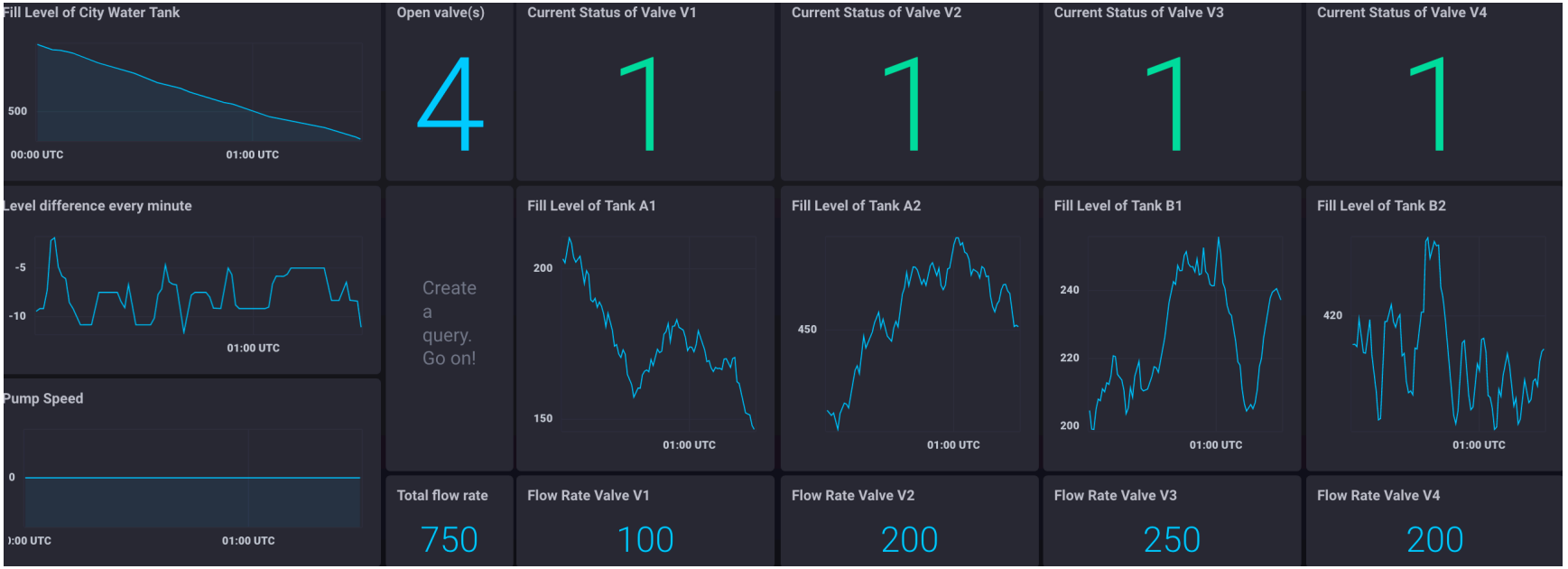
Requirements

In the selected time range, display:

The fill level of the city water tank ☆ *Goals: range, filter*	The number of open valve ☆☆☆☆ *Goals: last* *HINT: group, sum*	The most recent state of each valve. Use a green “1” to represent an open valve and a red “0” when is closed ☆☆☆ *Goals: last, custom function*
The difference between the average water levels in two consecutive windows of one minute. ☆☆☆☆ *Goals: join, aggregateWindow, map* *HINT: timeShift*		The fill level of each tank down sampled to 1 min ☆☆ *Goals: aggregateWindow*
The speed of the pump that refills the city water tank ☆ *Goals: range, filter*	The total flow rate from ☆☆☆☆ *Goals: last* *HINT: group, sum*	The flow rate of each valve ☆☆ *Goals: last*

Test cases

Stop: 2019-10-01 01:**30**:00.000 UTC



Stop: 2019-10-01 01:**40**:00.000 UTC