**PRACTICE TABLEAU ACTIVITY 1**

1. Connect to the HPIAdmins spreadsheet in the SourceData workbook.
2. Hide all of the fields except Date, Region Name, Index and 12m%Change.
3. Ensure that Date is a Date field, Region Name is a String field, and Index and 12m%Change are number fields.
4. Rename 12m%Change as "12 month percentage change", and change its default aggregation to Average.
5. Create a viz (a line chart) which shows, for each RegionName, the average 12 month percentage change per year.
6. Color the lines according to the RegionName.
7. Duplicate the viz, and change it to a circle display.
8. Add the average of the Index as the size.

**PRACTICE TABLEAU ACTIVITY 2**

Right - over to you. Close Tableau, if you already have it open, and let's create a couple of vizzes.

1. Open Tableau, and connect to the Excel workbook "SourceDataf.xlsx", and the Excel spreadsheet "CDs".
2. Create a viz which shows a bar chart the smallest file size per "File Extension". (There are 3 File Extensions - I want the smallest file size for each of these file extensions.)
3. Create another viz which shows a line chart with Years and Quarters in the Columns shelf, and the Minimum of the "#" field in the Rows shelf.
4. Either save this viz to Tableau Public, or save it to your desktop (if you have Tableau Desktop or similar.)
5. Close Tableau completely, open it again, and open your newly saved file.

**PRACTICE TABLEAU ACTIVITY 3**

1. Connect to the HPIRegions spreadsheet (note: not the HPIAdmin spreadsheet) in the SourceDataf workbook.   
2. Create a folder for the fields starting "Detached", and move them into that folder.  
3. Create a viz (stacked bar chart) showing the Date going along the bottom (Year, then Quarter), the Sum of the SalesVolume as the bars, and the RegionName being the color.  
4. Highlight the West Midlands Region.  
5. Add a filter using the RegionName, add a filter card, and exclude "London" and "England".  
6. Create a new shape viz, with SalesVolume running along the bottom, Average of AveragePrice running up the graph, RegionName being the color, and Average of 12m%Change being the size. Exclude London and England.  
7. Add the Date to the Page card, using the Year and Quarter.  
8. Add labels showing the Minimum and Maximum of the Average of 12m%Change.  
9. Add an annotation in the bottom-right corner saying "House Price inflation by region."  
10. Change the speed to Fast, and press the play button in the Page card.

**PRACTICE TABLEAU ACTIVITY 4**

1. Connect to the HPIRegions spreadsheet (note: not the HPIAdmin spreadsheet) in the SourceDataf workbook.

2. Create a viz (bar chart) which shows the Year(Date) (going across) by SUM(Sales Volume) (going up). Drag "Region Name" to the Color mark. Rename this as "Viz 1".

3. Create a second viz which has:  
    "Region Name" on the Rows, and  
    Sum(Sales Volume) in the Text marks.  
    Rename this as "Viz 2".

4. Create a third viz which has:  
    Year(Date) on the Rows shelf  
    Sum(Sales Volume) in the Text marks.  
    Rename this as "Viz 3".

5. Create a dashboard which has:  
    "Viz 2" in the top-left hand corner.  
    "Viz 3" in the top-right hand corner.  
    "Viz 1" in the bottom half.  
    Before you do it, have a think about what is the best order to add the Vizzes into the dashboard.

6. Click on the "Use as Filter" on Viz 2, and click on "East Midlands" in Viz 2. See what happens.

7. Now change this filter so that it only works on a menu.

8. Add a similar filter on Viz 3.

9. Set up this dashboard on a Tablet and a Phone.

10. Create a story, using this dashboard three times. In each story point, select a different region in "Viz 2".

**PRACTICE TABLEAU ACTIVITY 5**

1. Connect to the States spreadsheet in the SourceDataf workbook. This contains a list of the population of the 50 US states.
2. Create a new viz. Add the Latitude, Longitude and Population. Look at the results.
3. Show the results by State.
4. How many states are missing? Correct the problem.
5. Zoom into New York so that it roughly fits the screen.

Please note: we will be continuing this viz in the next Practice Activity, so please save this viz.

**PRACTICE TABLEAU ACTIVITY 6**

1. This Practice Activity continues from the previous activity. If you are starting afresh, connect to the States spreadsheet in the SourceDataf workbook.
2. Create a new viz, with State on the Rows shelf and Sum(Population) as a Text mark.
3. Create a new group, grouping together all states which start with the letter M.
4. Order the viz by Sum of Population descending.
5. Create a new set of "State (group)", containing the top 5 state groups based on Population.
6. Go back to the map viz (or create a fresh map), and change the color scheme to the newly created set.

Move this set to the rows shelf.