**Prerequisites:**

* Just Excel Reader in Writer\_Final\_Demo workflow, with “Students.xlsx” already loaded into it.
* Chart in QlikView shows no data (because “Students.qvx” does not exist in “Documents” directory).
* In QlikView, directory opens to “Documents”.

**Overview:**

Workflow starts with just an Excel Reader node. Open the node and explain the dataset briefly. Drag a Qvx Writer node to the Workflow. Set the file name to “Students.qvx” (in the writer node’s default directory). Go to “Field Attributes” panel. Explain the meaning of this panel. Change DOB to date type, GPA to fix type with 2 decimal places, and Rate\_Of\_Pay to Money. Explain that Unknown means number with decimal point.

In QlikView, Ctrl-E to Edit Script. Click “Table Files”, then click on “Students.qvx”. Point out that GPA is only showing 2 decimal places, DOB column is stored as dates, and Rate\_Of\_Pay is stored as money. Close the Edit Script dialog. Reload the page. Briefly talk about the pie chart, then generally talk about the usefulness of our product (i.e. we can generate a data file that can be read by QlikView, and we can create visualizations from this data).

**Script (between 2:30 and 3:00):**

Our Qvx Writer node converts a KNIME data table into a Qvx File. The generated Qvx File can be loaded into QlikView, and the user can use this data to create a data visualization, such as a chart or graph. In this KNIME workflow, I have already create a data table by using an Excel Reader node. This is a dataset that shows information about various students, such as GPA and major. Our end goal of this demo is to produce a pie chart in QlikView that shows how many students there are for each major. First, we have to generate a Qvx File. So we drag our Qvx Writer node to the Workflow. Then, we have to set the name and location of the output file. We will overwrite the file if it already exists. Our Writer Node also allows the user to choose how the data should be stored in the Qvx file. This panel here gets the default Qvx data type, based on how the data is stored in KNIME. We can overwrite the default data type. We will store the Date of Birth as a date rather than a timestamp. The GPA column defaults to UNKNOWN type, which refers to decimal numbers. We will change GPA so that it is rounded to 2 decimal places; we have to use the FIX data type. We also want to store Rate\_Of\_Pay as a money value. Now, we save our settings, then we execute our node.

Now, we go to QlikView to verify that the file was generated correctly, and then create the pie chart that I mentioned earlier. First, we preview the data table. We can see that the dates are formatted as dates, GPA is to 2 decimal places, and Rate\_Of\_Pay is interpreted as money.

So, now if I refresh the page, we can see a pie chart, which shows us that the most common college major is biology, which is consistent with the original Excel data file. To quickly recap, we loaded a dataset into KNIME, then used our Writer node to generate a Qvx file, then we loaded the Qvx file into QlikView, so that we could create a visualization.

(Entity relationship diagram)