```
import pandas as pd
from scipy import sparse
from sklearn.metrics.pairwise import cosine_similarity
ratings=pd.read_csv("dataset.csv",index_col=0)

ratings.fillna(0, inplace=True)
ratings

def standardize(row):
    new_row = (row - row.mean())/(row.max()-row.min())
    return new_row

df_std = ratings.apply(standardize).T
print(df_std)

sparse_df = sparse.csr_matrix(df_std.values)
corrMatrix = pd.DataFrame(cosine_similarity(sparse_df),index=ratings.columns,columns=ratings.
corrMatrix

corrMatrix = ratings.corr(method='pearson')
corrMatrix.head(6)

items = [("Milk",5),(" Rice flour ",1),("Jagger",1)]
similar_scores = pd.DataFrame()
for products,rating in items:
    similar_scores = similar_scores.append(get_similar(products,rating),ignore_index = True)

similar_scores.head(10)

similar_scores.sum().sort_values(ascending=False)
```