**Tutorial 3e – latest, Max, Min, Sample, Sum and Top Transform in Apache Beam:**

**Latest:**

* Gets the element with the latest timestamp.

**Max:**

* Gets the element with the maximum value within each aggregation.

**Min:**

* Gets the element with the minimum value within each aggregation.

**Mean:**

* Transforms for computing the arithmetic mean of the elements in a collection, or the mean of the values associated with each key in a collection of key-value pairs.

**Sample:**

* Transforms for taking samples of the elements in a collection, or samples of the values associated with each key in a collection of key-value pairs.

**Sum:**

* Sums all the elements within each aggregation.

**Top:**

* Transforms for finding the largest (or smallest) set of elements in a collection, or the largest (or smallest) set of values associated with each key in a collection of key-value pairs.

**Resources:**

* <https://beam.apache.org/documentation/transforms/python/aggregation/latest/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/max/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/min/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/mean/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/sample/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/sum/>
* <https://beam.apache.org/documentation/transforms/python/aggregation/top/>