### **Row Scan Optimization**

A distributed data store table may store millions or billions of rows, so avoiding full table scans is obviously of great importance. CloudGraph™ leverages all available scan mechanisms for a particular data store but gives priority to the more performant API. With Apache HBase for example, the partial-key-scan facility is extremely fast and therefore given first priority. All graph queries are transformed into a full or partial-key-scan whenever possible based on available field literals found in a query. Short of that, a fuzzy-row-key filter scan is used, and finally if the expressions comprising a query are sufficiently complex, a filter hierarchy is assembled.