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 sum of the level of the 4 Tanks A1, A2, B1 and B2 *Goals:aggregate Window, map, and pivot*	**GAIN INDEPENDENCE** **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* ☆☆

Requirements

Test cases

Fill Level of City Water Tank
500
-01 02:00:00 GMT+2

Open valve(s)
4

Current Status of Valve V1
1

Current Status of Valve V2
1

Current Status of Valve V3
1

Current Status of Valve V4
1

Level difference every minute
-5
-10
-01 02:00:00 GMT+2

Total Tanks' Levels
1.3k
1.25k
0-01 02:00:00 GMT+2

Fill Level of Tank A1
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank A2
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank B1
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank B2
500
400
300
200
100
0
-01 02:00:00 GMT+2

Pump Speed
0
I 02:00:00 GMT+2

Total flow rate
750

Flow Rate Valve V1
100

Flow Rate Valve V2
200

Flow Rate Valve V3
250

Flow Rate Valve V4
200

Fill Level of City Water Tank
500
-01 02:00:00 GMT+2

Open valve(s)
1

Current Status of Valve V1
1

Current Status of Valve V2
0

Current Status of Valve V3
0

Current Status of Valve V4
0

Level difference every minute
0
-5
-10
-01 02:00:00 GMT+2

Total Tanks' Levels
1.3k
1.25k
0-01 02:00:00 GMT+2

Fill Level of Tank A1
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank A2
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank B1
500
400
300
200
100
0
-01 02:00:00 GMT+2

Fill Level of Tank B2
500
400
300
200
100
0
-01 02:00:00 GMT+2

Pump Speed
200
100
0
-01 02:00:00 GMT+2

Total flow rate
100

Flow Rate Valve V1
100

Flow Rate Valve V2
0

Flow Rate Valve V3
0

Flow Rate Valve V4
0