The Android App Market on Google Play

Instructions

You work as a Data Analyst for a finance company which is closely eyeing the Android market before it launches its new app into Google Play. You have been asked to present an analysis of Google Play apps so that the team gets a comprehensive overview of different categories of apps, their ratings, and other metrics.

This will require you to use your data manipulation and data analysis skills.

Your three questions are as follows:

1. Read the apps.csv file and clean the Installscolumn to convert it into integer data type. Save your answer as a DataFrame apps. Going forward, you will do all your analysis on the apps DataFrame.

```
apps['Installs'] = apps['Installs'].astype('int64')
 2 apps.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9659 entries, 0 to 9658
Data columns (total 9 columns):
                    Non-Null Count Dtype
# Column
                     9659 non-null object
1 Category
2 Rating
                    9659 non-null object
8196 non-null float6
9659 non-null int64
                                        object
                                        float64
                   8432 non-null float64
9659 non-null int64
9659 non-null object
9659 non-null float64
 4 Size
 5 Installs
     Type
8 Last Updated 9659 non-null object
dtypes: float64(3), int64(2), object(4)
memory usage: 679.3+ KB
```

2. Find the number of apps in each category, the average price, and the average rating. Save your answer as a DataFrame app_category_info. Your should rename the four columns as: Category, Number of apps, Average price, Average rating.

	Category	Number of apps	Average price	Average rating
0	ART_AND_DESIGN	64	0.093281	4.357377
1	AUTO_AND_VEHICLES	85	0.158471	4.190411
2	BEAUTY	53	0.000000	4.278571
3	BOOKS_AND_REFERENCE	222	0.539505	4.344970
4	BUSINESS	420	0.417357	4.098479
5	COMICS	56	0.000000	4.181481
6	COMMUNICATION	315	0.263937	4.121484
7	DATING	171	0.160468	3.970149
8	EDUCATION	119	0.150924	4.364407
9	ENTERTAINMENT	102	0.078235	4.135294

3. Find the top 10 free FINANCE apps having the highest average sentiment score. Save your answer as a DataFrame top_10_user_feedback. Your answer should have exactly 10 rows and two columns named: App and sentiment score, where the average sentiment score is sorted from highest to lowest.

	Арр	Sentiment Score
0	BBVA Spain	0.515086
1	Associated Credit Union Mobile	0.388093
2	BankMobile Vibe App	0.353455
3	A+ Mobile	0.329592
4	Current debit card and app made for teens	0.327258
5	BZWBK24 mobile	0.326883
6	Even - organize your money, get paid early	0.283929
7	Credit Karma	0.270052
8	Fortune City - A Finance App	0.266966
9	Branch	0.264230