Facility Architecture - Feature #1786

Consume events and sync data with cache

2025-07-08 02:49 - Tab Tu

Status:	Closed	**Start date:**	2024-06-22
Priority:	Normal	**Due date:**	2024-09-22
Assignee:	Jennifer Jiang	**% Done:**	100%
Category:		**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour

Description

We should focus on the 2 categories listed below:

listing data -> property_id(MLS) in cache -> partitioning by date in db

- When extracting/downloading listing data from VOW/DDF/IDX or any data source, we should standardize from input. Columns on ORM should be structured in cache, and any other feed should be saved as a JSON doc via CLOB/BLOB type.
- Create partitioning on loading date for all properties. Searching on the cache or database will always be accompanied by a date range to have a better performance.
- Cache should be updated by the downloading schedule. e.g. VOW per 2 hours, DDF by daily, IDX by daily...

customer trainning data -> topics in cache -> vector result in db

- LLM based data can be saved into different database. (PostgreSQL)
- A DWH layer should be involved.
- Create cache topics by format: custom_id + custom_topic + training_date.
- Outdated topics should be removed from cache.

Subtasks:

Feature # 1807: Setup cache refresh schedule	**Closed**
Feature # 1808: Ingest customer trainning database (LLM)	**Closed**
Feature # 1809: Standardlize keys for listing input for all sources	**Closed**
Feature # 1810: Setup cache schedule and health monitor	**Closed**
Feature # 1811: Link centre DWH layer to redis cache	**Closed**
Feature # 1812: Stop ORM	**Closed**