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Pandas Challenge Written Analysis

Demographic analysis of the HeroesOfPymoli dataset reveals that a large majority (84.03%) of the player base (576 players total) is made up of male players. Additionally, after stratifying by age range, we see over 75% of the player base is between the ages of 15 and 29, with nearly 45% of all players being between the ages of 20 and 24.

Further analysis reveals another trend: despite female players only constituting 14.06% of the player base, the average total purchase per female player ($4.47) is $0.40 higher than the average total purchase per male player ($4.07). While further tests are necessary to prove statistical significance, this may suggest that female players spend more on average compared to their male counterparts.

A final trend that can be seen through the purchasing analysis by age group is that of the three most populous age groups (15-19, 20-24, and 25-29) , players who are 20-24 years of age have the highest average total purchase per person. This may be explained by the fact that players who are around the age of typical undergraduate students (20-24) have more disposable income than high school students (15-19) but fewer financial responsibilities compared to 24-29 year old players; thus, they are in the position to spend the most on average.