1. **Function Overview**

This is a caching layer implementation for standalone java application with following assumptions

* Cache should be globally accessible throughout the JVM
* Cache client will access cached objects by providing table name & primary key value
* All tables have integer primary key
* Initially three tables are required to be cached, REF\_COUNTRY, REF\_CURRENCY & REF\_HOLIDAY
* Cache should have provision to support more tables if required

DAO layers are not implemented.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | |
|  | **REF\_COUNTRY** |  | |  |
|  | **Column Name** | **Pk** | **Data Type** |  | |
|  | COUNTRY\_ID | 1 | NUMBER (9) |  | |
|  | COUNTRY\_CD |  | VARCHAR2 (20 Byte) |  | |
|  | COUNTRY\_NAME |  | VARCHAR2 (50 Byte) |  | |
|  | STATUS\_IND |  | NUMBER (3) |  | |
|  | LAST\_MODIFY\_DT |  | DATE |  | |
|  | MODIFY\_PERSON\_NUM |  | NUMBER (9) |  | |
|  |  |  |  |  | |
|  | **REF\_CURRENCY** |  | |  |
|  | **Column Name** | **Pk** | **Data Type** |  | |
|  | CURR\_ID | 1 | NUMBER (9) |  | |
|  | CURR\_CD |  | VARCHAR2 (3 Byte) |  | |
|  | CURR\_NAME |  | VARCHAR2 (50 Byte) |  | |
|  | CURRENCY\_SYMBOL |  | VARCHAR2 (5 Byte) |  | |
|  | STATUS\_IND |  | NUMBER (3) |  | |
|  | LAST\_MODIFY\_DT |  | DATE |  | |
|  | MODIFY\_PERSON\_NUM |  | NUMBER (9) |  | |
|  |  |  |  |  | |
|  | **REF\_HOLIDAY** |  | |  |
|  | **Column Name** | **Pk** | **Data Type** |  | |
|  | HOLIDAY\_ID | 1 | NUMBER (9) |  | |
|  | HOLIDAY\_CD |  | VARCHAR2 (30 Byte) |  | |
|  | HOLIDAY\_NAME |  | VARCHAR2 (50 Byte) |  | |
|  | HOLIDAY\_DT |  | DATE |  | |
|  | STATUS\_IND |  | NUMBER (3) |  | |
|  | LAST\_MODIFY\_DT |  | DATE |  | |
|  | MODIFY\_PERSON\_NUM |  | NUMBER (9) |  | |

1. **Basic Specification**
   1. **Usage**

Following are the steps to use the cache

1. Clone the git repository:

Git clone https://github.com/akash007ganga/CacheUsingJava.git

1. Build repository using command : mvn clean install package

Build step will run com.test.TestCache which shows creation and usage of the cache.

Log file location is : %temp%/ cacheimplementation.log

* 1. **Future Extension**

If caching needs for more tables, following are the step to implement

1. Include the table name in enums.CacheTableName
2. Create the corresponding gen class file for new table same as dao.CountryGen which implements [dao](eclipse-javadoc:%E2%98%82=CacheUsingJava/src%5C/main%5C/java%3Cdao).Cacheable
3. Modify dao.CacheFactory.getCacheTableHandler(CacheTableName tableName) to include new table
4. Use cache same as com.test.TestCache