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## Weekly Challenge

**Solve the challenge, share your solution and summit the ranks of our Community!**

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**IDEAS WANTED**
We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!
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<  Weekly Challenge

# Challenge #314: Hot Real Estate Markets

**AYXAcademy**
Alteryx

A solution to last week's challenge can be found here.



As we all know, the housing market these days is going a bit crazy. In this challenge, we'll use real data from Zillow, an online real estate marketplace company, to examine house and rent prices.

For the purposes of this challenge we will analyze which metro areas in the United States have seen the greatest increase in Home Values relative to Rent Values. In other words, where has home prices increased the most above the rental rates in the same metro area.

Task 1:
Clean and parse the pre-downloaded data into a table format for analytical processing to show the Average Home Value and Average Rent Value per Region ID, Region Name for each Month between January 2000 - Aug 2021.

Option:
You can go fancy and source the data directly from the Zillow URL. This one involves parsing, transforming, and renaming of the data to get it into a usable table format as in the previous task. This option will provide more recent data than the pre-downloaded file, so you may get slightly different results.

Task 2:
Calculate the percentage increase in Home Value and Rent Value from January 2014 to August 2021 for each Region ID and include the delta.

Bonus:
Build a macro to capture the Zillow data source. This can be reused to capture more metrics available than just Avg Home Value and Avg Rents. There are many different metrics available and a batch macro could be used together with the list of URLs to retrieve other data.
This Weekly Challenge uses real data published by Zillow: https://www.zillow.com/research/data/

Zillow may update these links periodically, so if there is an error with the download, then check the steps below to get the most recent URL for the workflow input:
• Go to https://www.zillow.com/research/data/
• Find the category/data source of interest (Home values, home forecasts, rent values, inventory, etc)
• Select the "Data Type" (e.g. "ZHVI Single-Family Homes Time Series ($)") and the "Geography" level of analysis (e.g. City, County, State)
• Right click on the corresponding "Download" button and select Copy Link
• Paste correct download link in workflow input

📎 **WeeklyChallenge 314_Start File.yxzp**      ⤓

📎 **WeeklyChallenge 314_Solution File.yxzp**      ⤓

Data Analysis    Data Preparation    Intermediate

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**Aaron_Harter**
11 - Bolide

Fun challenge!

▷ Spoiler

📎 **WeeklyChallenge 314_AB Data_Aaron.yxzp**      ⤓

**PhilipMannering**
15 - Aurora

Solution attached!

▷ Spoiler

🔗 **WeeklyChallenge 314_Start File.yxmd** 📥

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**joelmiller66**
8 - Asteroid

[This week on House Hunters]

Husband: I make sculptures out of wet cereal

Wife: I'm sell ornamental ferret pillows

Our budget is 860k



▷ Spoiler

🔗 **WeeklyChallenge 314_JM_ABDC.yxmd** 📥

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**RolandSchubert**
16 - Nebula

▷ Spoiler

🔗 **WeeklyChallenge 314_Solution_RSC.yxzp** 📥

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**patrick_digan**
17 - Castor

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**AkimasaKajitani**
15 - Aurora

My solution.

▷ Spoiler

🔗 **WeeklyChallenge 314_Start File_AK.yxzp** 📥

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**binuacs**
15 - Aurora

▷ Spoiler

🔗 **WeeklyChallenge 314_Solution_BV.yxmd** 📥

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**Kenda**
15 - Aurora

▷ Spoiler

🔗 **WeeklyChallenge 314_ks.yxzp** 📥

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**alexnajm**
9 - Comet

Not too bad!

▷ Spoiler

🔗 **WeeklyChallenge 314_Start File_Alex Abi-Najm.yxmd** 📥

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