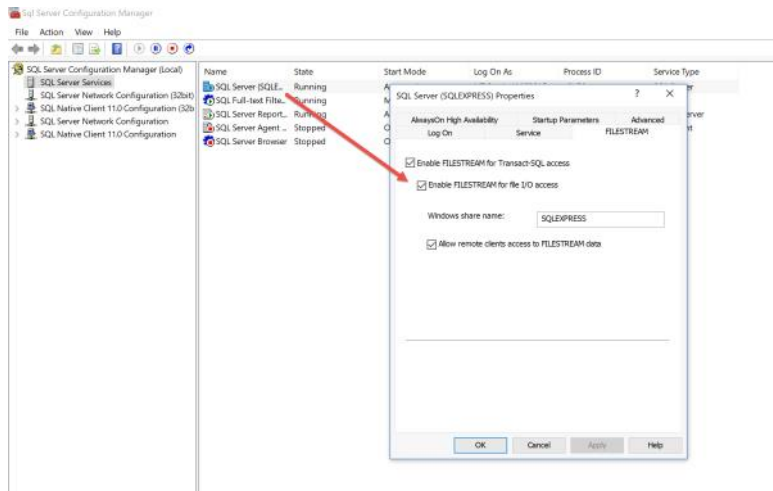
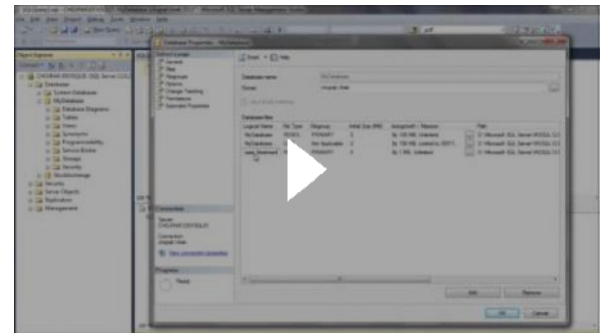


FileStream Blobs

Thursday, June 8, 2017 6:58 PM



FILESTREAM in SQL Server 2014 - practical introduction



```
QueryFullTextIndex...er (LABS\dellp (63)) UsingLike.sql - (loc...ter (LABS\dellp (58)) FileStream.sql - (lo...ter (LABS\dellp (57)) X CreateFullText

1 EXEC sp_configure filestream_access_level, 2
2 RECONFIGURE
3 GO
4
5 USE FilestreamDB
6 GO
7
8 ALTER DATABASE FilestreamDB ADD FILEGROUP [PRIMARY_FILESTREAM] CONTAINS FILESTREAM
9 GO
10
11 ALTER DATABASE FilestreamDB
12     ADD FILE (NAME = N'MyDatabase_filestream',
13     FILENAME = N'C:\DATA\FilestreamDB_filestream'
14 ) TO FILEGROUP [PRIMARY_FILESTREAM]
15 GO
16
17 USE FilestreamDB
18 GO
19
20 CREATE TABLE images(
21     id UNIQUEIDENTIFIER ROWGUIDCOL NOT NULL UNIQUE,
22     imageFile VARBINARY(MAX) FILESTREAM
23 );
24 GO
25
26 INSERT INTO images(id, imageFile)
27     SELECT NEWID(), BulkColumn
28     FROM OPENROWSET(BULK 'C:\Data\anyware.jpg', SINGLE_BLOB) as f;
29
30 SELECT *
31 FROM images;
32
33
34
```

Advantages of Full-Text Search

- Strips out “noise” words and punctuation
- Better than using: Like '%word%'
 - Faster performance
 - “master” doesn’t match “mast”
- Fuzzy searches
 - Not all search words must be found
 - Inflectional forms of words: drive, drove, driven, drives, driving
 - Prefix terms
 - "auto tran*": automatic transmission or automobile transducer

Using Like

Wednesday, June 21, 2017 8:11 PM

UsingLike.sql - (loc...nd (LABS\delip (55))* X SQLQuery3.sql - (lo...d (LABS\delip (52))*

```
1 Use Northwind;
2 GO
3
4 --Likes can These Can Be Slow....
5 Select Notes From Employees
6 Where Notes Like '%German%'
7
```

136 %

Results Messages Execution plan

	Notes
1	Andrew received his BTS commercial in 1974 and a Ph.D. in international marketing from the University of Dallas in 1981. He is fluent in French and Italian and
2	Anne has a BA degree in English from St. Lawrence College. She is fluent in French and German.

Results Messages Execution plan

Query 1: Query cost (relative to the batch): 100%

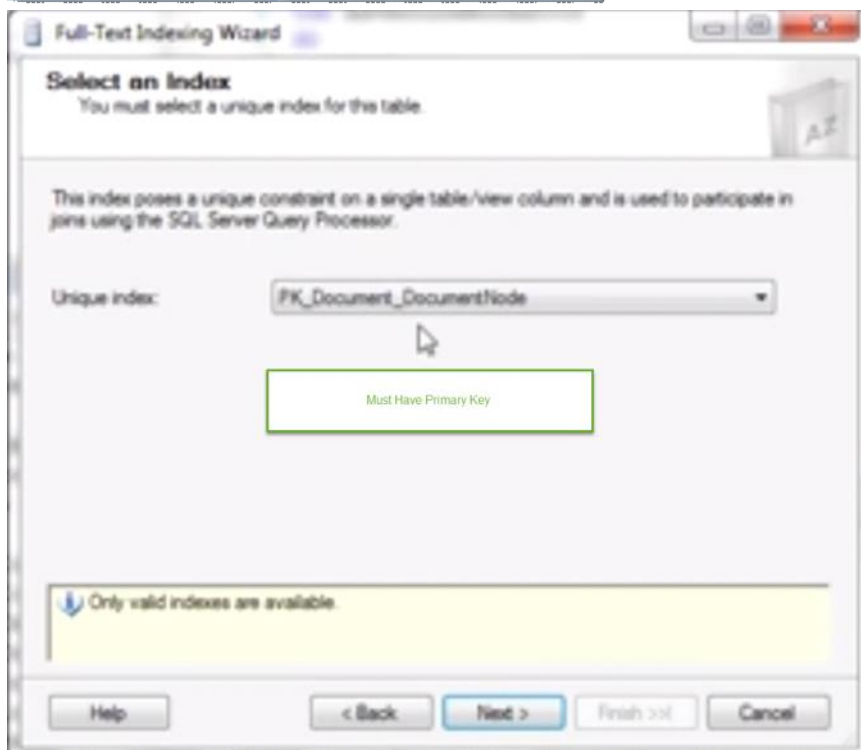
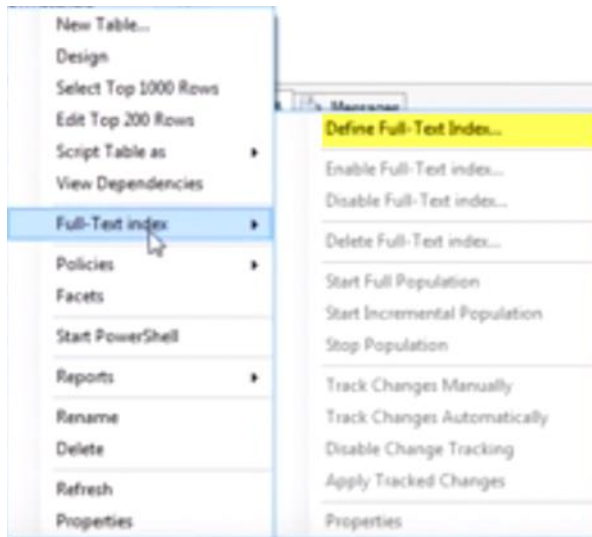
Select Notes From Employees Where Notes Like '%German%'

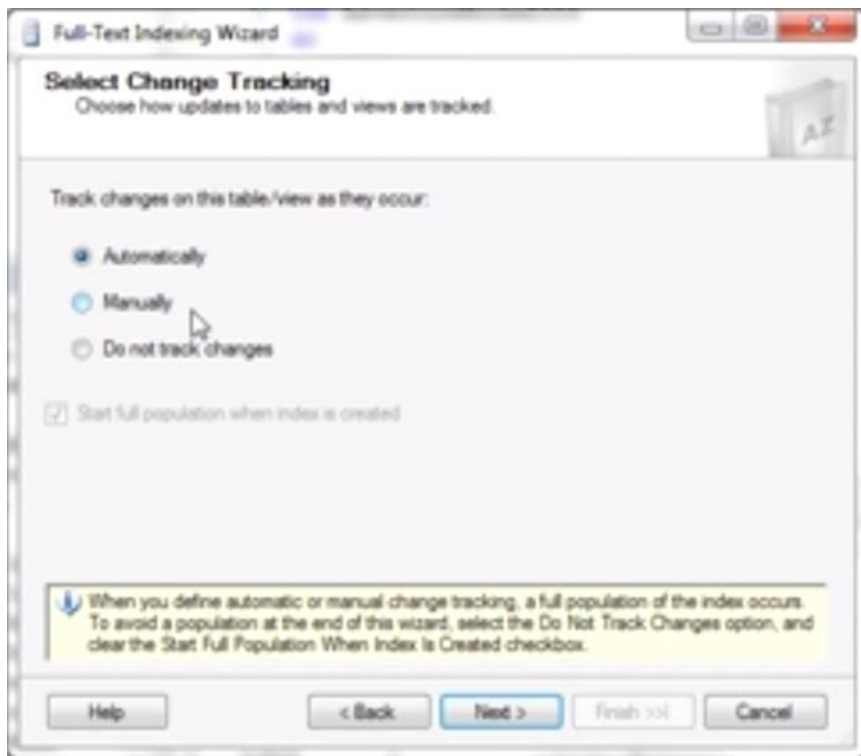
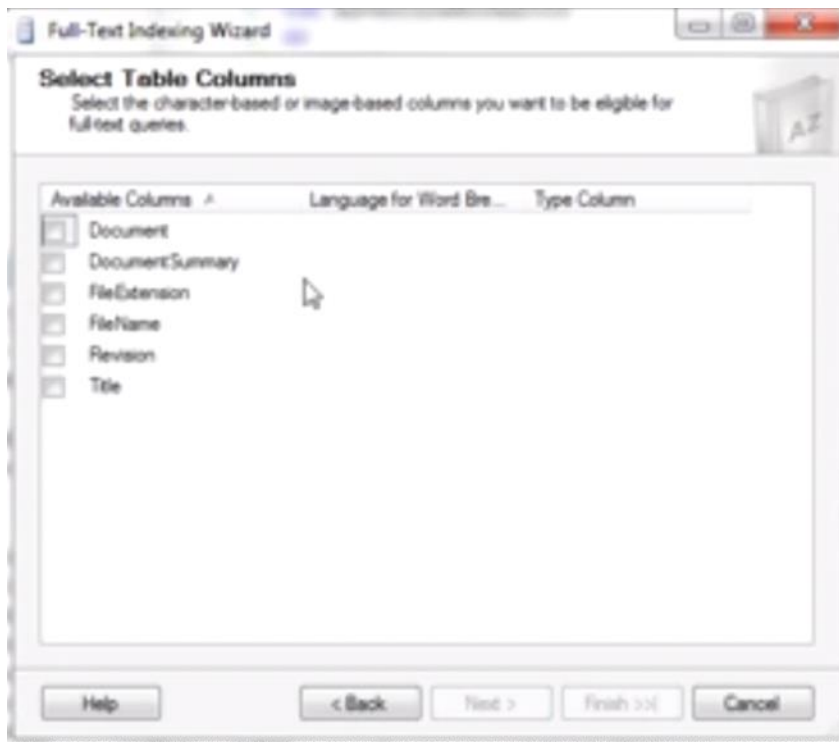
```
graph RL
    A[Clustered Index Scan (Clustered) [Employees].[PK_Employees] Cost: 100 %] --> B[Filter Cost: 0 %]
    B --> C[SELECT Cost: 0 %]
```

Create Full Text index

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□ Right Click on Table





Full-Text Indexing Wizard

Select Catalog, Index Filegroup, and Stoplist

You must select an existing full-text catalog or create one for this database.

If this is a large table or view, or if the chosen full-text catalog has indexed or other large tables, consider assigning this table or view its own full-text catalog.

Select full-text catalog: FullIX

☐ Create a new catalog

New catalog

Name:

☐ Set as default catalog

Accent sensitivity: ☐ Sensitive ☐ Invariant

Select index filegroup: <default>

Select full-text stoplist: <system>

Help < Back Next > Finish >> Cancel

Full-Text Indexing Wizard

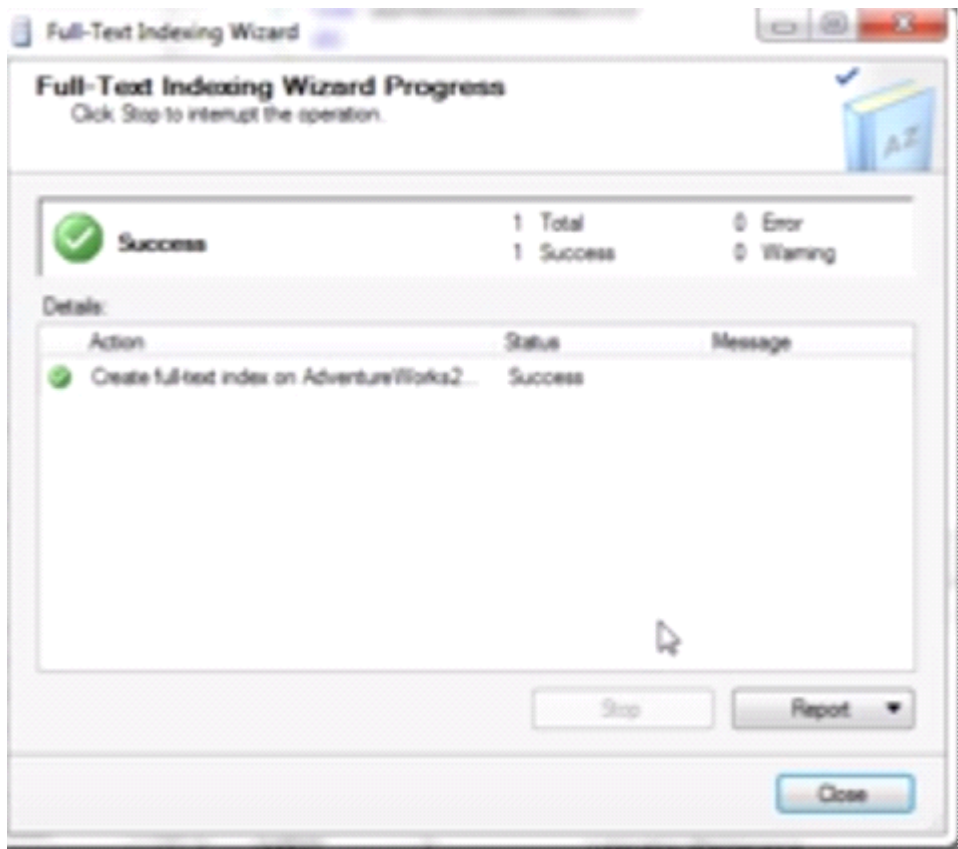
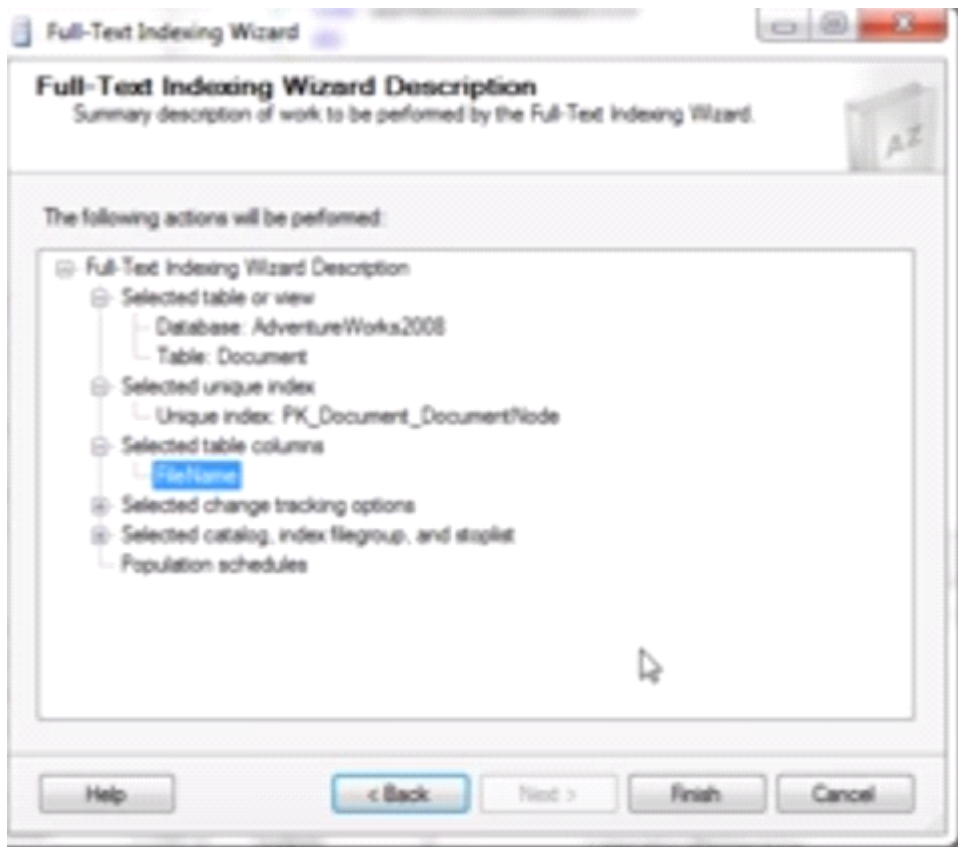
Define Population Schedules (Optional)

Create or modify the population schedule for this full-text catalog.

Name	Population Type	Enabled	Description
------	-----------------	---------	-------------

New Table Schedule New Catalog Schedule Edit Delete

Help < Back Next > Finish >> Cancel



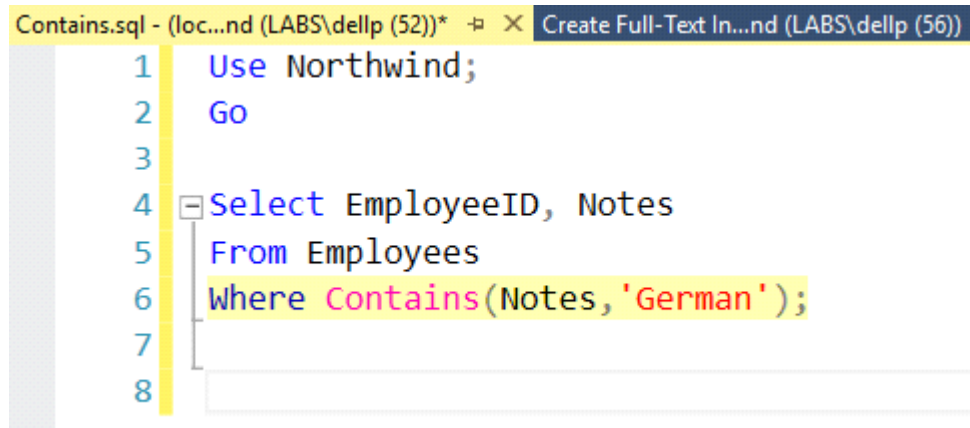
Full-text Script

Wednesday, June 21, 2017 8:40 PM

```
CreateFullTextIndex...r (LABS\delip (55)) X
1  Use Northwind;
2  Go
3
4  Create FullText Catalog NorthwindCatalog
5  Go
6
7  Create Unique Index EmployeeNotes On Employees(EmployeeID);
8  Go
9
10  Create FullText Index On Employees
11      (Notes Language 1033)
12  Key Index EmployeeNotes On NorthwindCatalog
13  Go
14
15  Select EmployeeId, notes
16  From Employees
17  Where Contains(Notes, 'degree');
18
19  Select EmployeeId, notes
20  From Employees
21  Where Contains(Notes, 'college');
22
23  --Drop FullText Catalog NorthwindCatalog;
24
```


Query FullText Index

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The screenshot shows a SQL query editor window with two tabs. The active tab is titled "Contains.sql - (loc...nd (LABS\dellp (52)))*" and the other tab is "Create Full-Text In...nd (LABS\dellp (56))". The query text is as follows:

```
1 Use Northwind;
2 Go
3
4 Select EmployeeID, Notes
5 From Employees
6 Where Contains(Notes, 'German');
7
8
```