### Automated Column Mapping

Graphs or data-graphs are both ubiquitous and potentially complex structures often involving numerous 1-to-many and many-to-many associations each link represented as an edge or arc between 2 adjacent graph nodes. Mapping a complex data-graph to the flat set of column qualifier/value pairs that make up a cloud data store row is a challenging task, and developers have identified and addressed this complexity in numerous ways on a per-application basis. CloudGraph™ moves the task of column mapping into re-usable infrastructure automating the creation of composite column qualifiers and structuring them for fast access based on available client API filters for a particular data store vendor. Column keys are additionally structured for minimal size using a logical to physical name or “alias” mapping and are designed to be readable and easy to export and render using standard “spreadsheet” oriented tools.