For a complex real-time Apache Storm topology I need aggregates of my data (stored in CassandraDB) for some computation steps. So far the data is queried when needed with CQL (Cassandra Query Language) and aggregated in a Storm bolt. That is a bit slow, so we want to have the data needed for the aggregation cached. Below can be a solution.

* Put the data needed in an indexed Ignite Cache and sliding-window-query it from Storm. In this case we would only need one Cache and use different queries, depending on the aggregation. In-memory indexed SQL in Ignite would be faster than Cassandra CQL queries. Apache Ignite is ANSI-99 SQL compatible, so you should be able to do all sorts of aggregations, joins, order by, group by, etc.

<https://ignite.apache.org/usecases.html>