

Week 4 Practical Lab: Simple ETL Process using KNIME

Useful resources:

- KNIME Analytics Platform download link: https://www.knime.com/downloads/download-knime

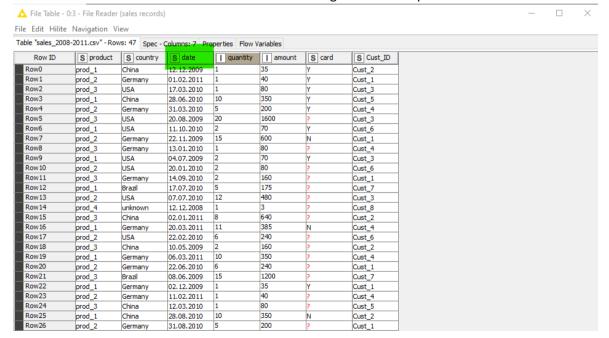
 (It is recommender to download the installer version 561 MB for Windows)
- Example Data set, Sales Data
 https://sistc.learnbook.com.au/mod/resource/view.php?id=3632&redirect=1

Objective:

Implement ETL process using KNIME on a sample data set

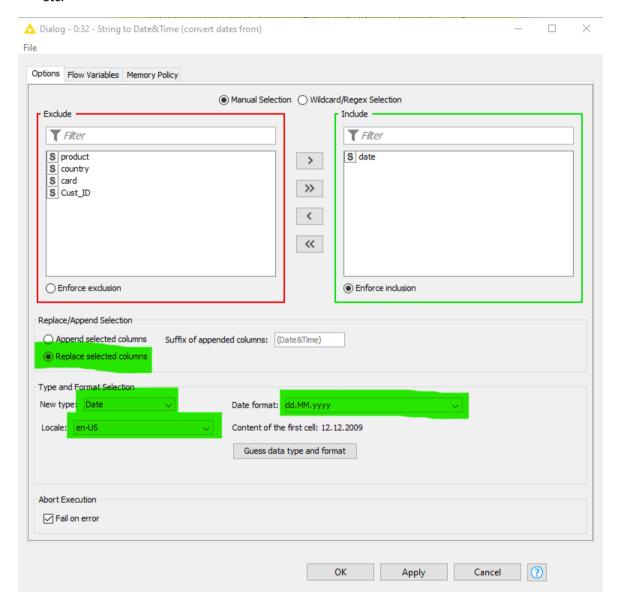
Instructions:

- 1. Open the KNIME software installed on your computer.
- **2.** Create a new workflow from File-> New -> **New KNIME Workflow** -> Next -> *Enter a project name* -> Finish.
- 3. Select a data set of your choice from the given link (https://archive.ics.uci.edu/ml/index.php) and open the file using the appropriate node reader. (In this example, the following data set is chosen: https://sistc.learnbook.com.au/mod/resource/view.php?id=3632&redirect=1)
- 4. Execute the File Reader node and observe data through *File Table* option



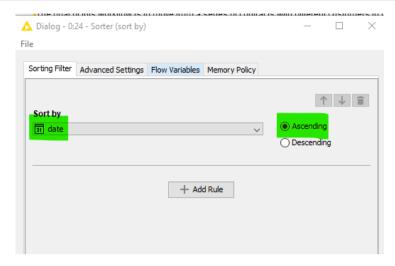


- a. From the file table, it can be seen that, the date column is in **String** format. Therefore, it needs to converted to **date** format.
- 5. To convert the column from String to Date, take the *String to Date&Time* node and configured as follows. In other cases, you can convert string to number, number to string etc

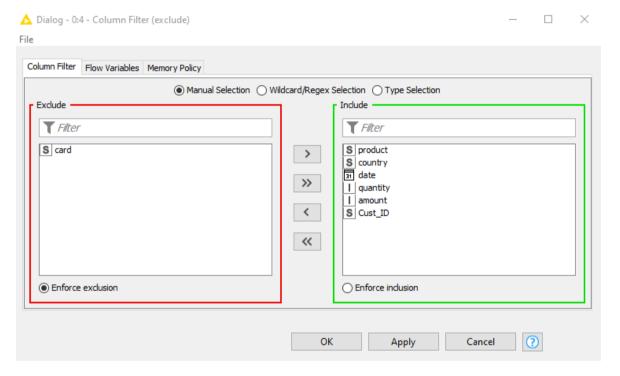


6. To sort the data set based on date, take the **Sorter** node and configure as follows.



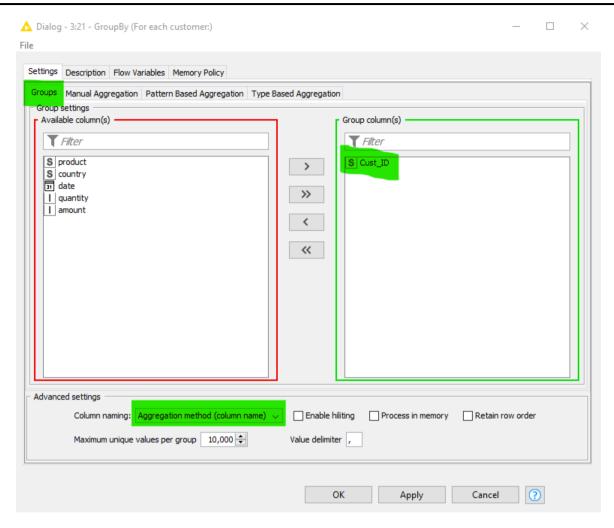


7. To exclude a column, connect the **Column Filter** node and configure as follows.

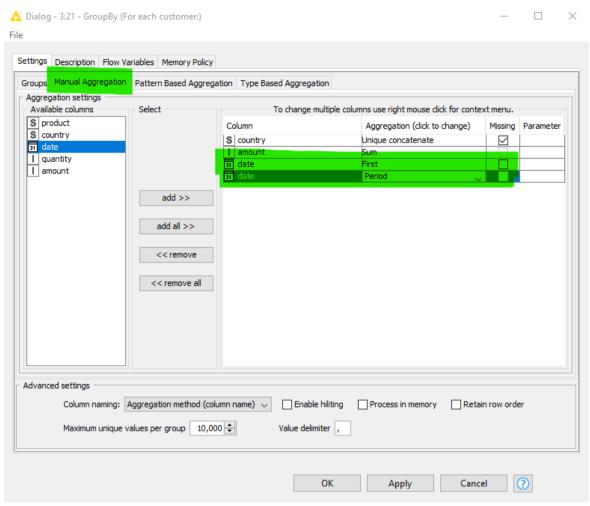


8. To move from a series of contracts to a one-row summary for each customer, select the GroupBy node and configure accordingly.



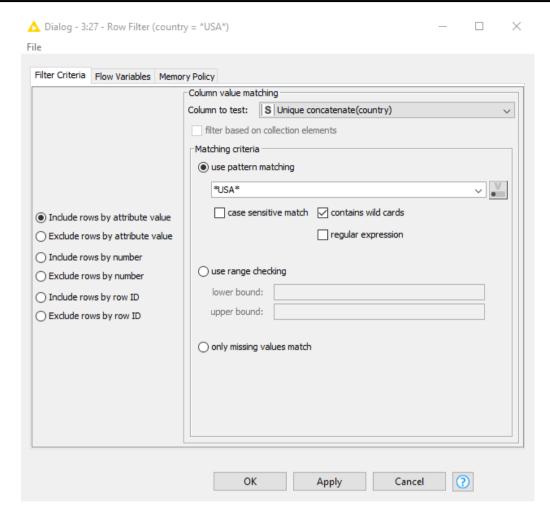




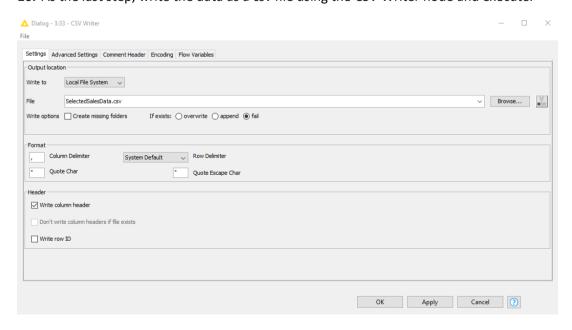


9. To select customers from a specific country, use the Row Filter node and configure as follows:





10. As the last step, write the data as a csv file using the CSV Writer node and execute.





11. The final workflow can be look like this

