ActiveNavigation

Database Views for Custom Queries

Release 4.3.5

Contents

Introduction

Note that the following is intended for use only by those competent with the use and creation of SQL queries through SQL Server Management Studio.

Active Navigation's relational database provides Public Views (consisting of database views and functions) for use by Professional Services Consultants and Product Support Engineers to support the rapid creation of custom queries. These views and functions are intended to be incorporated into queries created using SQL Server Management Studio. All are stored within the *PublicViews* schema and may be browsed through SQL Server Management Studio under *Databases > <ActiveNav> > Programmability > Functions* and *Databases > <ActiveNav> > Programmability > Views.*

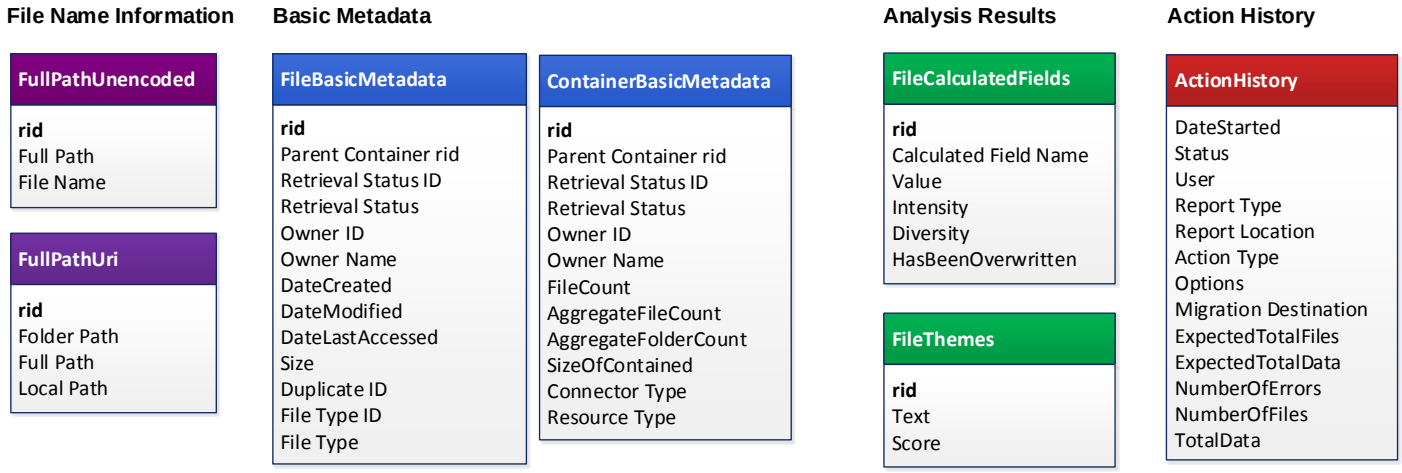
The following functions and views are provided:

- **Views**:
    - *PublicViews.FullPathUnencoded* – select all resources showing UNC file path
    - *PublicViews. FullPathUri* – select all resources showing UNC file path
    - *PublicViews.FileBasicMetadata* – select all file resources with their basic metadata
    - *PublicViews.ContainerBasicMetadata* – select all container resources with basic metadata rolled up from contained resources.
    - *PublicViews.FileCalculatedFields* – select all file resources with their calculated field values
    - *PublicViews.FileThemes* – select all file resources with their extracted themes
    - *PublicViews.ActionHistory* – summary of actions performed on the system
- **Functions**:
    - *PublicViews.GetChildContainers(<start location ID>)* – given a starting container resource ID, select all child container resources.

If these *PublicViews* can be found in your database then they need first to be installed by executing a simple SQL script, available from Active Navigation Support, on your Active Navigation database.

Basic Relationships

Active Navigation records all file and containers (folders, SharePoint sites etc) as resources, each with a unique ID (*Rid*), in the resources table. Each of the provided views is related to resources by *Rid*.



Views can be used alone in a simple query such as (to list all discovered files and their paths):

*SELECT * FROM PublicViews.FullPathUri*Or by joining on the public key *Rid*, for example, to list all files and their themes:

*SELECT * FROM PublicViews.FullPathUri FullPath LEFT JOIN PublicViews.Filethemes Themes ON FullPath.Rid = Themes.Rid*

Building Useful Queries

Simple Resource Lists

To list resources, use *PublicViews.FullPathUri* and *PublicViews.FullPathUnencoded* with a where clause to select the required resources; for example, to list all resources with *an test files* in their path:

```
SELECT * FROM PublicViews.FullPathUnencoded
WHERE [Full Path] LIKE '%an test files%'
```

Resource Lists with Metadata

To list metadata (basic metadata, themes or calculated fields), you can run one of the metadata views in a query alone; however, to include the relevant file/container information you will need to join the views as follows:

```
SELECT * FROM PublicViews.FullPathUnencoded FullPath
JOIN PublicViews.FileBasicMetadata BasicMetadata ON FullPath.Rid = BasicMetadata.Rid
WHERE [Full Path] LIKE '%an test files%'
```

Alternatively, to perform the above but listing only containers and their metadata:

```
SELECT * FROM PublicViews.FullPathUnencoded FullPath
JOIN PublicViews.ContainerBasicMetadata BasicMetadata on FullPath.Rid = BasicMetadata.Rid
WHERE [Full Path] LIKE '%an test files%'
```

Note that running the above queries without joining to the view *FullPathUnencoded* or *FullPathUri* will list only the *Rid* rather than providing the path details.

Working with Children of a Specific Container

Use the function *PublicViews.GetChildContainer(<start location>)* to select only children of the container with *Rid <start location>*:

```
SELECT * FROM PublicViews.FullPathUnencoded FullPath
JOIN PublicViews.GetChildContainers(1001) ChildContainers ON FullPath.Rid = ChildContainers.Rid
JOIN PublicViews.ContainerBasicMetadata BasicMetadata ON FullPath.Rid = BasicMetadata.Rid
```

The above will return the containers, and their metadata, which are children of container 1001.

You can find the *Rid* for the start location of an index by selecting *IndexDefinition.EntryPointRid*, for example, to select the start location of an index called *T3*

```
SELECT EntryPointRid FROM IndexDefinition WHERE Name = 'T3'
```

More Complex Examples

List all empty containers which are children of the container with *Rid = 1*:

```
SELECT FullPath.[Full Path], FullPath.[File Name], BasicMetadata.[Connector Type],
BasicMetadata.[Resource Type],BasicMetadata.[Owner Name]
FROM PublicViews.GetChildContainers(1) ChildContainers
JOIN PublicViews.ContainerBasicMetadata BasicMetadata ON ChildContainers.Rid=BasicMetadata.Rid
JOIN PublicViews.FullPathUnencoded FullPath ON ChildContainers.Rid=FullPath.Rid
WHERE BasicMetadata.AggregateFileCount = 0
```

List all themes for with file type containing *word*:

```
SELECT FullPath.[Full Path],FullPath.[Local Path],Themes.[Text],Themes.Score, BasicMetadata.*
FROM PublicViews.FullPathUri FullPath
JOIN PublicViews.FileThemes Themes ON FullPath.Rid = Themes.Rid
JOIN PublicViews.FileBasicMetadata BasicMetadata ON FullPath.Rid = BasicMetadata.Rid
WHERE BasicMetadata.[File Type] LIKE '%word%'
```

You can introduce a variable to combine *PublicViews.GetChildContainers* with the results of a SELECT query, as shown below to get the basic metadata for all files in the index called *T3*.

```
DECLARE @IndexRid INT
SELECT @IndexRid=EntryPointRid FROM IndexDefinition WHERE Name = 'T3'
SELECT PublicViews.FullPathUnencoded.[Full Path], PublicViews.FileBasicMetadata.*
FROM PublicViews.GetChildContainers( @IndexRid ) AS ChildContainers
JOIN PublicViews.FileBasicMetadata ON ChildContainers.Rid = PublicViews.FileBasicMetadata.[Parent Container Rid]
JOIN PublicViews.FullPathUnencoded ON PublicViews.FileBasicMetadata.Rid = PublicViews.FullPathUnencoded.Rid
```

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