Assignment 4

March 7, 2021

0.0.1 Portfolio assignment 4

15 min: Look online for a datset that you personally find interesting to explore. It can be about any topic that you find interesting: sports, games, software development, etc. Commit the dataset to your portfolio. You will be analysing the dataset in future portfolio assignments.

Required characteristics of the dataset: - Must be in a tabular format: Contains rows and columns - Contains at least 100 rows - Contains at least 2 columns with categorical data and at least 2 columns with numerical data - Is less than 200 MB

```
[1]: import pandas as pd
```

```
[2]: steam = pd.read_csv(r"steam_games.csv")
     steam
```

```
[2]:                                                      url types  \
     0          https://store.steampowered.com/app/379720/DOOM/    app
     1        https://store.steampowered.com/app/578080/PLAY…   app
     2        https://store.steampowered.com/app/637090/BATT…   app
     3          https://store.steampowered.com/app/221100/DayZ/   app
     4        https://store.steampowered.com/app/8500/EVE_On…   app
     …                                                      …    …
     40828    https://store.steampowered.com/app/899836/Rock…   app
     40829    https://store.steampowered.com/app/899832/Rock…   app
     40830    https://store.steampowered.com/app/906840/Fant…   app
     40831    https://store.steampowered.com/app/906635/Mega…   app
     40832    https://store.steampowered.com/app/908000/Stor…   app

                                                        name  \
     0                                                   DOOM
     1                           PLAYERUNKNOWN'S BATTLEGROUNDS
     2                                              BATTLETECH
     3                                                    DayZ
     4                                              EVE Online
     …                                                      …
     40828    Rocksmith® 2014 Edition – Remastered – Sabaton…
     40829    Rocksmith® 2014 Edition – Remastered – Stone T…
     40830    Fantasy Grounds – Quests of Doom 4: A Midnight…
     40831                        Mega Man X5 Sound Collection
```

```
40832                                             Stories In Stone

                                          desc_snippet  \
0      Now includes all three premium DLC packs (Unto…
1      PLAYERUNKNOWN'S BATTLEGROUNDS is a battle roya…
2      Take command of your own mercenary outfit of '…
3      The post-soviet country of Chernarus is struck…
4      EVE Online is a community-driven spaceship MMO…
…                                                    …
40828                                            NaN
40829                                            NaN
40830                                            NaN
40831                                            NaN
40832  An RPG about a tribe exploring an ancient worl…


                                        recent_reviews  \
0      Very Positive,(554),- 89% of the 554 user revi…
1      Mixed,(6,214),- 49% of the 6,214 user reviews …
2      Mixed,(166),- 54% of the 166 user reviews in t…
3      Mixed,(932),- 57% of the 932 user reviews in t…
4      Mixed,(287),- 54% of the 287 user reviews in t…
…                                                    …
40828                                            NaN
40829                                            NaN
40830                                            NaN
40831                                            NaN
40832                                            NaN


                                           all_reviews  release_date  \
0      Very Positive,(42,550),- 92% of the 42,550 use…  May 12, 2016
1      Mixed,(836,608),- 49% of the 836,608 user revi…  Dec 21, 2017
2      Mostly Positive,(7,030),- 71% of the 7,030 use…  Apr 24, 2018
3      Mixed,(167,115),- 61% of the 167,115 user revi…  Dec 13, 2018
4      Mostly Positive,(11,481),- 74% of the 11,481 u…   May 6, 2003
…                                                    …             …
40828                                            NaN  Feb 12, 2019
40829                                            NaN   Feb 5, 2019
40830                                            NaN  Jul 31, 2018
40831                                            NaN  Jul 24, 2018
40832                                            NaN   Aug 8, 2018


                  developer                              publisher  \
0               id Software    Bethesda Softworks,Bethesda Softworks
1          PUBG Corporation        PUBG Corporation,PUBG Corporation
2         Harebrained Schemes  Paradox Interactive,Paradox Interactive
3         Bohemia Interactive  Bohemia Interactive,Bohemia Interactive
4                       CCP                                  CCP,CCP
```

```
…                     …                                          …
40828  Ubisoft - San Francisco                                  NaN
40829  Ubisoft - San Francisco                                  NaN
40830        SmiteWorks USA, LLC                                NaN
40831           CAPCOM CO., LTD     CAPCOM CO., LTD,CAPCOM CO., LTD
40832        16 Bit Psych,Kyle B             Self-Publish,Self-Publish


                                              popular_tags  \
0       FPS,Gore,Action,Demons,Shooter,First-Person,Gr…
1       Survival,Shooter,Multiplayer,Battle Royale,PvP…
2       Mechs,Strategy,Turn-Based,Turn-Based Tactics,S…
3       Survival,Zombies,Open World,Multiplayer,PvP,Ma…
4       Space,Massively Multiplayer,Sci-fi,Sandbox,MMO…
…                                                        …
40828                               Casual,Simulation
40829                               Casual,Simulation
40830   RPG,Indie,Strategy,Software,Turn-Based,Fantasy…
40831                                           Action
40832                                      RPG,Adventure


                                              game_details  \
0       Single-player,Multi-player,Co-op,Steam Achieve…
1                 Multi-player,Online Multi-Player,Stats
2       Single-player,Multi-player,Online Multi-Player…
3       Multi-player,Online Multi-Player,Steam Worksho…
4       Multi-player,Online Multi-Player,MMO,Co-op,Onl…
…                                                        …
40828   Single-player,Shared/Split Screen,Downloadable…
40829   Single-player,Shared/Split Screen,Downloadable…
40830   Multi-player,Co-op,Cross-Platform Multiplayer,…
40831   Single-player,Downloadable Content,Steam Achie…
40832   Single-player,Partial Controller Support,Profi…


                                        languages  achievements  \
0       English,French,Italian,German,Spanish - Spain,…         54.0
1       English,Korean,Simplified Chinese,French,Germa…         37.0
2                       English,French,German,Russian        128.0
3       English,French,Italian,German,Spanish - Spain,…          NaN
4                       English,German,Russian,French          NaN
…                                                        …            …
40828   English,German,French,Italian,Spanish - Spain,…          NaN
40829   English,German,French,Italian,Spanish - Spain,…          NaN
40830                                         English          NaN
40831   English,French,Italian,German,Spanish - Spain,…          NaN
40832                                         English          NaN


                                              genre  \
```

```
0                                              Action
1                   Action,Adventure,Massively Multiplayer
2                             Action,Adventure,Strategy
3                   Action,Adventure,Massively Multiplayer
4      Action,Free to Play,Massively Multiplayer,RPG,…
…                                                   …
40828                             Casual,Simulation
40829                             Casual,Simulation
40830                             Indie,RPG,Strategy
40831                                         Action
40832                                 Adventure,RPG

                                      game_description  \
0      About This Game Developed by id software, the…
1      About This Game   PLAYERUNKNOWN'S BATTLEGROUND…
2      About This Game   From original BATTLETECH/Mec…
3      About This Game The post-soviet country of Ch…
4                                       About This Game
…                                                   …
40828  About This Content Play "Ghost Division" by S…
40829  About This Content Play "Trippin' on a Hole i…
40830  About This Content  Quests of Doom 4: A Midni…
40831  About This Content Get equipped with the stun…
40832  About This Game  An RPG about a tribe explori…

                                        mature_content  \
0                                                   NaN
1      Mature Content Description  The developers de…
2                                                   NaN
3                                                   NaN
4                                                   NaN
…                                                   …
40828                                               NaN
40829                                               NaN
40830                                               NaN
40831                                               NaN
40832                                               NaN

                                  minimum_requirements  \
0      Minimum:,OS:,Windows 7/8.1/10 (64-bit versions…
1      Minimum:,Requires a 64-bit processor and opera…
2      Minimum:,Requires a 64-bit processor and opera…
3      Minimum:,OS:,Windows 7/8.1 64-bit,Processor:,I…
4      Minimum:,OS:,Windows 7,Processor:,Intel Dual C…
…                                                   …
40828  Minimum:,OS:,Windows Vista, Windows 7, Windows…
40829  Minimum:,OS:,Windows Vista, Windows 7, Windows…
```

```
40830  Minimum:,OS:,Windows 7x , 8x or 10x,Processor:…
40831  Minimum:,OS:,WINDOWS® 7 (64bit),Processor:,Int…
40832                                                NaN

                             recommended_requirements original_price  \
0      Recommended:,OS:,Windows 7/8.1/10 (64-bit vers…         $19.99
1      Recommended:,Requires a 64-bit processor and o…         $29.99
2      Recommended:,Requires a 64-bit processor and o…         $39.99
3      Recommended:,OS:,Windows 10 64-bit,Processor:,…         $44.99
4      Recommended:,OS:,Windows 10,Processor:,Intel i…           Free
…                                                   …              …
40828  Recommended:,OS:,Windows Vista, Windows 7, Win…          $2.99
40829  Recommended:,OS:,Windows Vista, Windows 7, Win…          $2.99
40830  Recommended:,OS:,Windows 7x , 8x or 10x,Proces…          $7.99
40831  Recommended:,OS:,WINDOWS®10 (64bit),Processor:…          $9.99
40832                                                NaN         $4.99

      discount_price
0             $14.99
1                NaN
2                NaN
3                NaN
4                NaN
…                  …
40828            NaN
40829            NaN
40830            NaN
40831            NaN
40832          $2.80

[40833 rows x 20 columns]
```