package com.unresyst;

import java.io.File;

import java.io.FileNotFoundException;

import java.util.List;

import java.io.IOException;

import org.apache.commons.cli2.OptionException;

import org.apache.mahout.cf.taste.common.TasteException;

import org.apache.mahout.cf.taste.impl.model.file.FileDataModel;

import org.apache.mahout.cf.taste.impl.recommender.CachingRecommender;

import org.apache.mahout.cf.taste.impl.recommender.slopeone.SlopeOneRecommender;

import org.apache.mahout.cf.taste.model.DataModel;

import org.apache.mahout.cf.taste.recommender.RecommendedItem;

import org.apache.mahout.cf.taste.impl.common.LongPrimitiveIterator;

public class UnresystBoolRecommend {

public static void main(String... args) throws FileNotFoundException, TasteException, IOException, OptionException {

// create data source (model) - from the csv file

File ratingsFile = new File("datasets/moviesdata.csv");

DataModel model = new FileDataModel(ratingsFile);

// create a simple recommender on our data

CachingRecommender cachingRecommender = new CachingRecommender(new SlopeOneRecommender(model));

// for all users

for (LongPrimitiveIterator it = model.getUserIDs(); it.hasNext();){

long userId = it.nextLong();

// get the recommendations for the user

List<RecommendedItem> recommendations = cachingRecommender.recommend(userId, 10);

// if empty write something

if (recommendations.size() == 0){

System.out.print("User ");

System.out.print(userId);

System.out.println(": no recommendations");

}

// print the list of recommendations for each

for (RecommendedItem recommendedItem : recommendations) {

System.out.print("User ");

System.out.print(userId);

System.out.print(": ");

System.out.println(recommendedItem);

}

}

}

}