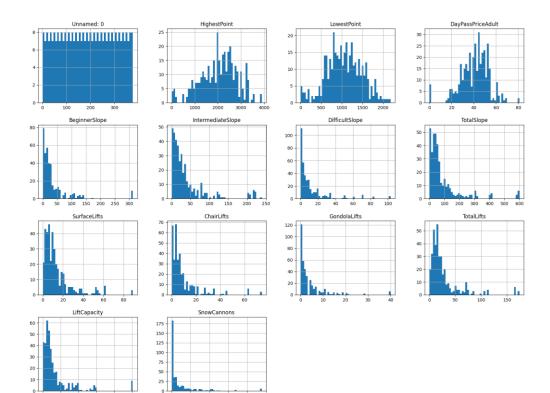
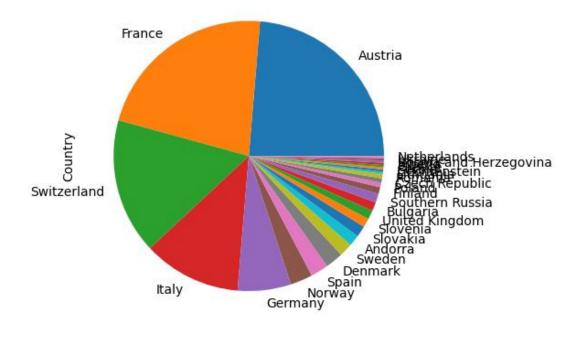


Task

- Objective: predict prices for adult day passes of skiing resorts in Europe
- Approach:
 - 1. Descriptive data analysis
 - Data visualization
 - 3. Correlation matrix
 - 4. Split in test and train data
 - 5. Data preparation and transformation
 - 6. Build linear model
 - 7. Evaluate linear model on training data set
 - 8. Evaluate linear model on testing data set
 - 9. Compare performance measures (MAE and RMSE)

Data visualization





Results

 Linear regression can achieve an remaining mean error of less than 10 euro for a skiing day pass

Issues:

- Some countries are problematic because there are only few instances (some only in training data set or only in testing data set)
- Overfitting seems to be an issue, because performance measures are better when looking at the training data
- More transformations could be applied still
- Too small data set