**Alteryx compares to SQL**

Alteryx is simplistic workflow-based environment that allows you to prepare, blend and analyze your data regardless of how many various structured data sources you have included. I am giving comparison for the tools I used in Alteryx Exercise. SQL allows us to blend data as Alteryx does, but SQL along with python or any procedural language gives more flexibility to interconnect operations. Whereas in Alteryx provides simple drag and drop tool to connect between the multiple operations. In Alteryx, with workflow design anyone can easily understand entire program whereas in SQL you need read entire code.

Alteryx is very easy tool to learn compared to SQL

**Accessibility by coders and non-coders, in contrast to Excel and Python.**

Alteryx is very user friendly for compared to Excel and Python.

Alteryx require minimal coding and we can see the flow of data during the process and immediately make adjustments without having to wait for the output. Python perform better in machine learning, API connections, and automation.

Excel struggles with advanced data manipulations and transformations. Tasks like fuzzy matching, address hygiene, missing data, and more all require plugins, formulas or are impossible to do in Excel

**Auditability & traceability. How can Alteryx facilitate trust internally and externally (government auditors) that data processing is reliable and transparent?**

Alteryx has Transparency, Repeatability, Operationalize, Scalability & Advanced Analytics.

Alteryx is auditable at each step, so the data processing is reliable and transparent.

With Input and output button on each tool allows you to trace blended data very easily.

Debugging is very easy compared to SQL and python for large program.