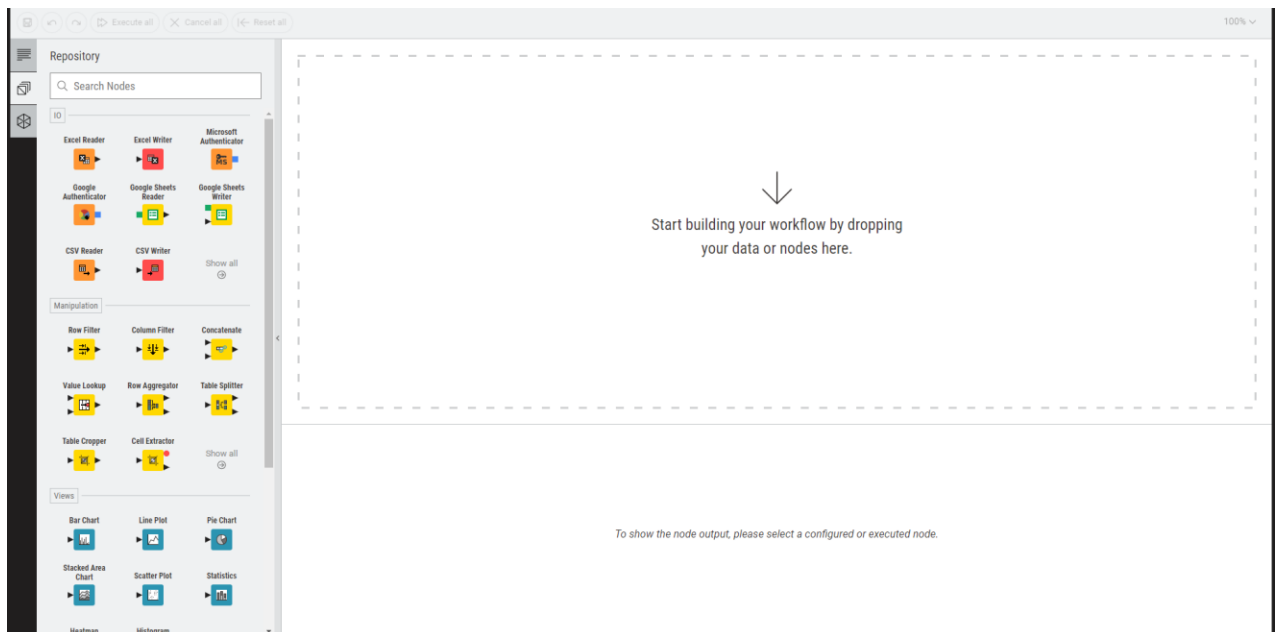
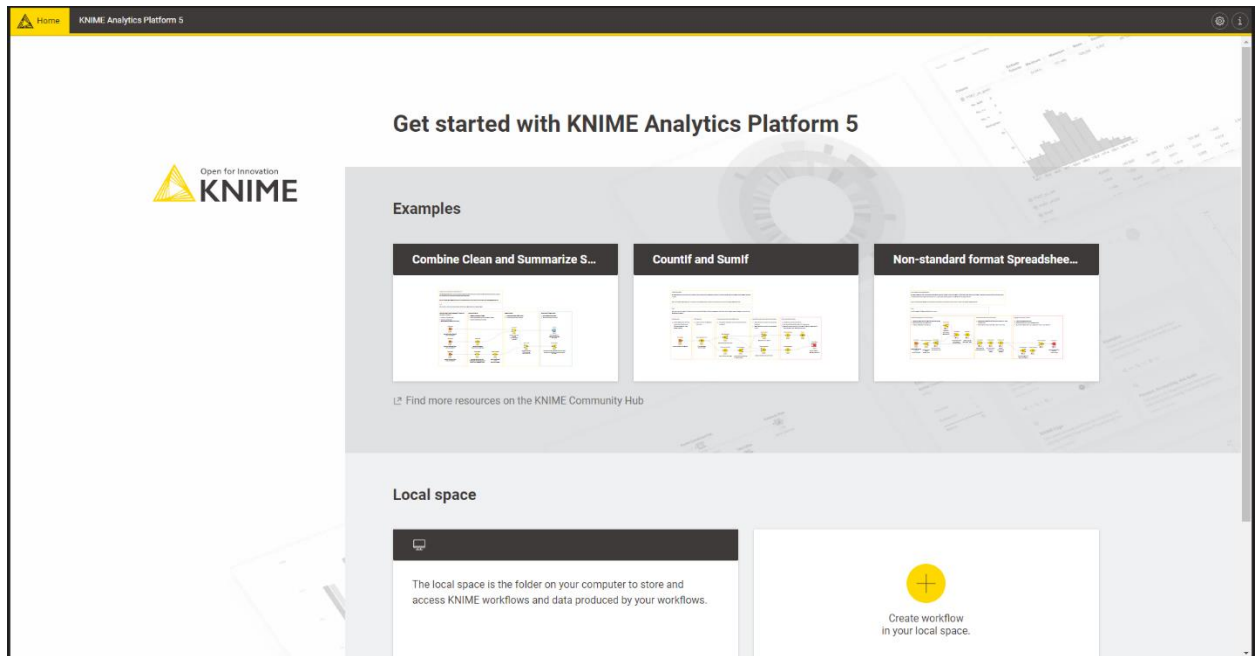
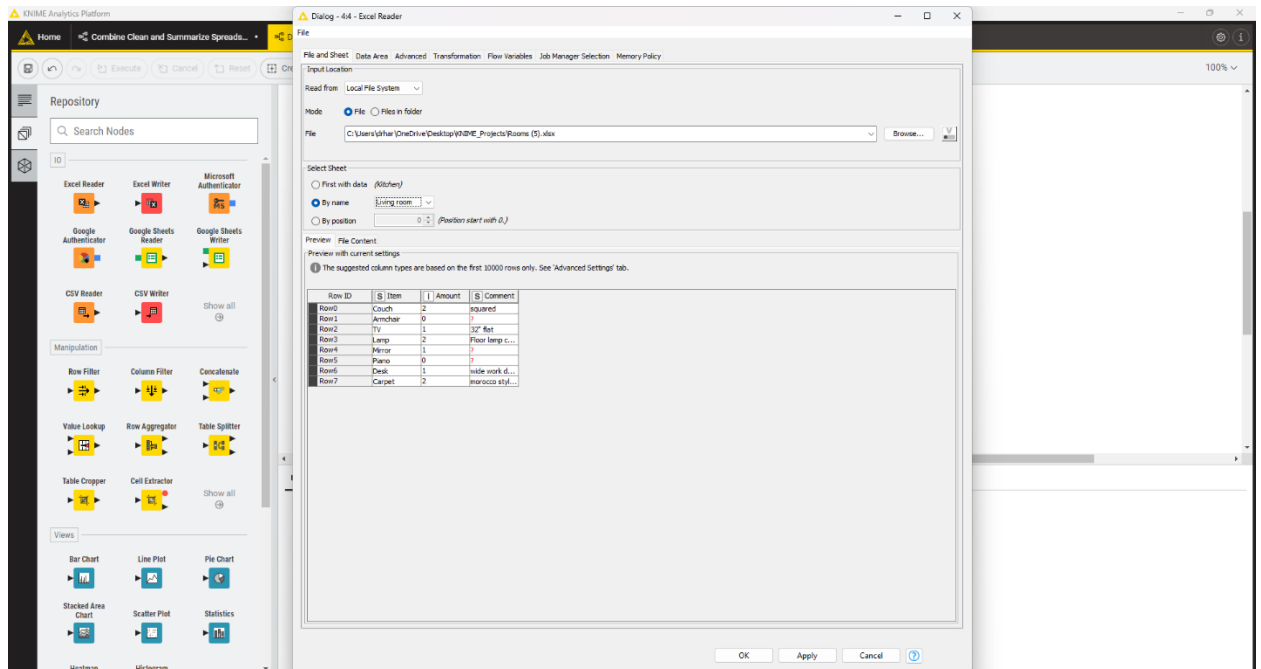
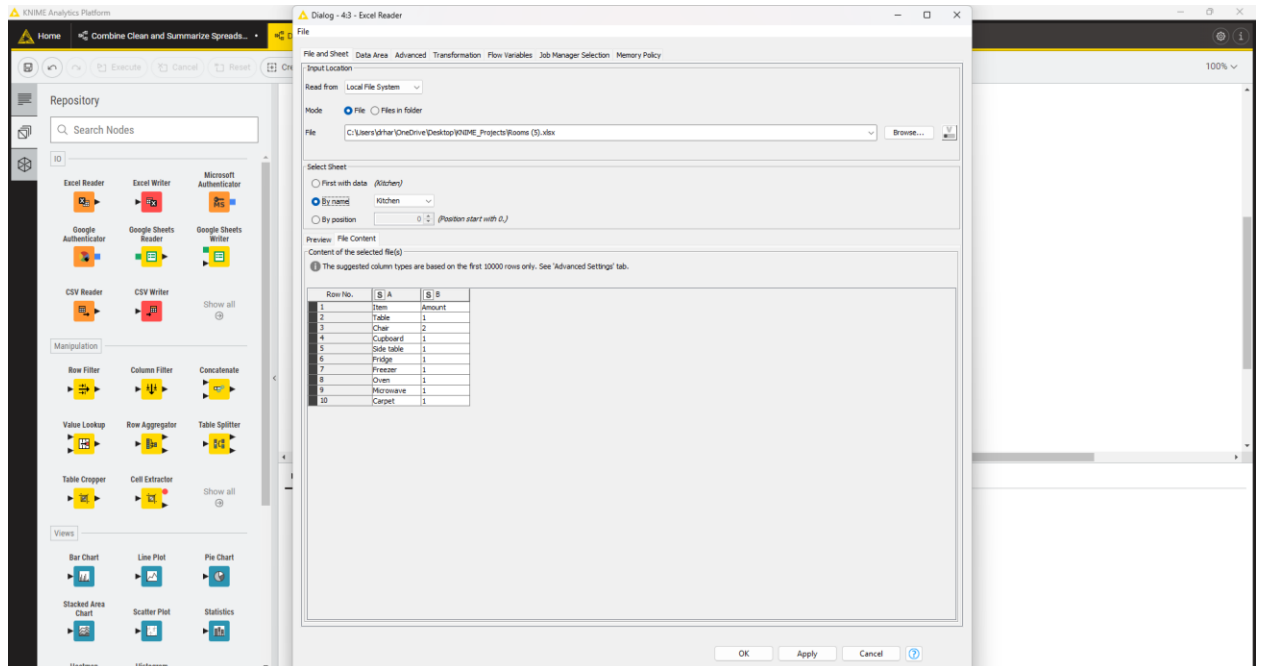


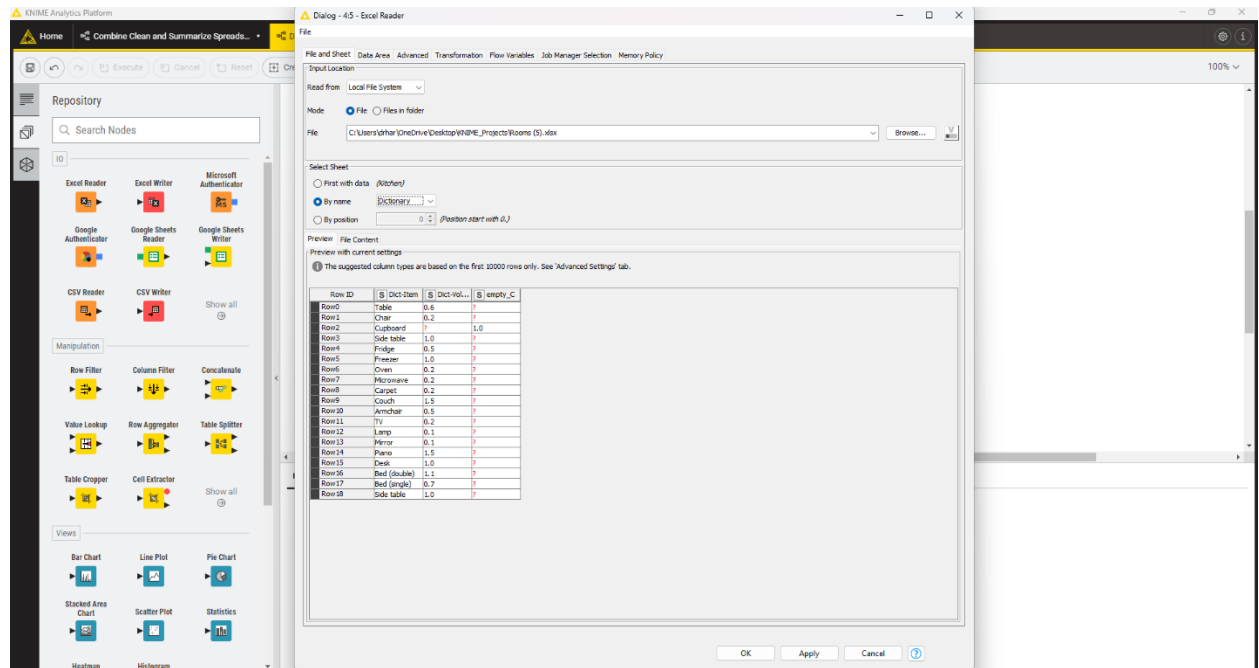
## Introduction: KNIME\_Lab03

- Familiarized myself with an overview of the KNIME Analytics Platform and its visual interface for building workflows.

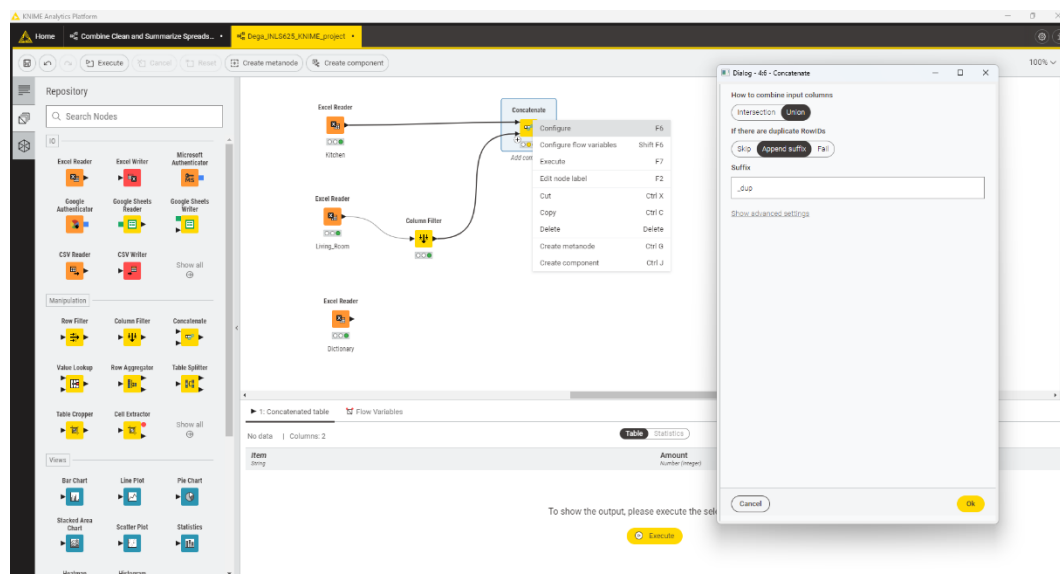


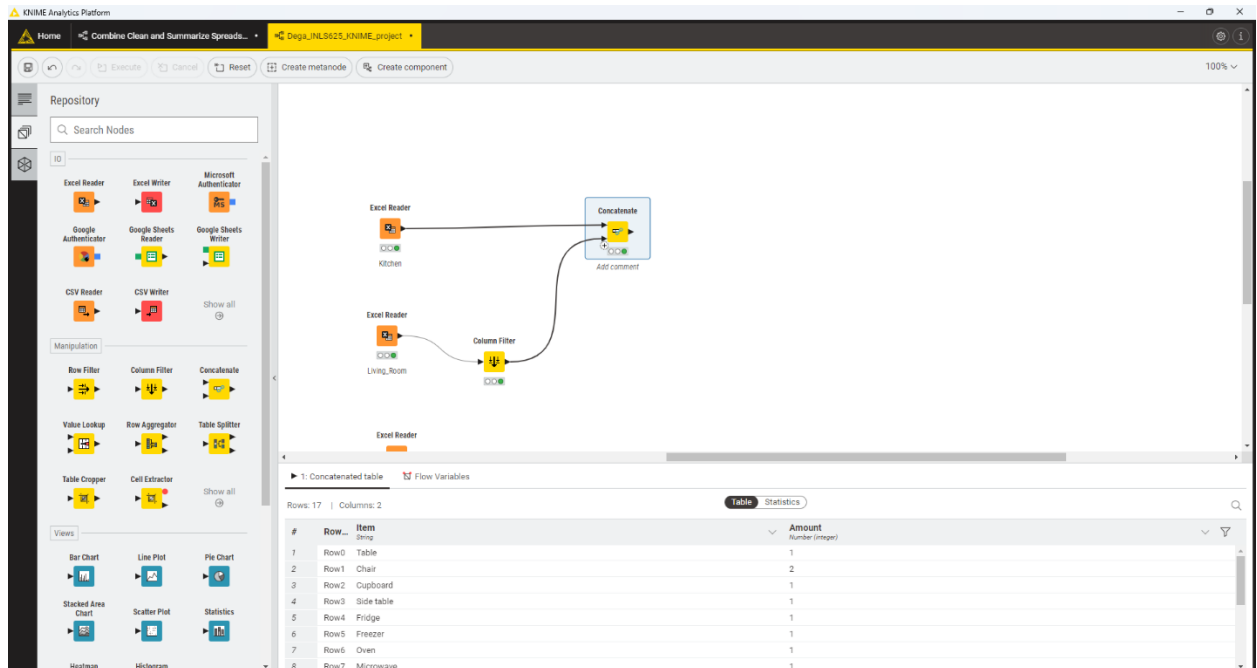
- Step 1:** Downloaded sample CSV data and created a new empty workflow in KNIME workbench.



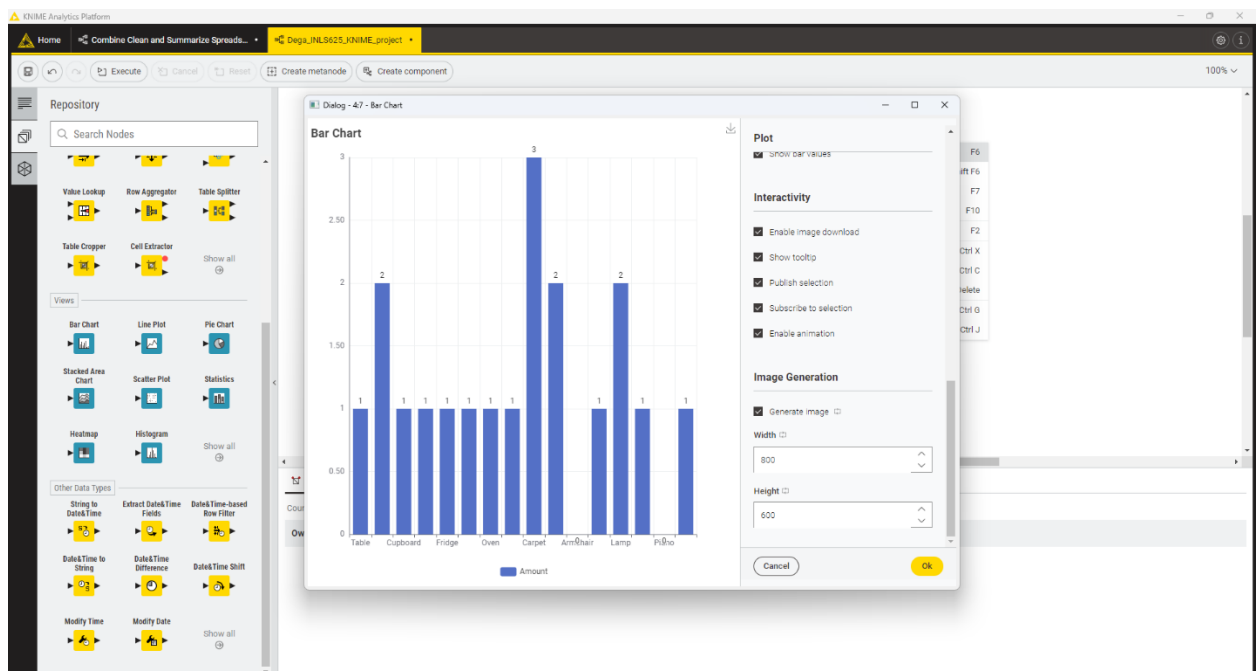


- **Step 2:** Added CSV Reader node and configured it to read in the sample CSV data.
- **Step 3:** Added Column Filter node to filter data based on criteria.
- **Step 4:** Used Concatenate node to combine data from multiple Excel sheets into one data table.



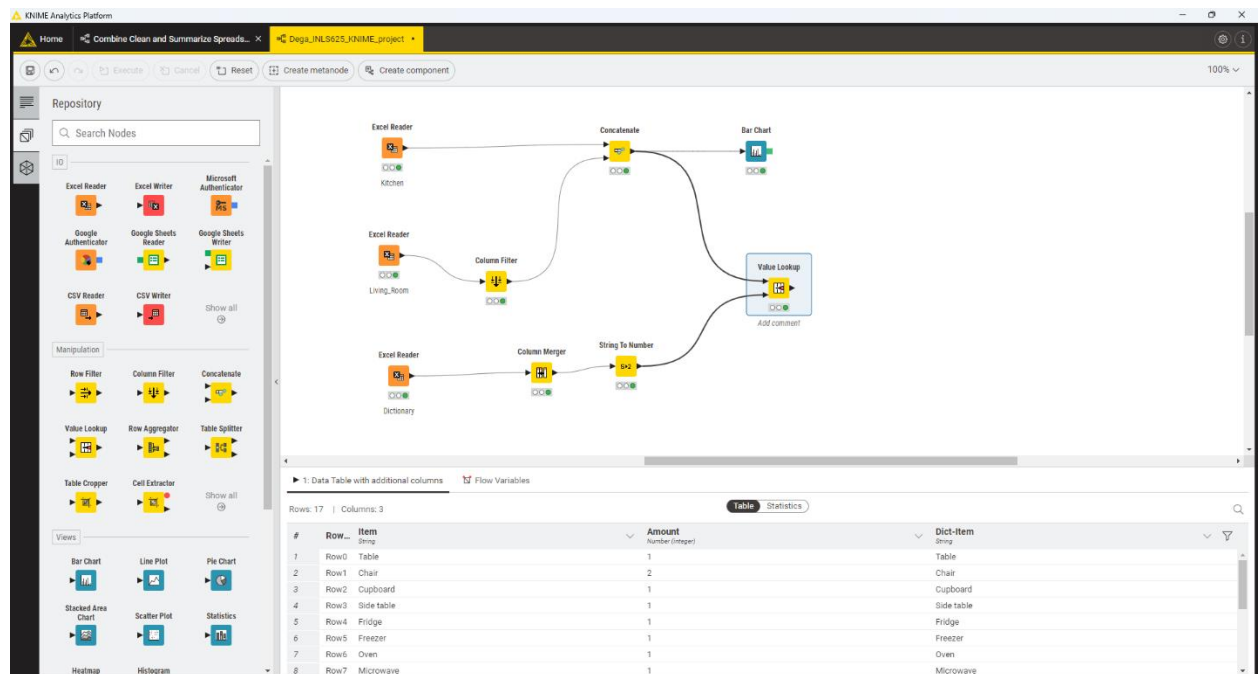
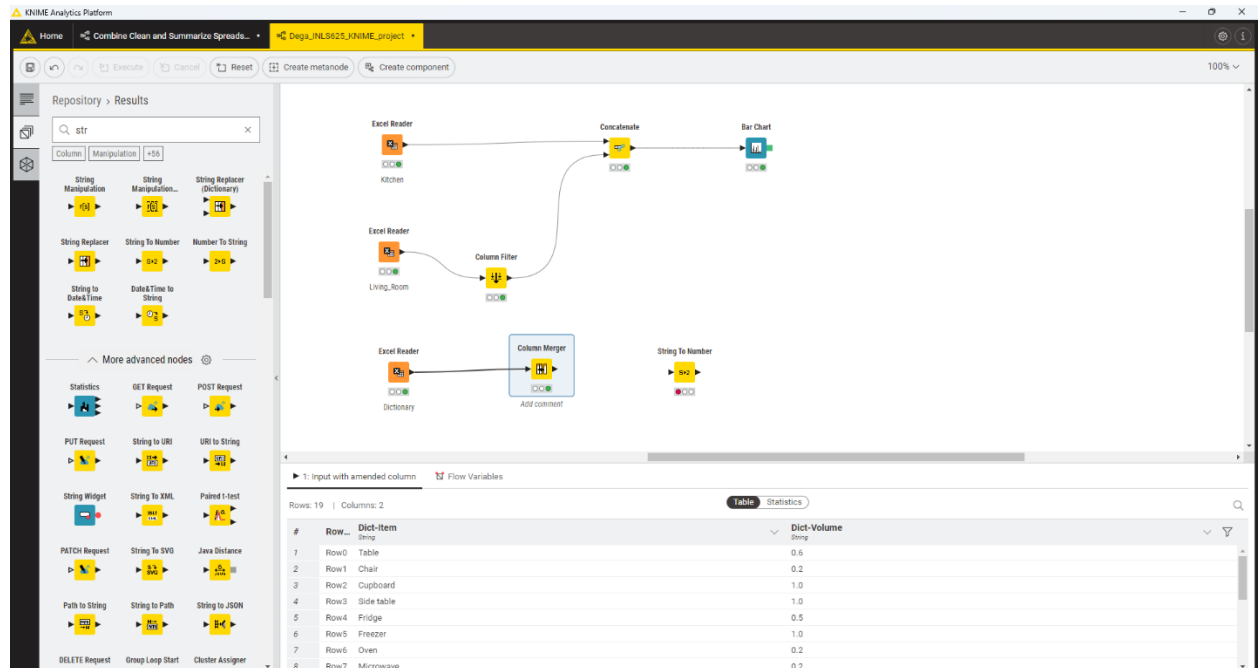


- **Step 5:** Added Bar Chart node to create a visualization of the combined data.

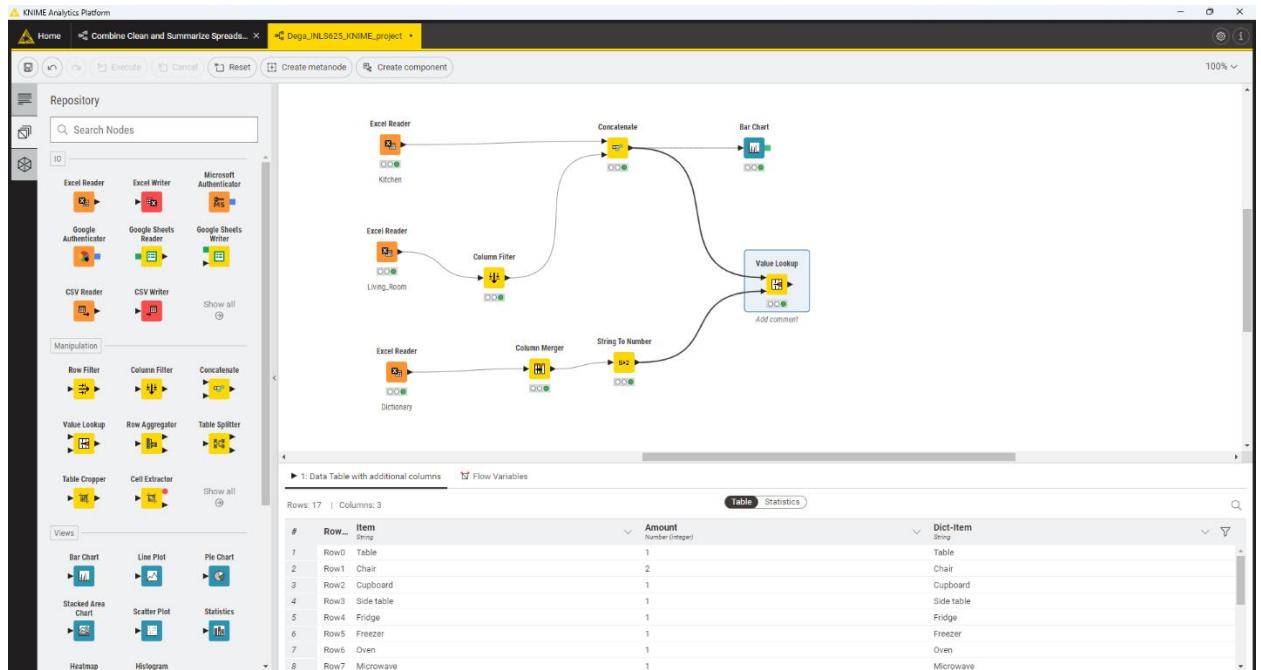


## Advanced-Data Manipulation

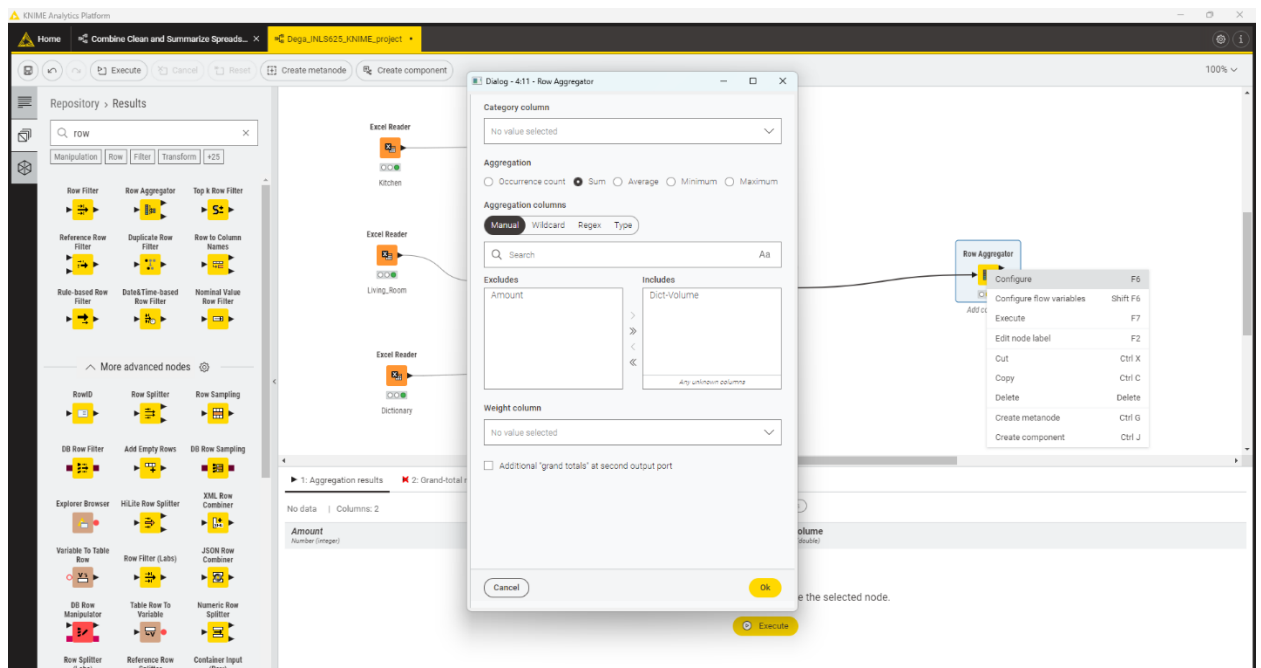
- **Step 6:** Used Column Merger node to merge two columns from dictionary data into one column.
- **Step 7:** Changed column type from string to number using String to Number node.



- **Step 8:** Used Value Lookup node to look up volumes for items based on item names.



- **Step 9:** Used Row Aggregator node to calculate total volume per item and grand total volume.



Output:

