Human Population '17 -- HW2 : Demographic Transitions in InsightMaker
due Feb 7

Japan

Use InsightMaker to create a model for the demographic transition of the population of Japan (stock: [Japan]) according to the data provided in Limits to Growth, Figure 2-6A, p. 34 (note the units!). Use converters to map birth and death rates from the figure to simulation years. Simulate from 1900 to 2000. Link the variable Year (using the function Year()) to the converters. Link the converters to the birth and death rates, as appropriate. And link the birth and death rates to the input and output flows ([birth] and [death]) to and from the population stock.

Run simulations. Try to reproduce the final year 2000 population of Japan by adjusting only the variables in the two converters.

Mexico

Select all except [Japan] and make a folder called "Model for Japan". Copy the whole model. Change the name of the new folder to "Model for Mexico" and the name of new [Japan] stock to [Mexico]. Edit the birth and death flows to use the new name. Then edit the converters to use the data from Figure 2-6B. Run simulations and again try to reproduce the the 2000 population of Mexico by adjusting only the variables in the two converters.

In the Simulate window add a separate display called "Mexico". Rename the first display "Japan". Configure the "Mexico" display to show the population and birth/death rates as before. Create a third display called "side by side" and configure it to show just the populations of the two countries.

Beautify

Select your "Model for Japan" folder. Collapse it. Re-size it in the collapsed state. Make the title bold, italicized and underlined. Color the background. Add a custom image using a URL obtained by a Google search of images using "Japan". Do the same for Mexico.

Tell a story

Use the Share I StoryTelling function to write a "walk-through" of the two models. Start with both folders collapsed. Edit story. Each step in the story should be a Group of steps. The first group of steps should expand and highlight "Model for Japan" and dim everything else. Second group should run a simulation and show a message. Third group should close the simulation window*, collapse "Model for Japan", highlight "Model for Mexico" and dim everything else. Fourth group should run a simulation showing the "Mexico" display and show a message. Finally, the last group should close the simulation window*, collapse the "Model for Mexico", run a simulation and display "side by side", and show a message.
You may add other functions as you wish.

*The close the simulation window, Add Step I Run Action, type in closeAllWindows()
This is one of the InsightMaker API functions.

**When you are finished.**

Click on "insight accessing" and add "bystroff" as a user. Then send me an email saying you are done with HW2.