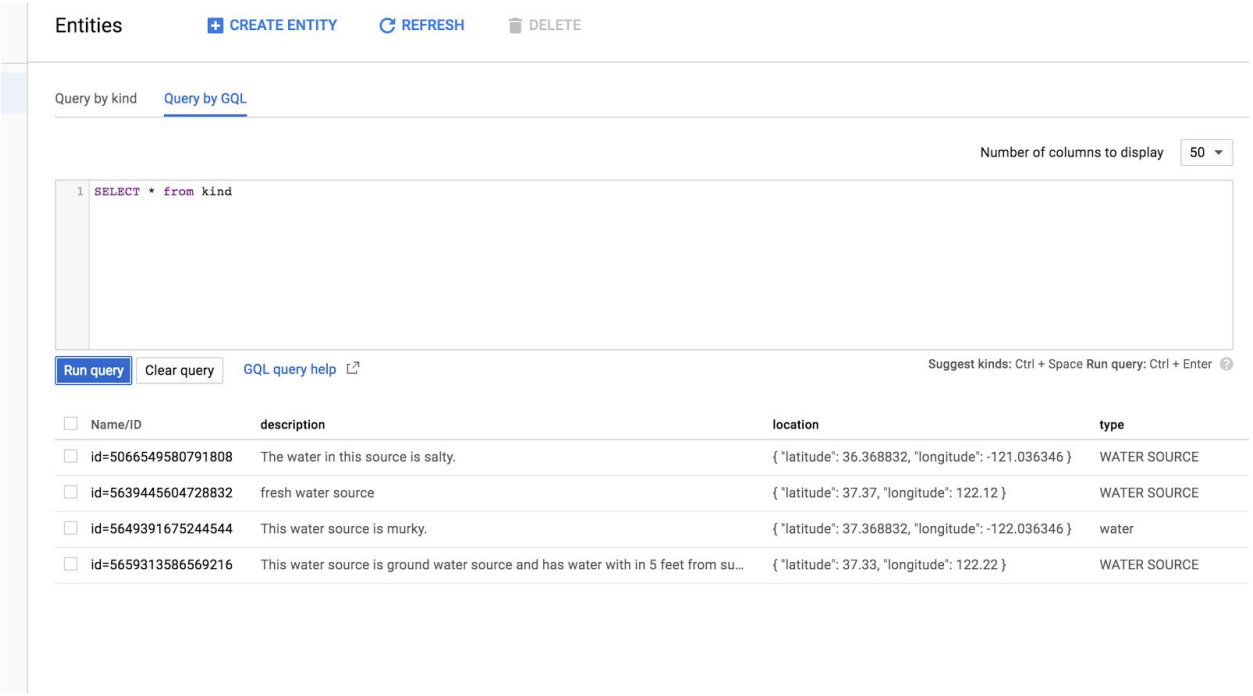
Google Cloud Store backend:
Google Cloud store is scalable store that supports CRUD operations similar to Relation Data base.
It has support for storing **Geographical points** in the form of (latitude, longitude) pair.
It supports Google Query Language (similar to SQL) through which entities(rows) can be queries.

For component 1, I explored the possibility of using Cloud Store to store Geographical locations of various water sources.

Each water source is represented in the form of a record with following fields,

1. Lat, long (latitude and longitude of the water source)
2. Type : water source
3. Description (description of the source if its salt-water source or ground water source)



Screenshot of Cloud Store with entities. Each entity is a location of water source

My deliverable for component 1 was exploratory (and does nt have a code deliverable) and we were able to create geo point records on cloud store and query them.

Hence it does not have an code deliverable.

For component 2, my deliverable includes developing code to get water source (geo points) within a given distance from the backend and display them on an integrated map on the front end.