Coding Challenge 1 - Product View Analysis

Objective

Write a python (Python 3) code that reads the input data (csv file) and lists down the cumulative count of product view at the Parent Org - > Brand level sorted based on the product view count in descending order.

Output format

The Parent Org with the highest cumulative product view count should be printed first along with its count followed by its brands and cumulative count, then the next Parent Org, cumulative product view count and its brands and cumulative count and so on

Eg:

ParentOrg1 : Cumulative Product View Count

- Brand1 : Cumulative product view count
- Brand2 : Cumulative product view count
- BrandN : Cumulative product view count

ParentOrg2 : Cumulative product view count

- Brand1 : Cumulative product view count
- Brand2 : Cumulative product view count
- BrandN : Cumulative product view count

Evaluation

The result will be evaluated based on the following parameters:

- Quality of code and instructions to execute the same
- Able to execute the script/program to print the results
- Code quality adherence with respect to Sonar Lint

Input Data

The input data is available over here. Download the data in the sheet as csv and use it as an input to the python script. Each row in the data gives the number of times a product was viewed on the particular date along with the product's brand and parentOrg details.

Date	Date on which product view happened
Parent org	The organisation that owns the brand. A parent Organisation could have multiple brands as its children. Eg: Unilever_org is a parent organisation, Axe, Dove, Ponds etc are brands which are under Unilever
Brands	The company that owns the product, each brand is related to a single parent organisation
Product Id	The id of the product viewed
Product View Count	The number of times the product has been viewed on the given date

Coding Challenge 2 Product Knowledge Graph API

Objective

Write a **Python job** (Python 3) that retrieves the SKU details of the given product using the Shopalyst Product Knowledge Graph API. The program should accept product id as input, calls the Product Knowledge Graph API, and displays the SKU details in the expected output format

API Details

```
Method: GET
EndPoint :
https://dev.shopalyst.com/shopalyst-service/v1/products/<productId>
```

Context

Consider 9 To 5 Matte Lip Color lipstick product on nykaa.com which is represented in the Shopalyst Product Knowledge Graph as - `https://dev.shopalyst.com/shopalyst-service/v1/products/929323BCA2A04A74961E0043E9A55B60`

Each Shade has an SKU Id associated with it. Using the response of the above API, print the SKU details

Output format

The following details of each individual SKU associated with the given product have to be displayed

- skuId
- The shade of each SKU
- offerPrice
- title for the SKU

Sample output

```
-------------------------
Product 1
skuId : 152934
shade : MR21 Brick Blush
offerPrice : 299.0
title : Lakme 9 to 5 Primer + Matte Lip Color - MR21 Brick Blush


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Product 2
skuId : 152935
shade : MR22 Scarlet Surge
offerPrice : 299.0
title : Lakme 9 to 5 Primer + Matte Lip Color - MR22 Scarlet Surge

...

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Product 38
skuId : 456986
shade : Mauve Matter MM12
offerPrice : 299.0
title : Lakme 9 To 5 Matte Lip Color - Mauve Matter MM12
```

Evaluation

The result will be evaluated based on the following parameters:

- Quality of code and instructions to execute the same
- Able to execute the script/program to print the results
- Code quality adherence with respect to Sonar Lint

Glossary

SKU: In the field of inventory management, a stock keeping unit is a distinct type of item for sale, such as a product or service, and all attributes associated with the item type that distinguish it from other item types

Additional productId for testing : 12C7BFC3752D4209