

Creator: Luis Mireles

Date: 5/9/2023

Tools: 2019 Visual Studio SSIS | SSRS | SQL Server 2019

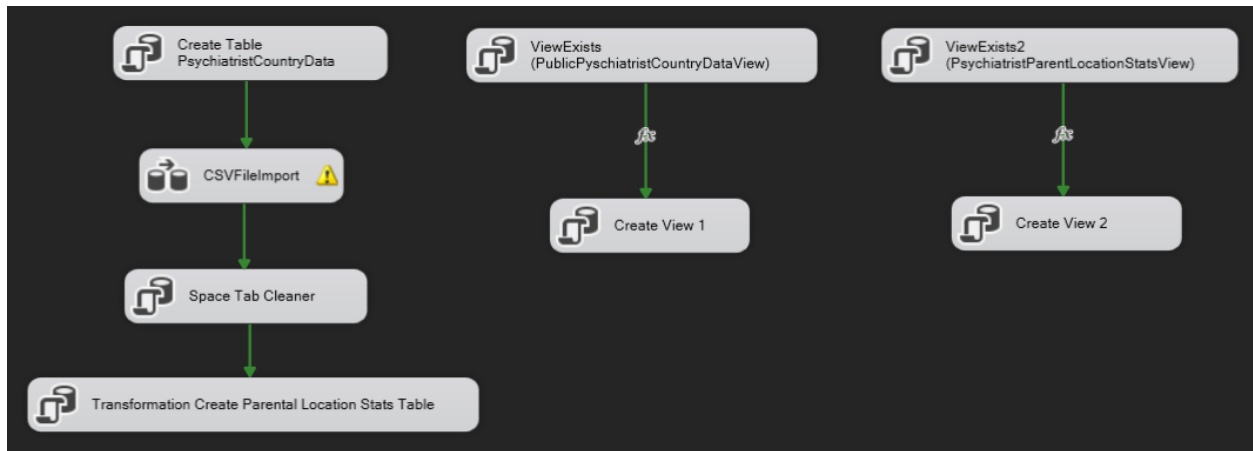
Source Data: [https://www.who.int/data/gho/data/indicators/indicator-details/GHO/psychiatrists-working-in-mental-health-sector-\(per-100-000\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/psychiatrists-working-in-mental-health-sector-(per-100-000))

  
Psychiatrists\_Mental\_Health\_Sector\_Per\_Coi

Csv:

  
SSIS\_Project\_ETL\_1.sln

SSIS Project:



  
SSIS\_Report: SSIS\_Project\_ETL\_1\_Reporting.sln

# Psychiatrist Parent Location Stats Report

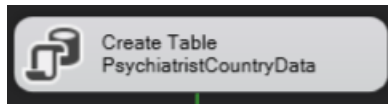
Parent Location	Number Of Countries	Psychiatrist Parent Location Averages	Best Performing Country	Best Performing Country Psychologists Per100k
Africa	36	0.271444	Mauritius	2.3800
Americas	28	4.055892	Argentina	21.7100
Eastern Mediterranean	15	1.393333	Bahrain	5.4700
Europe	40	12.894500	Norway	48.0400
South-East Asia	10	0.569100	Maldives	2.3900
Western Pacific	17	4.941764	New Zealand	28.5400

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## ETL Breakdown(FULL VISUAL)



```
DROP TABLE IF EXISTS [dbo].[PsychiatristCountryData]
```

```
IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[dbo].[MyTable]') AND type in (N'U'))
```

```
CREATE TABLE [dbo].[PsychiatristCountryData] (
```

```
    ParentLocationCode NVARCHAR(50),
```

```
    ParentLocation NVARCHAR(100),
```

```
    LocationType NVARCHAR(50),
```

```
    LocationCode NVARCHAR(100),
```

```
    Location NVARCHAR(100),
```

```
    Year NVARCHAR(50),
```

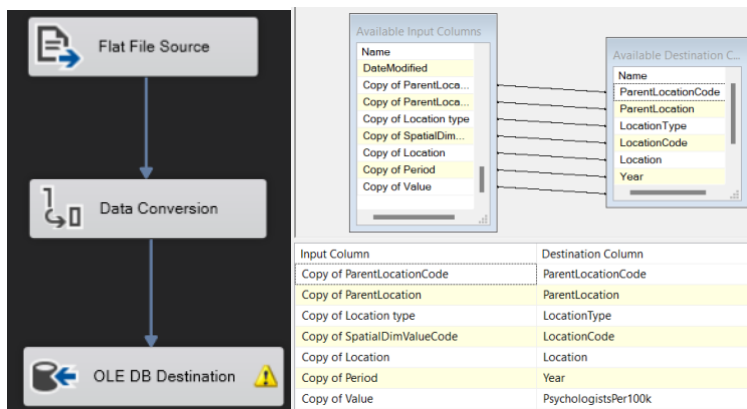
```
    PsychologistsPer100k DECIMAL(10, 4)
```

```
);
```



Control Flow:

Data Flow for CSVFileImport



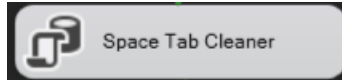
Flat file connection manager:

Psychiatrists\_Mental\_Health\_Sector\_Per\_Country\_Data

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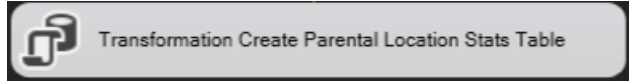
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-- Calls on procedure to clean double spaces, tabs, trim etc.

```
EXEC dbo.CleanseTableColumns 'PsychiatristCountryData', 'dbo';
```



```
IF OBJECT_ID('LMDatabase.dbo.PsychiatristParentLocationStats', 'U') IS NOT NULL
```

```
DROP TABLE [LMDatabase].[dbo].[PyschiatristParentLocationStats];
```

```
WITH BestPerformingCountriesCTE AS (
```

```
    SELECT [ParentLocation]
```

```
        ,[Location] AS BestPerformingCountry
```

```
        ,[PsychologistsPer100k] AS BestPerformingCountryPsychologistsPer100k
```

```
        ,[ROW_NUMBER() OVER (PARTITION BY [ParentLocation] ORDER BY [PsychologistsPer100k] DESC)
```

```
    AS CountryRank
```

```
    FROM [LMDatabase].[dbo].[PsychiatristCountryData]
```

```
)
```

```
, ParentLocationData AS (
```

```
    SELECT [ParentLocation]
```

```
        ,COUNT(DISTINCT [Location]) AS NumberOfCountries
```

```
        ,AVG([PsychologistsPer100k]) AS [PsychiatristParentLocationAverages]
```

```
    FROM [LMDatabase].[dbo].[PsychiatristCountryData]
```

```
    GROUP BY [ParentLocation]
```

```
)
```

```
SELECT ParentLocationData.[ParentLocation]
```

```
    ,ParentLocationData.NumberOfCountries
```

```
    ,ParentLocationData.[PsychiatristParentLocationAverages]
```

```
    ,BestPerformingCountriesCTE.BestPerformingCountry
```

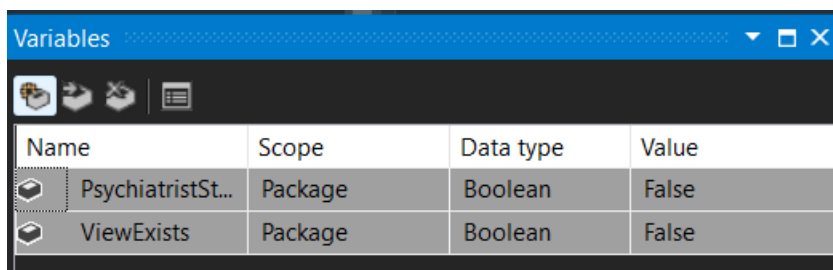
```
,BestPerformingCountriesCTE.BestPerformingCountryPsychologistsPer100k
```

```
INTO [LMDatabase].[dbo].[PyschiatristParentLocationStats]
```

```
FROM ParentLocationData
```

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## VIEWS



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Double Click Green Line to set proper expression

Precedence Constraint Editor

A precedence constraint defines the workflow between two executables. The precedence constraint can be based on a combination of the execution results and the evaluation of expressions.

Constraint options

Evaluation operation: Expression and Constraint

Value: Success

Expression: @[User::ViewExists] == (DT\_BOOL)0 Test

Multiple constraints

If the constrained task has multiple constraints, you can choose how the constraints interoperate to control the execution of the constrained task.

☒ Logical AND. All constraints must evaluate to True

☐ Logical OR. One constraint must evaluate to True

OK Cancel Help

It will then proceed to the second part if the condition is met.

(2<sup>nd</sup> PART | Create View 1)

#1<sup>st</sup> part for this is the same as for the other View for instructions it is just the other variable:  
PsychiatristStatsViewExists

And Expression under Precedence Constraint Editor (Double click green line) is:

`@[User::PsychiatristStatsViewExists] == (DT_BOOL)0`

`CREATE VIEW [dbo].[PublicPyschiatristCountryDataView]`

`AS`

`SELECT TOP (1000) ParentLocation, Location, Year, PsychologistsPer100k`

`FROM dbo.PsychiatristCountryData`

`ORDER BY PsychologistsPer100k DESC;`

(2<sup>nd</sup> PART | Create View 2)

`CREATE VIEW [dbo].[PsychiatristParentLocationStatsView]`

`AS`

`SELECT ParentLocation, NumberOfCountries, PsychiatristParentLocationAverages,  
BestPerformingCountry, BestPerformingCountryPsychologistsPer100k`

`FROM dbo.PsychiatristParentLocationStats;`