**Tableau Example:**

**Example 1**

**Data source**: P1-AmazingMartEU2

**Knowledge Gained:** joining, blending by add the data source as new one and show how blending can handle join between multiple data source on the fly and on any used granularity level.

Use dual axis and synchronize it

Add Calculated fields to demonstrate sales exceed target.

**Example 2**

**Data source**: P1-UK\_BankCustomers

**Knowledge Gained:** deal with maps and adjust geographical rules for location fields.

Learn how to use table calculation.

Build an interactive dashboard and know how to define parameter and the used it control bins size used in age and balance after create two new columns as category ( by assign parameters to new bin columns).

Build a complete Story by using created dashboard.

Learn how can focus on specific points only and make a story to get focus on.

**Example 3**

**Data source**: P11-Country-Population.xls, P11-Fertility-Rate.xls, P11-Country-Metadata.xls, P11-Life-Expectancy-At-Birth.xls

**Knowledge Gained:** do pivot, do animation by add field in page section , add annotation. More practice on blend, and sort manually by region so high population country not hide smaller ones.

Add history to desired point by show history and click on point (add a tail)

**Example 4**

**Data source**: P11-MegaMerchandise.xlsx

**Knowledge Gained:** New Concepts in level of details Calculations used to enable user to can add multi levels of details calculation in same chart (include,exclude,fixed).

Include allow you to go to next(lower) level of granularity.

Exclude allow you to go to previous(higher) level of granularity.

Fixed means do not care about chart level of granularity, it consider it is specified fixed level.

Include and exclude can be think like relative path , but Fixed as absolute path.

Adding Hierarchy (Country>stat>city) then use in map.

Description of desired map chart:

State colors represent the average profit across the cities of that state.

so each state, if it's a dark blue, that means the average profit for the cities in that state is high. If it's our red or orange, it's a negative

A circle colors and sizes show the percent contribution of the profit of the respective city towards the overall

profit of the state.

We want profit average to divide by number of cities not all order numbers. So how to do that .

In calculated field

{include [city]:sum(profit)} the take average of this field instead of profit

Attr() function allow you to add field to tool tip without go to this level of granularity and if contain many value you got \*

to get the percent contribution of the profit of the respective city towards the overall

In calculated field

{exclude [city]:sum(profit)} the add it to tool tip you can see attr() is automatically applied to it.

Then get sum of profit and divide by attr(exclude calculated fiels)

Agg(sum(profit)/attr(cal field)) add abs() when put in size for negative value not to be too small

And in color \* sign( attr() ) so for negative profit for state and city the color must indicate negative value.

To do same include example but with fixed so do the following

{fixed [country], [stat] ,[city]:sum(profit)} so not affect by any changes in details level and that’s opposite to previous examples.

To do same exclude example but with fixed so do the following

{ fixed [country], [stat]:sum(profit)} so not affect by any changes in details level and that’s opposite to previous examples.

At end can combine two charts by put them in one sheet then select dual axis so they will appear over each other and you can see two types of information.