

OW

keep

shups Data Updated

Cache ?

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My Work

Caching Mashups Data

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Fact : Data are dynamic

Problem : data may become obsolete
cache

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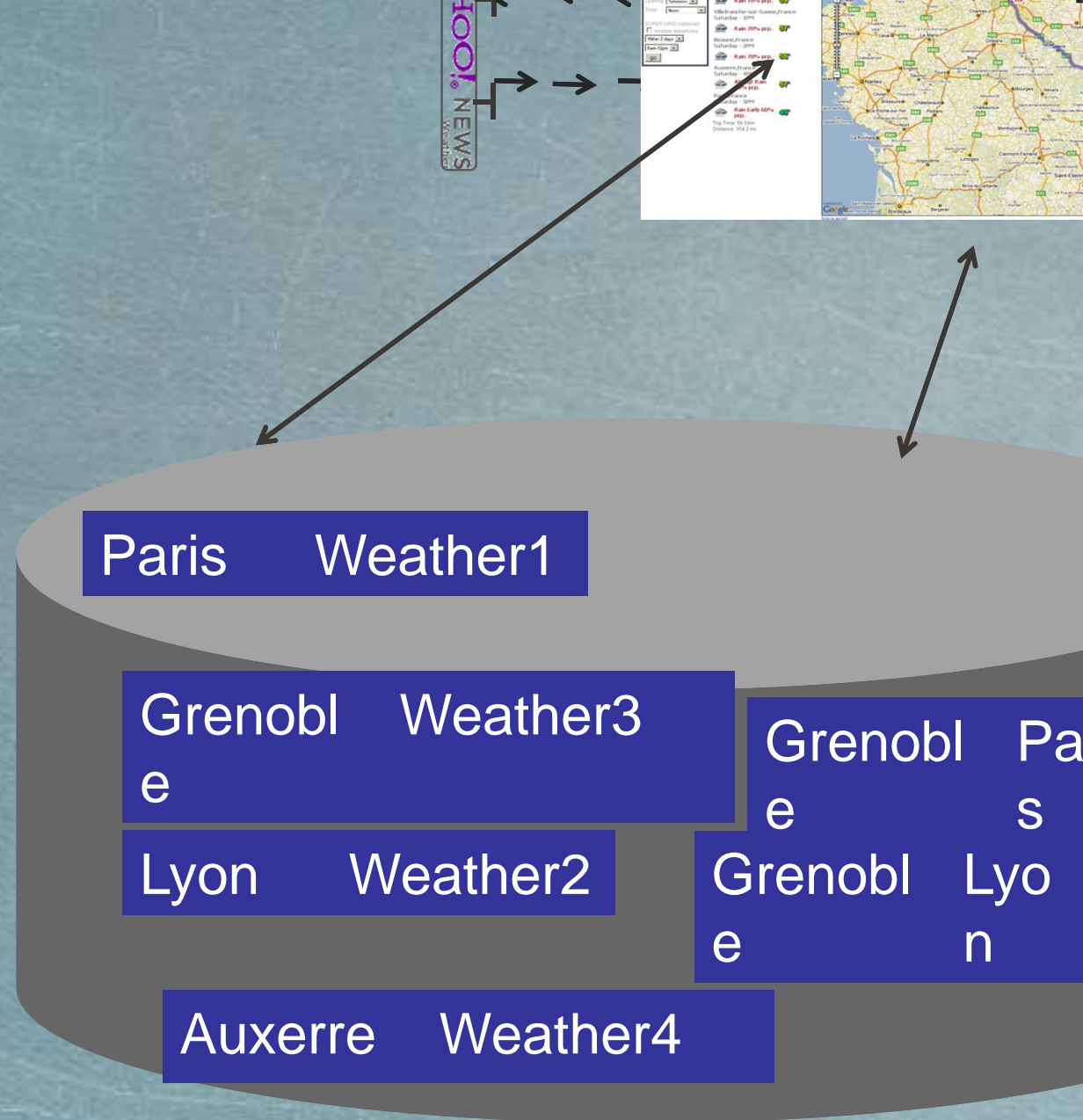
Question

How to update cached data?

4

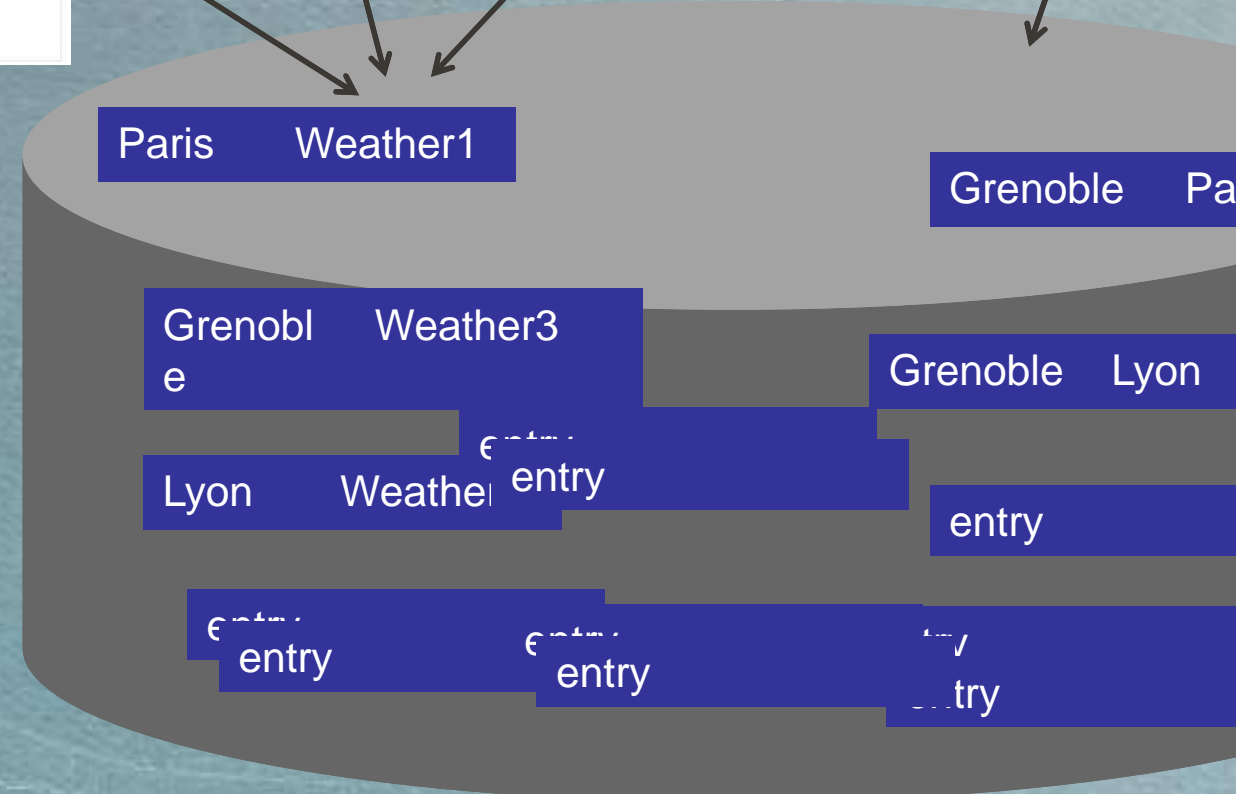
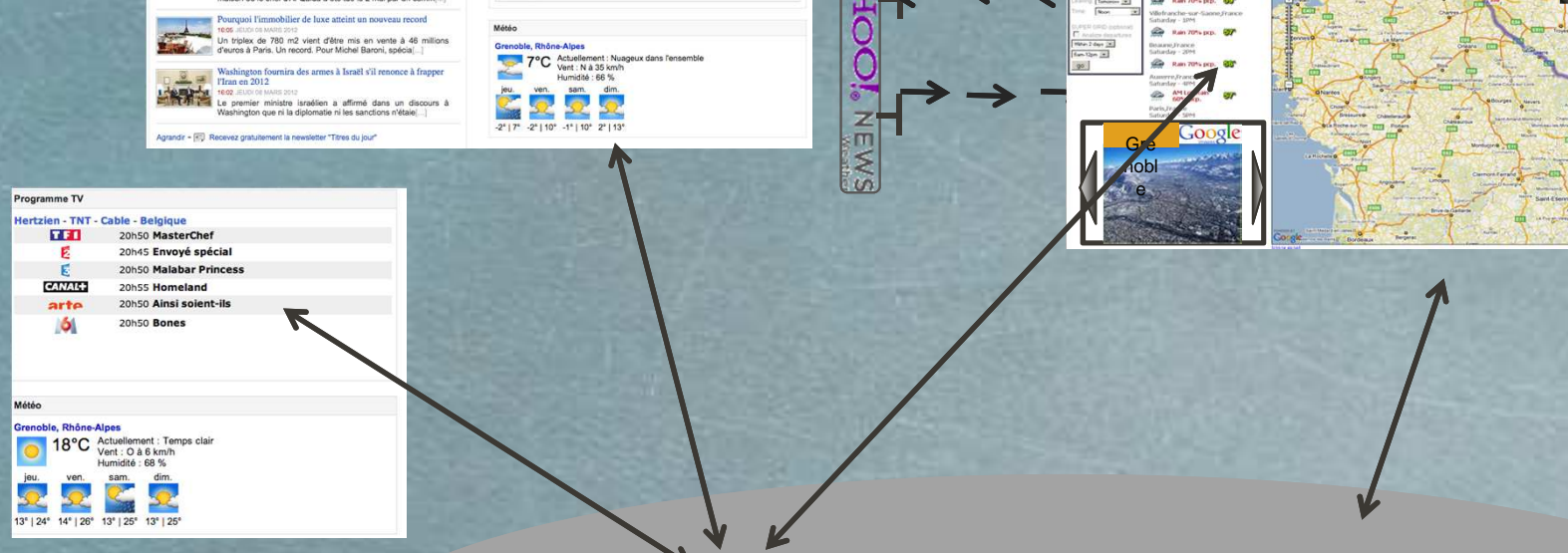
My Solution

thing shups a



- Ensure mashups data availability
- Cache organized as a set of entries
- Each entry corresponds to a query and

Things chups a



Real World :
Many entries are created and exploited while execu
mashups

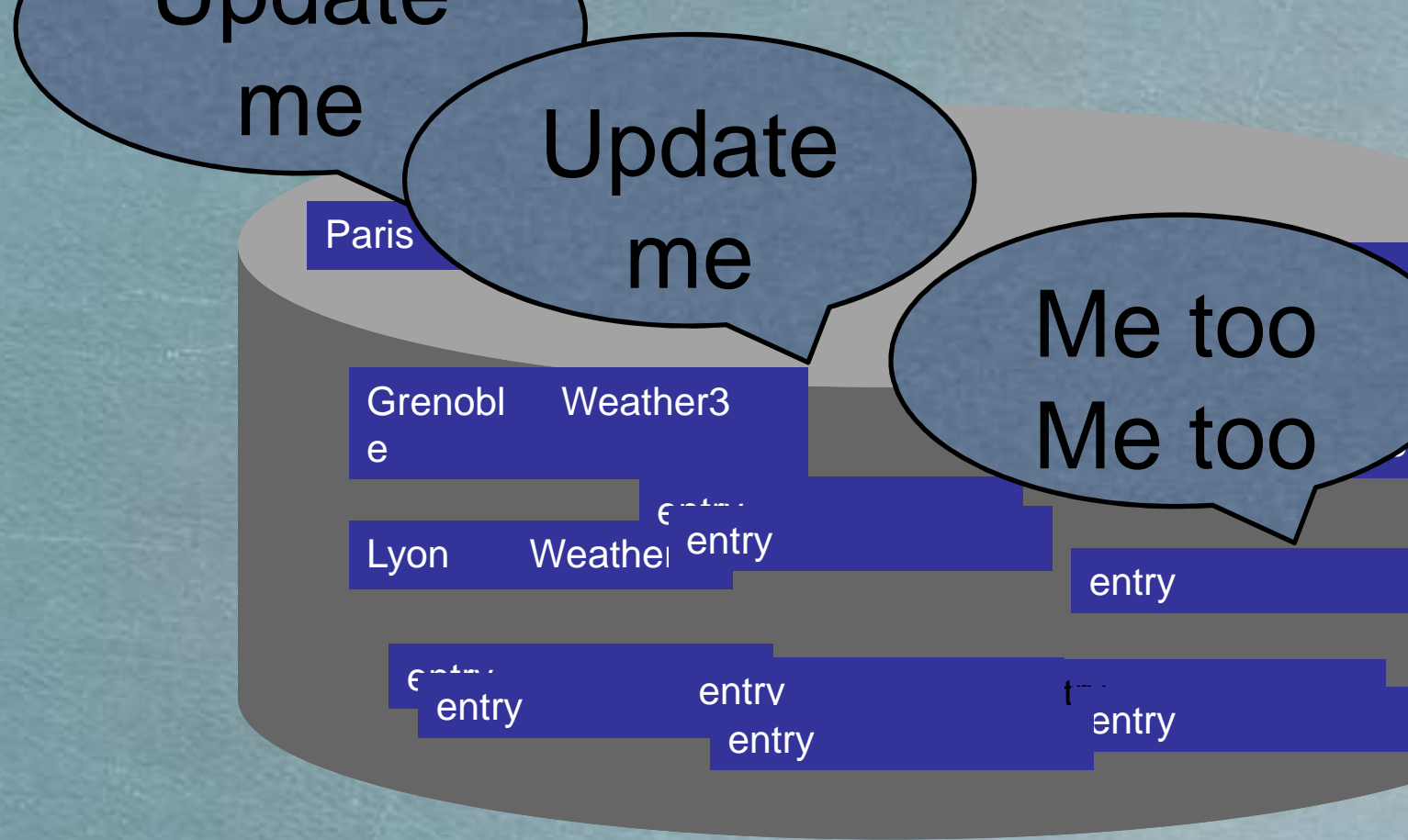
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Paris Weather

Update Mechanism

- Data are dynamic (like weather data)
- Each entry has a limited validity time

How to update entries ?



The best way : when an entry is obsolete manager runs a process to update it

But

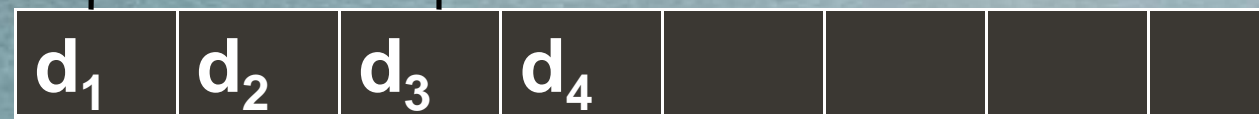
Entry ->Timer -> Thread

10000 entries -> 10000 Threads !!!!

My Solution

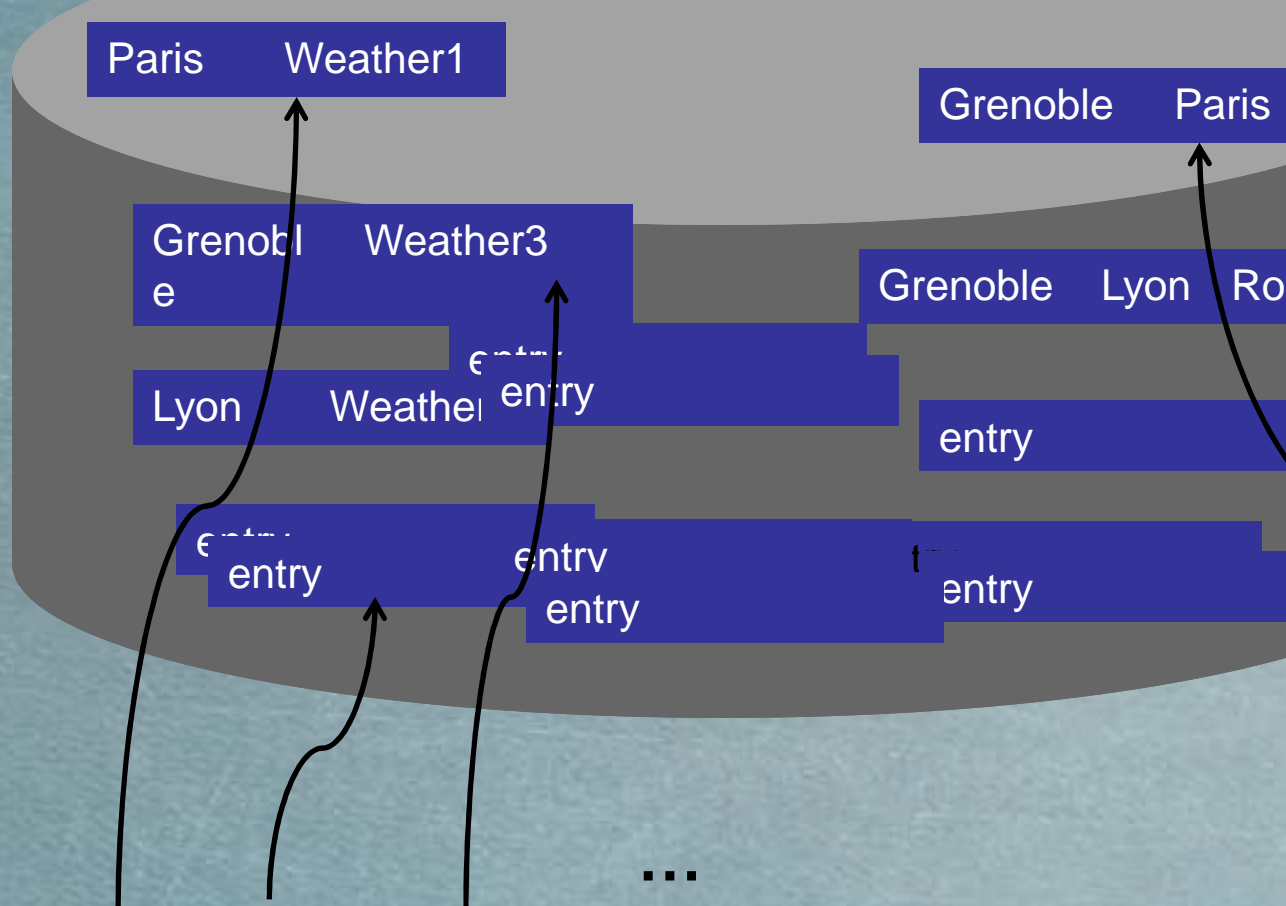
Incremental Update mechanism

Sorted List



$$d_1 < d_2 < d_3 < d_4 < \dots$$

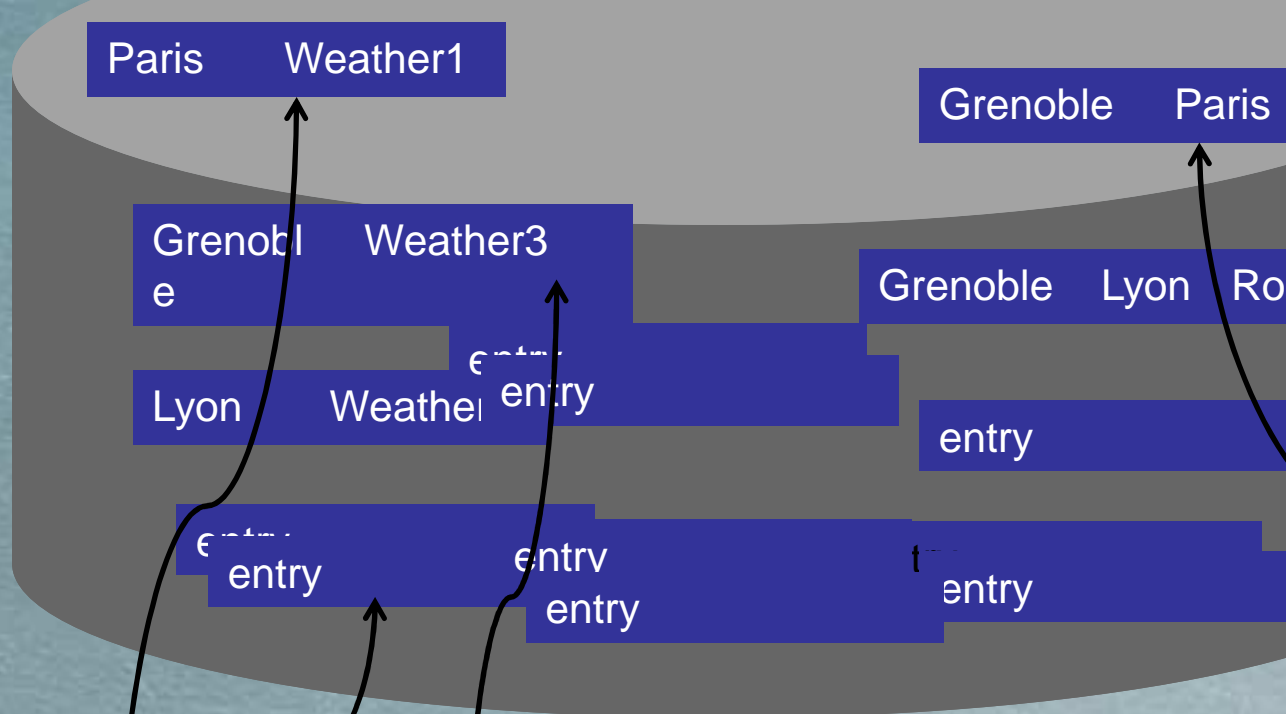
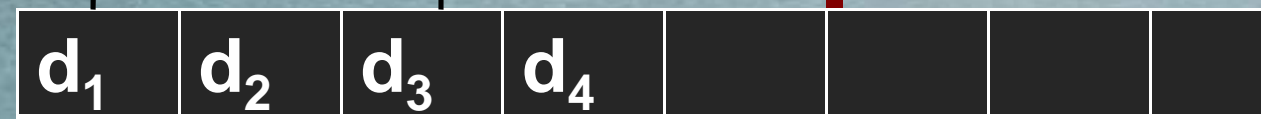
Entries references sorted list according to expiration date



My Solution

Incremental Update mechanism

Sorted List



Now time

Update Manager scans periodically the list if there are entries to be updated

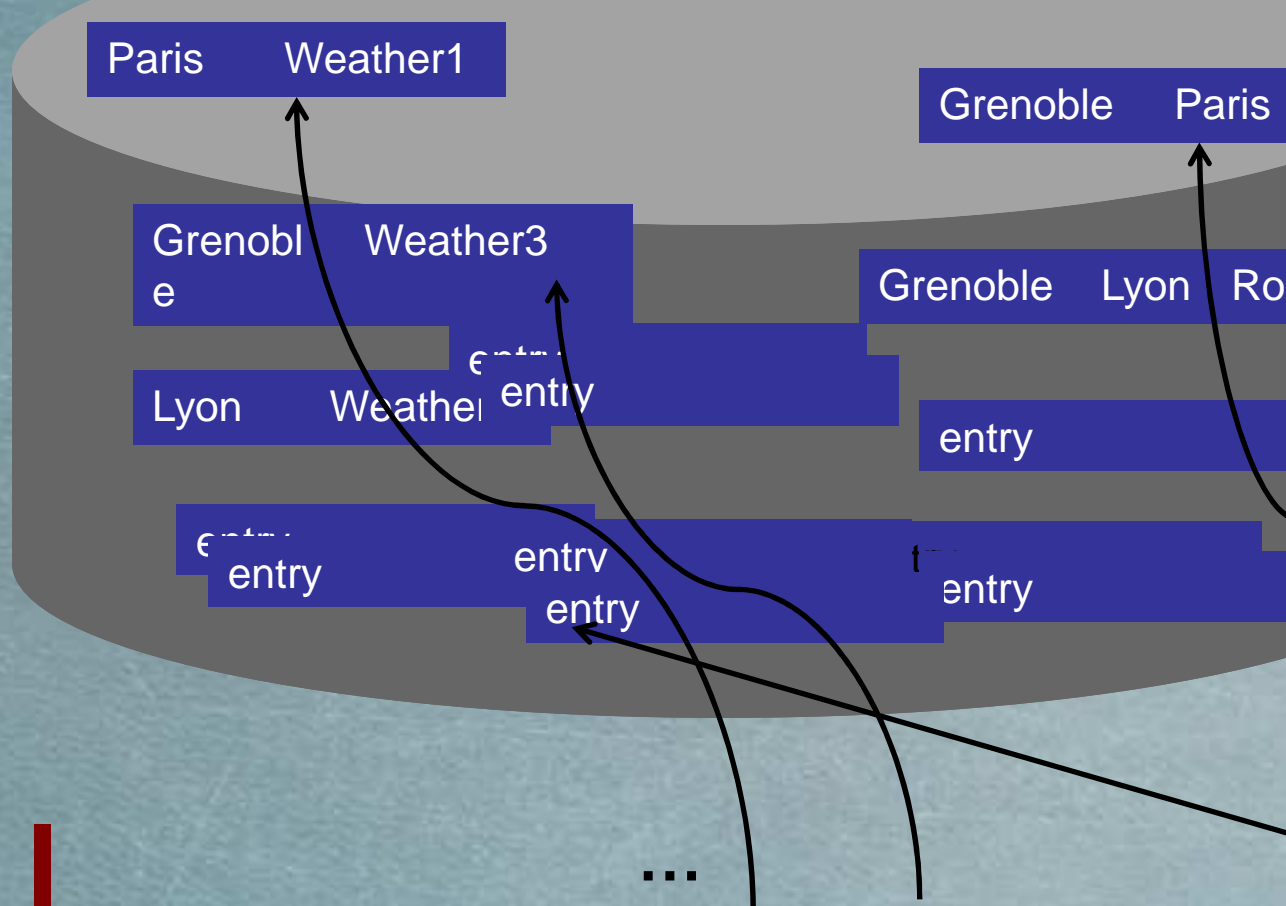
My Solution

Incremental Update mechanism

Sorted List



Now time



Update Manager scans periodically the list if there are entries to be updated

THANKS

For your attention

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