Heroes Of Pymoli Data Analysis

- Of the 1163 active players, the vast majority are male (84%). There also exists, a smaller, but notable proportion of female players (14%).
- Our peak age demographic falls between 20-24 (44.8%) with secondary groups falling between 15-19 (18.60%) and 25-29 (13.4%).

Note

• Instructions have been included for each segment. You do not have to follow them exactly, but they are included to help you think through the steps.

Player Count

· Display the total number of players

Purchasing Analysis (Total)

- Run basic calculations to obtain number of unique items, average price, etc.
- · Create a summary data frame to hold the results
- · Optional: give the displayed data cleaner formatting
- · Display the summary data frame

Out[3]:		Normalism of Hariana Harra	Avenage Dries	Number of Durahasas	Total Davisson
		Number of Unique Items	Average Price	Number of Purchases	lotal Revenue
	0	183	\$3.05	780	\$2,379.77

Gender Demographics

- · Percentage and Count of Male Players
- · Percentage and Count of Female Players
- · Percentage and Count of Other / Non-Disclosed

Out[4]:

	Total Count	Percentage of Players
Male	484	84.03
Female	81	14.06
Other / Non-Disclosed	11	1.91

Purchasing Analysis (Gender)

- · Run basic calculations to obtain purchase count, avg. purchase price, avg. purchase total per person etc. by gender
- · Create a summary data frame to hold the results
- · Optional: give the displayed data cleaner formatting
- · Display the summary data frame

Out[5]:

	Purchase Count	Average Purchase Price	Total Purchase Value	Avg Total Purchase per Person
Gender				
Female	113	\$3.20	\$361.94	\$4.47
Male	652	\$3.02	\$1,967.64	\$4.07
Other / Non-Disclosed	15	\$3.35	\$50.19	\$4.56

Age Demographics

- · Establish bins for ages
- · Categorize the existing players using the age bins. Hint: use pd.cut()
- · Calculate the numbers and percentages by age group
- Create a summary data frame to hold the results
- Optional: round the percentage column to two decimal points
- Display Age Demographics Table

Out[6]:

	Total Count	Percentage of Players
<10	17	2.95
10-14	22	3.82
15-19	107	18.58
20-24	258	44.79
25-29	77	13.37
30-34	52	9.03
35-39	31	5.38
40+	12	2.08

Purchasing Analysis (Age)

- Bin the purchase_data data frame by age
- · Run basic calculations to obtain purchase count, avg. purchase price, avg. purchase total per person etc. in the table below
- · Create a summary data frame to hold the results
- · Optional: give the displayed data cleaner formatting
- · Display the summary data frame

Out[7]:

	Purchase Count	Average Purchase Price	Total Purchase Value	Avg Total Purchase per Person
10-14	28	\$2.96	\$82.78	\$3.76
15-19	136	\$3.04	\$412.89	\$3.86
20-24	365	\$3.05	\$1,114.06	\$4.32
25-29	101	\$2.90	\$293.00	\$3.81
30-34	73	\$2.93	\$214.00	\$4.12
35-39	41	\$3.60	\$147.67	\$4.76
40+	13	\$2.94	\$38.24	\$3.19
<10	23	\$3.35	\$77.13	\$4.54

Top Spenders

- Run basic calculations to obtain the results in the table below
- Create a summary data frame to hold the results
- · Sort the total purchase value column in descending order
- · Optional: give the displayed data cleaner formatting
- · Display a preview of the summary data frame

Out[8]:

	Purchase Count	Average Purchase Price	Total Purchase Value
SN			
Lisosia93	5	\$3.79	\$18.96
Idastidru52	4	\$3.86	\$15.45
Chamjask73	3	\$4.61	\$13.83
Iral74	4	\$3.40	\$13.62
Iskadarya95	3	\$4.37	\$13.10

Most Popular Items

- · Retrieve the Item ID, Item Name, and Item Price columns
- · Group by Item ID and Item Name. Perform calculations to obtain purchase count, item price, and total purchase value
- · Create a summary data frame to hold the results
- · Sort the purchase count column in descending order
- · Optional: give the displayed data cleaner formatting
- · Display a preview of the summary data frame

Out[9]:

		Purchase Count	Item Price	Total Purchase Value
Item ID	Item Name			
178	Oathbreaker, Last Hope of the Breaking Storm	12	\$4.23	\$50.76
145	Fiery Glass Crusader	9	\$4.58	\$41.22
108	Extraction, Quickblade Of Trembling Hands	9	\$3.53	\$31.77
82	Nirvana	9	\$4.90	\$44.10
19	Pursuit, Cudgel of Necromancy	8	\$1.02	\$8.16

Most Profitable Items

- · Sort the above table by total purchase value in descending order
- · Optional: give the displayed data cleaner formatting
- Display a preview of the data frame

Out[10]:

		Purchase Count	Item Price	Total Purchase Value
Item ID	Item Name			
178	Oathbreaker, Last Hope of the Breaking Storm	12	\$4.23	\$50.76
82	Nirvana	9	\$4.90	\$44.10
145	Fiery Glass Crusader	9	\$4.58	\$41.22
92	Final Critic	8	\$4.88	\$39.04
103	Singed Scalpel	8	\$4.35	\$34.80