

ASSIGNMENT 2

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1. SELECTING NODES:

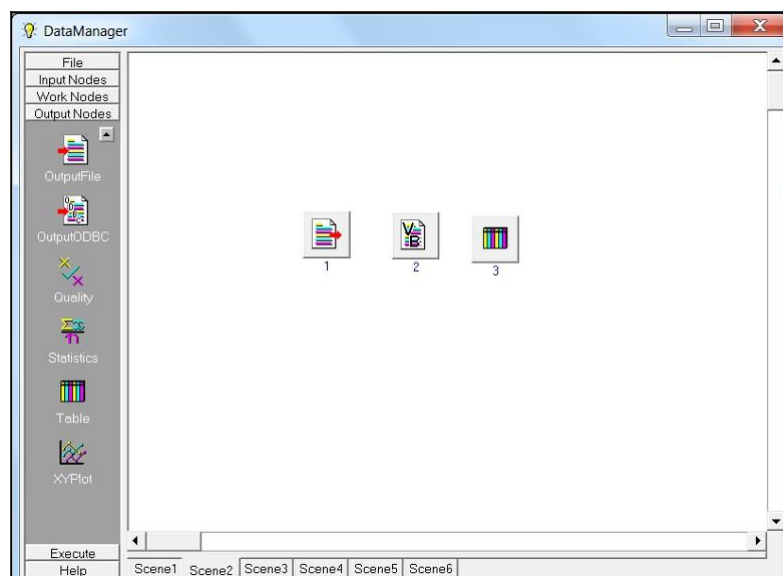
There are three types of nodes defined:

Input Nodes

Work Nodes

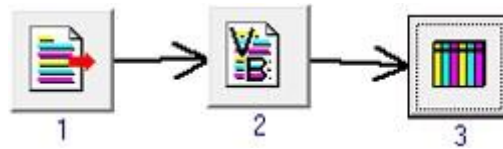
Output Nodes

Select and drop the Input Node ☐ InputFile Node into the workspace Select and drop the Work Nodes ☐ VBScript node into the workspace Select and drop the Output Nodes ☐ Table node into the workspace



2. CONNECTING THE NODES:

To connect the nodes, right-click on the node and select Connect Node.



3. CONFIGURING INPUT NODE:

The InputFile dialog box is shown with the following settings:

- File Name: \\Chapter 3\\sampleHCSurvey02.txt
- File Delimiter: Comma (selected)
- File Options: Has Header (checked), Strip Space (unchecked), Strip Quotes (unchecked)
- Start Row: 0
- End Row: 0
- Output Data Columns: Patientid, recorddate, sex, age, weight, height

4. CONFIGURING WORK NODE AND VBSCRIPT:

The VBScript(2) dialog box is shown with the following settings:

- Input Data Columns: V0: Patientid, V1: recorddate, V2: sex, V3: age
- Output Data Columns: AFormattedField
- Buttons: Add, Change, Remove, Shift Up, Shift Down
- Buttons: Dismiss

The VBScriptCode dialog box shows the following VBS code:

```
Option Explicit

' This Subroutine is First Called to Process the Row of Data
Public Sub ProcessRow(ByVal RowNum, ByVal NoRows)

    ' Get the Number of Input & Output Parameters
    Dim NumIn
    Dim NumOut
    NumIn = io.InputSize
    NumOut = io.OutputSize

    ' Define the Input and Output Column Variables
    Dim V0
    Dim V1
    Dim V2
    Dim V3

    VBScript Include File: [Browse]

    [Create Default Code] [Test Code] [Dismiss]
```

The screenshot shows a VBScript editor window with the following code:

```

VBScript Code
Call io.GetInVal(105, V105)
Call io.GetInVal(106, V106)

' Add Your Code Here
' --- the following code formats the record date
' --- field and then puts just the 4-character
' --- year in

```

A modal dialog box titled "Test VBScript Success" is displayed in the center. It contains an information icon and the text "No Errors Found With Script". An "OK" button is at the bottom right of the dialog.

Below the dialog, the script continues with:

```

Dim z
z = FormatD
z = right(z
Out0 = z

' Pass Back
Call io.Set

End Sub

```

At the bottom of the editor window, there is a "VBScript Include File:" field and three buttons: "Create Default Code", "Test Code", and "Dismiss". A "Browse" button is also visible on the right side of the window.

Table(3)

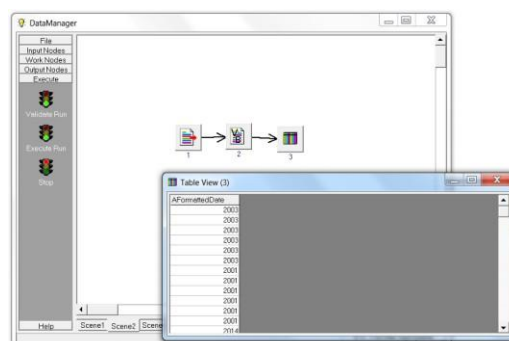
Output Data Columns

Analyse

AFormattedDate

Table Description

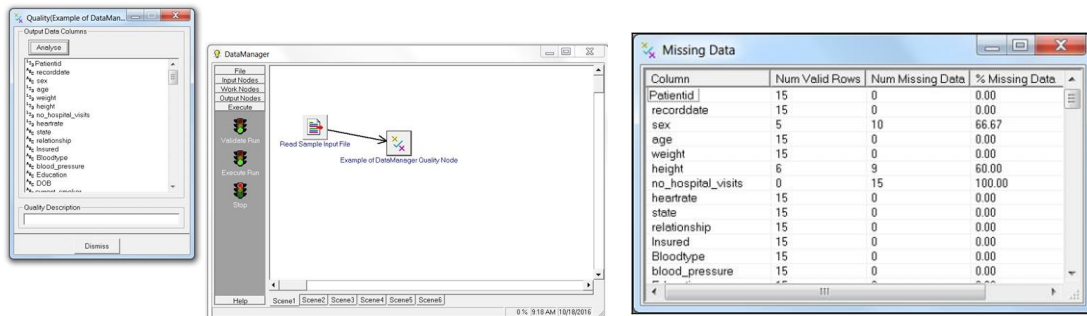
Dismiss



OTHER EXAMPLES

1. ADDRESSING QUALITY:

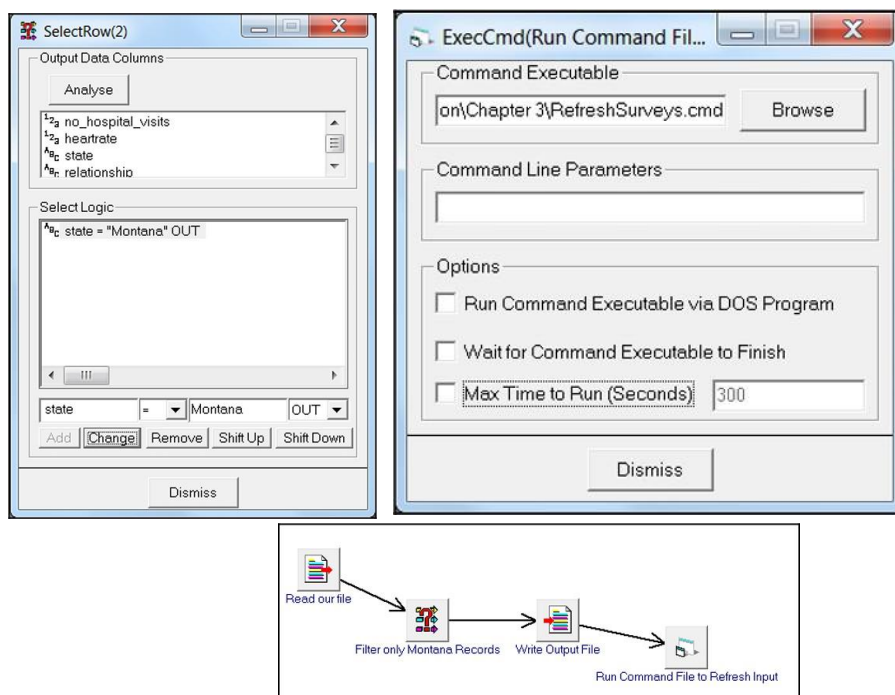
The Quality node can be added to any DataManager scene and connected to a valid Input Node. For the customisation of the Quality node click on the button labelled Analyse to set the data file the node will read and (optionally) provide a Quality Description (the name DataManager will give to the output of the quality node).



2. STATUS AND RELEVANCE:

Assuming a blank scene with the same Input Nodes (and using the same steps to connect the nodes), we can create the following processing:

Input | SelectRow | Table | OutputFile | ExecCmd



3. CONSISTENCY:

```
' -- code to make sex response consistent  
Dim z  
z = V2  
IF (TRIM(z) = "M") or (TRIM(z) = "1") then  
    z = "Male"  
end if  
IF (TRIM(z) = "F") or (TRIM(z) = "2") then  
    z = "Female"  
end if  
  
Out0 = z
```

4. RELIABILITY:

The image shows two side-by-side screenshots of software windows. The left window, titled 'SelectRow(2)', has an 'Output Data Columns' section with an 'Analyse' button and a list containing 'height', 'no_hospital_visits', 'heartrate', and 'state'. Below this is a 'Select Logic' section with a list containing 'heartrate > 27 AND' and 'heartrate < 299 OUT'. At the bottom are buttons for 'Add', 'Change', 'Remove', 'Shift Up', 'Shift Down', and 'Dismiss'. The right window, titled 'Filter(3)', has an 'Output Data Columns' section with an 'Analyse' button and a 'Remove Selected' button. It contains a list of variables: 'Patientid', 'recorddate', 'sex', 'age', 'weight', 'height', 'no_hospital_visits', 'heartrate', 'state', 'relationship', 'insured', 'Bloodtype', 'blood_pressure', 'Education', 'DOB', 'current_smoker', 'current_drinker', 'currently_on_medications', and 'known_allergies'. A 'Dismiss' button is at the bottom.

5. APPROPRIATENESS:

The image shows a screenshot of a software window titled 'Sample(4)'. It has a 'Mode' section with 'Pass On' selected and 'Discard' unselected. Below this is a 'Style' section with 'First' unselected, '1-in-N' unselected, and 'Random (%)' selected. The 'Style Entry' field contains '1', and the 'Random Seed' field contains '1234567890'. At the bottom is an 'Output Data Columns' section with an 'Analyse' button and a list containing 'Patientid', 'recorddate', 'sex', 'age', 'weight', 'height', 'no_hospital_visits', and 'heartrate'. A 'Dismiss' button is at the bottom.