

mec



GEDISTRIBUEERDE GEGEVENSVERWERKING

(E761040)

LAB SESSION 04 - Time Series DB PROJECT

05/05/2025



<u>CatTracker</u>





User wants to know where the cat has been, scoped on the hour instead of all data points.

~ Last known location of the cat, per hour.



<u>CatTracker</u>

Simplified data structure, don't use the csv from previous lab.

timestamp	identifier	eventid	visible	locationlong	locationlat	sensortype
2016-07-12T00:05:12.000000Z	Alice	1804624983	true	119.499161	-35.702988	gps
2016-07-12T00:15:12.000000Z	Bob	1804624983	true	19.499161	-35.702988	gps

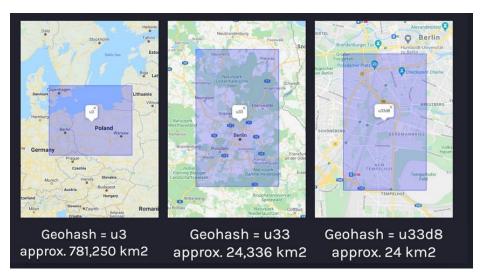


CatTracker: geohash

QuestDB uses geohash for geospatial data.

Transform lat/long into geohash

timestamp	identifier	geohash
12T00:00:00.000000Z	Alice	1011001
12T00:00:00.000000Z	Bob	1001000
12T01:00:00.000000Z	Bob	1001000
12T12:00:00.000000Z	Bob	1011001





CatTracker

- 1. Design table scheme
- 2. Ingest data into QuestDB with Kafka Connect
- 3. Creates views / queries for the use case

Use case:

Query the last whereabouts of a pet at each hour. (complete history not just the last hour!)



<u>CatTracker</u>

Submit a README.md file which describes step by step how to recreate your solution.

Step 1: Table scheme CREATE TABLE ...

Step 2: Kafka Connect config curl -XPUT http://...



Project

https://github.ugent.be/GDV/project-time-series-db

Deadline 11/05/2025 23:59

Tag @sborny in Github issues

