Smart Cities Hackathon Tier 2 Challenge 9

Tier 2: Challenge 9

Tier 2 Challenge 9: InfluxDB and Grafana Dashboard

This challenge will see you creating an InfluxQL statement and building an integration between InfluxDB and Grafana.
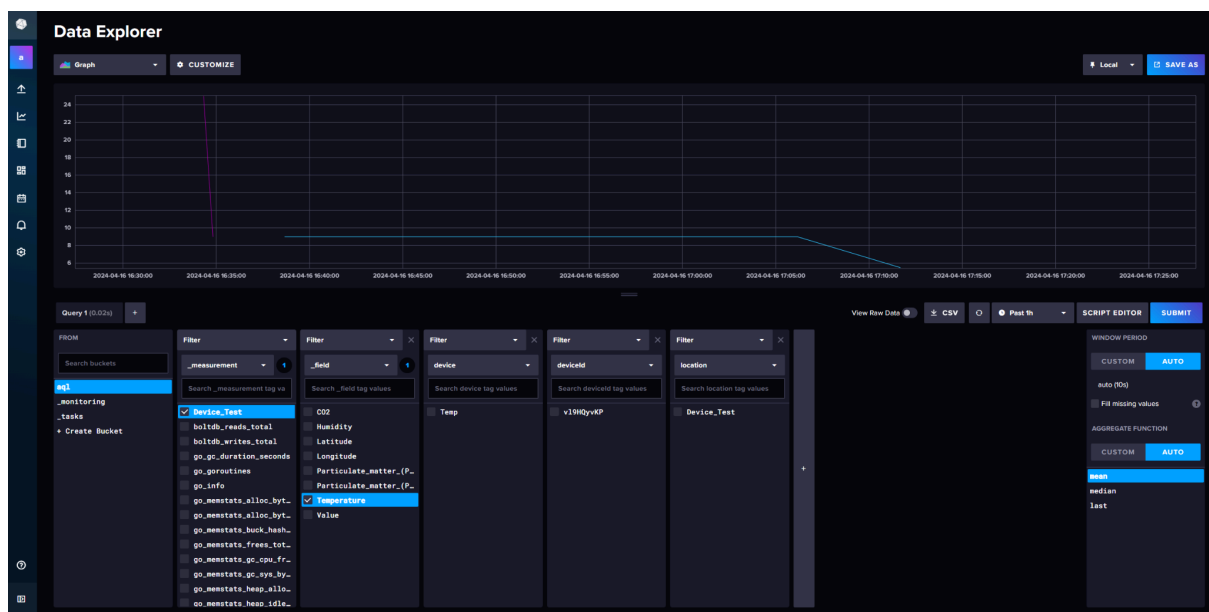
Step 1

Navigate to influxdb.core.aql.com and log on with your team credentials.

Step 2

Select the data explorer from the left-hand menu.

Step 3

The bottom pane works as a hierarchy. First, select the hackathon organisation and you can then select the filters. Select your team, then the device, then lastly the sensor value.

Step 4

The time filters are on the far right and extend these to include the period with which you have uploaded a reading.

Step 5

Select the "View Raw Data" step to see all the readings that you have uploaded.

Step 6

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Select the script editor and you will see the Flux statement. Copy this statement and ask your Tier 2 AI Assistant to explain it. We will use this statement in a future step.

Step 7

Navigate to grafana.core.aql.com, and log on with your team credentials.

Step 8

Select "Connections" from the left-hand menu.

Step 9

Select "Add New Connection" and then filter to InfluxDB

Enter the following details:

Url: Supplied in your getting started documentation
Auth: BasisAuth

Organisation: Your Team number for example team1
Bucket: Your Bucket Name
Token: Your InfluxDB Token created in the earlier task (You can copy it from the integrations in core.aql.com)

Step 10

Select "Save" and test. If everything works okay you should see a green tick.
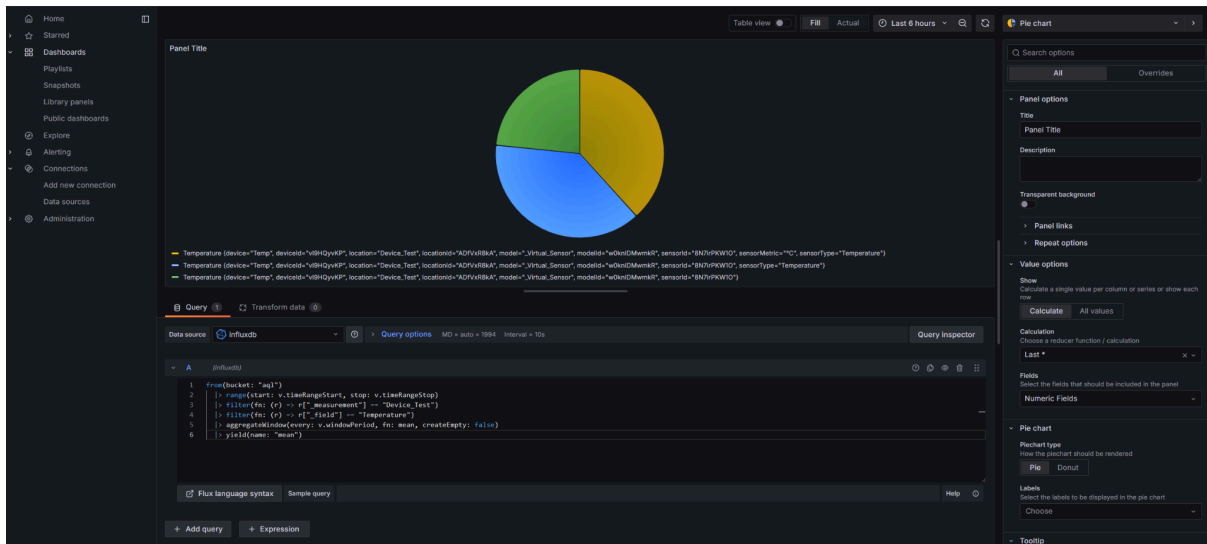
Useful Video

https://www.youtube.com/watch?v=Jszd7zrl-_U

Step 11

Select "Dashboards" and select "New". Select "Add Visualisation" and select the connection you set up earlier.
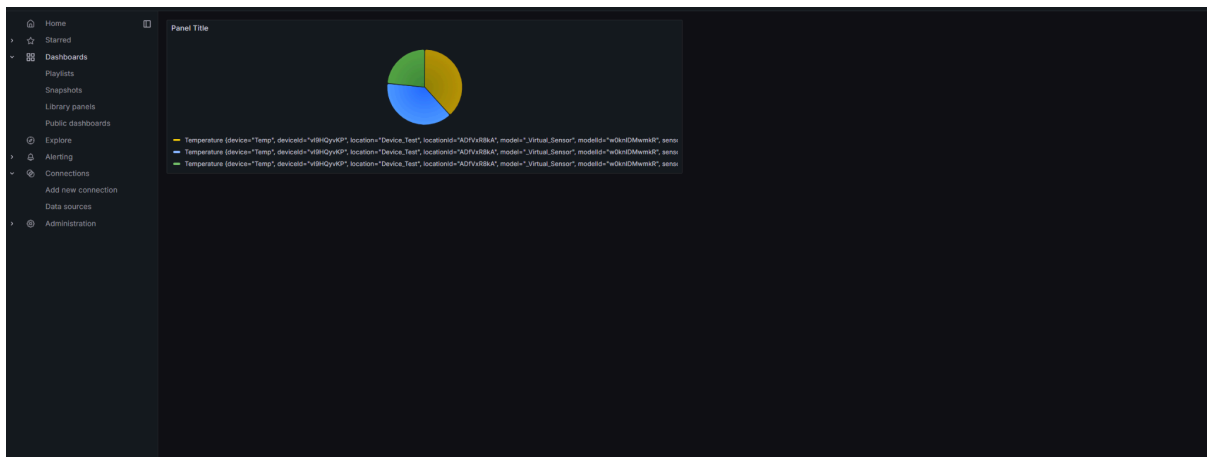
Step 12

Paste the Flux Statement created earlier and the data should be displayed. You can now experiment and change the chart type, and add other visualisations.

Now try to create a complex dashboard of differing readings and chart types. For any hints and tips you can ask the Hackathon AI Assistant to help.

You have now completed this challenge. Well done!