Tutorial for G-AIMMS: Witch Apprentice - Healing Potion Sublevel

Introduction to G-AIMMS
G-AIMMS is a series of AIMMS based games aimed to extend your modeling skills and AIMMS knowledge. G-AIMMS: Witch Apprentice - Healing Potion Sublevel focuses in making a batch run of a set of cases and showing the results in a multiple case object. This tutorial contains a short description of the AIMMS features necessary to complete this level. You can always review this tutorial while playing G-AIMMS. It is located on the Help page.

Using the Model Explorer
For this level you need to work in the Model Explorer. The Model Explorer has been explained in the tutorial of the first level. Please have a look at this tutorial again if you feel unsure about how to proceed.
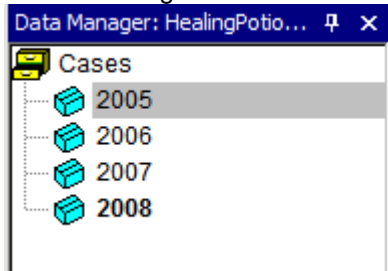
Using the Page Manager
For this level you need to work with the Page Manager. The Page Manager has been explained in the tutorial of the first sublevel. Please have a look at this tutorial again if you feel unsure about how to proceed.

Data Manager and Batch Run
For this level you can make use of the batch run functionality of AIMMS. Note that it is also possible to manually load a case, run a procedure, and save the case, but it will be useful to familiarize yourself with the batch run functionality as it will allow you to run a large set of cases unattended.
The tool that is used in AIMMS for data handling is the Data Manager. The Data Manager provides a graphical overview of all available cases. It also allows you to introduce new cases, delete existing cases or structure you case tree.

Batch Run
Is this level the batch run functionality will take care of loading and saving of cases. In AIMMS it is also possible to load and save individual cases via the Data menu, but this will not be necessary for this level. Once you have opened the Data Manager tool you can open the Batch Run window via the menu: View - Batch Run. When executing a batch run (can be done via the menu: Run - Start Batch when the Batch Run window has the focus) AIMMS will one by one load each case in the Batch Run selection, execute a procedure and save the case. The procedure that is executed is determined by the procedure set via the menu: Run - Default Procedure. You should specify the procedure that solves the model.

Multiple Case Object
Most data objects have the possibility to compare the data of multiple cases. After introducing a new Bar Chart object you can open the object properties dialog and tick the Multiple Case Object checkbox to show the data of the cases in the current case selection instead of the current data. Via the Data menu item Multiple Cases you can specify which of the available cases should be in

the current case selection.

Playing this G-AIMMS
Below is an overview of the steps you have to take to complete this G-AIMMS:
- Open the file 'HealingPotionSublevel.prj'. This will start this G-AIMMS. For this G-AIMMS you can use your own AIMMS license, a free trial license, or a free student license. A developer password is required for this level. You can obtain this password by successfully finishing Healing Potion.
- Take a look at the story and the problem description to get an impression of the problem.
- Open the Data Manager; this is the tool you will use to access the Batch Run functionality.
- Afterwards open the Page Manager and make the new Case Comparison page comparing the optimized output and the actual purchased and farmed ingredients.
- To check your solution go to the Submit Solution page and click the 'Check Solution' button. If the cases and your page are ok, you will be informed that you have completed the level. If not you will get a tip about what is still missing. In this case, please make the necessary correct and check again.

Where to find help while playing
While playing the G-AIMMS, there are a lot of ways to get help. See below for some of the options:
- You can always review this tutorial. It is located on the Help page.
- You can look for extra help in the Help menu, where you can find links to the complete AIMMS documentation and where you can search all of the documentation for a certain topic.
- You can click the 🕂? icon and select an object on your screen to get help on that object.
- You can type the word you want help on in a procedure, press the right mouse button while your cursor is above it and select 'Help on'.