

Post Study Questionnaire Rubric

Adam Rule - Feb 12, 2018

Comprehension

1. What cities did the researcher originally compare? (please list all of them)
 - a. San Diego, LA, SF, Portland, Seattle
2. What two types of housing prices did the researcher plot over time?
 - a. House Prices, Rental Prices
3. Which two cities had the least similar (or correlated) changes in housing prices?
 - a. SF and Portland
4. Which city saw a large fall in one of the two types of housing price in the last two years?
 - a. SF
5. What three components made up each city's unique RegionName?
 - a. City, county, state
6. Which column of data did the researcher change the datatype of before plotting?
 - a. date
7. Which company provided the data used in this analysis?
 - a. Zillow

Data Analysis (What do the following snippets of code do? Please be specific)

1. `df = pd.DataFrame(d, columns=['name', 'age'])`
 - a. Creates dataframe with name and age columns
2. `df[df['visits'] > 3]`
 - a. Filters dataframe to rows where visits are > 3
3. `df['car'].value_counts()`
 - a. Counts the number of times each value of "Car" occurs
4. `df.groupby('animal')['age'].mean()`
 - a. Returns the mean age of each type of animal
5. `sum(df2['age'].isnull())`
 - a. Counts the number elements in the age column that are null
6. `df = pd.merge(df1, df2, on='UID')`
 - a. Merges two dataframes on UID
7. `x = np.arange(0, 11); plt.plot(x, x**2)`
 - a. Plots x vs x² for the values 1-10