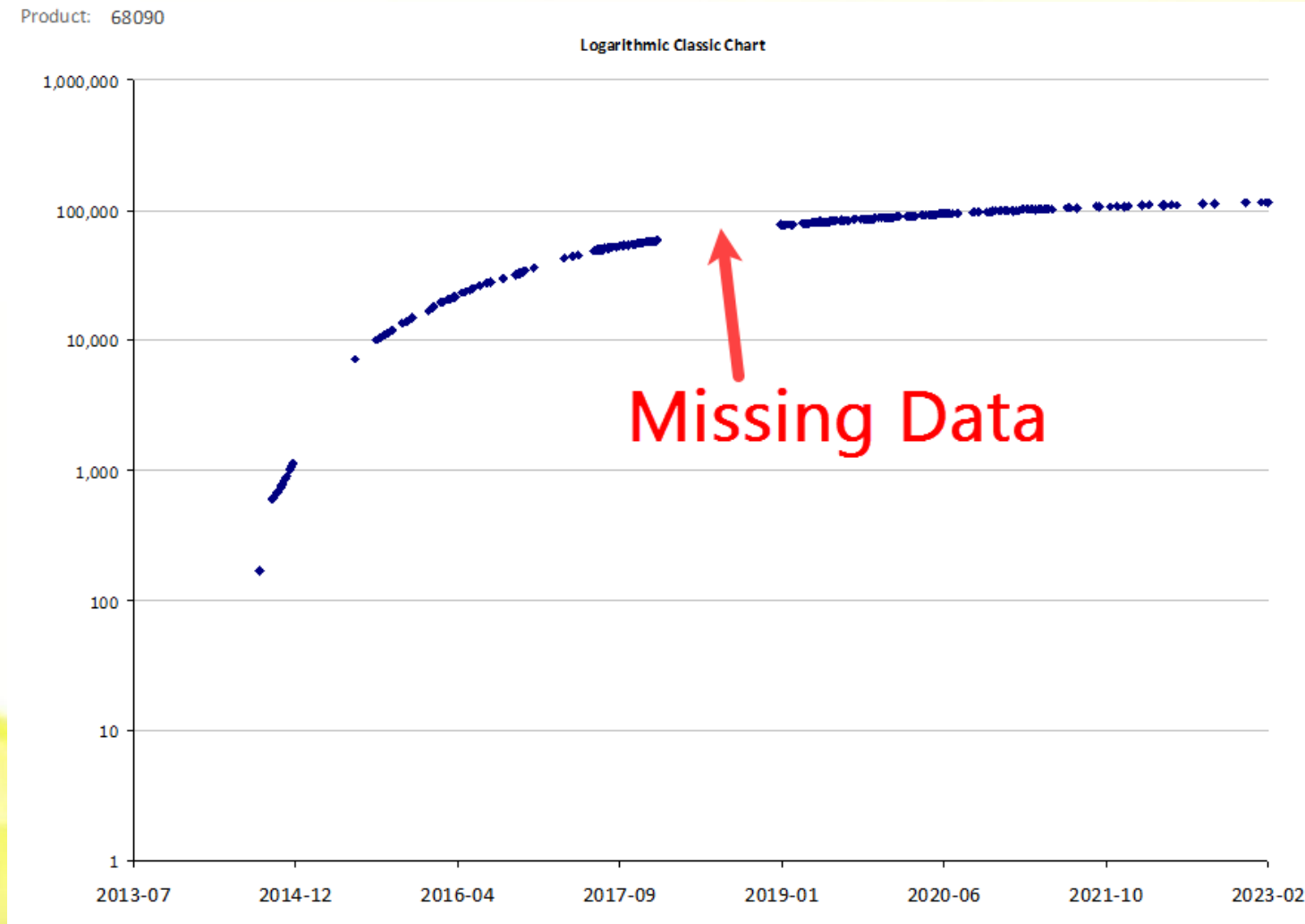
Link and Import 1 / 2
as of 2/28/2023 4:40:35 AM

C:\MyPath\CSV\DATA\ProductStats

File Name	Records	Date/Time	Fields	Summary
data 2014.csv	1,448	Feb 27, 2023 2:24	7 Fields	32 records added, 0 records edited
data 2015.csv	772	Feb 27, 2023 2:25		
data 2019.csv	4,199	Feb 27, 2023 2:27	7 Fields	87 records added, 0 records edited
data_2236.csv	47,249	Feb 27, 2023 3:01	7 Fields	1112 records added, 0 records edited

Field	Data Type
ProductID	Long Integer
DateTimeZone	Short Text
A	Long Integer
B	Long Integer
C	Long Integer
D	Long Integer
PerDay	Double

Show a chart to visualize the data





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