Bootstrap Entity and data from an Excel File

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In this exercise, your primary objective is to creating an Entity within OutSystems by performing the bootstrap process and importing data to the Entity from an Excel file.

Upon completion, you will have successfully created an Entity contained with information sourced from the Excel file during the bootstrap process.
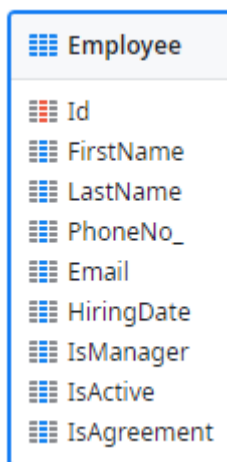
Resources

You will need the following excel file to complete this exercise. This file can be found in the *Resources* folder of this lesson materials.

- Employee.xlsx

The Excel file will be used to bootstrap data to the Entity.

Scenario

In this exercise, you will create an Entity, **Employee**.

Using the **Import New Entities from Excel...** with the Employee.xlsx file, the Employee Entity will be created and the data bootstrapped from the Excel file and stored in the Entity.
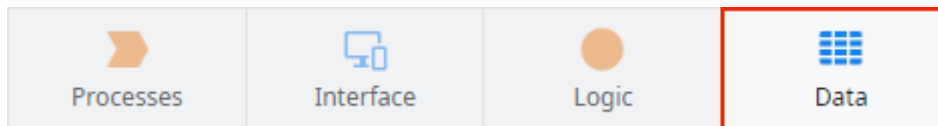
How-To

In this section, we will show you how to do this exercise, with a thorough step-by-step description. **If you already finished the exercise on your own, great! You don't need to do it again**. If you didn't finish the exercise, that's fine! We are here to help you.
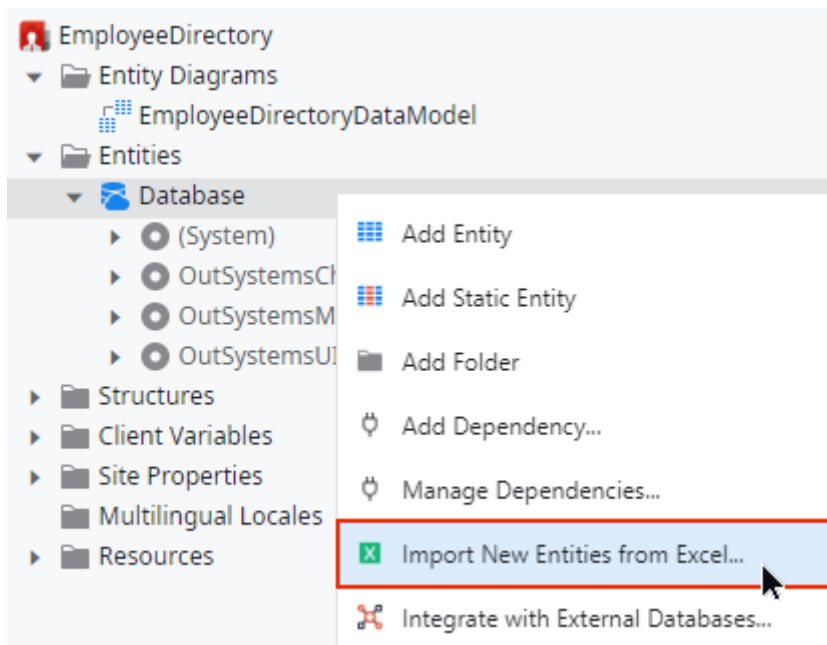
Bootstrap an Entity and its Data from Excel

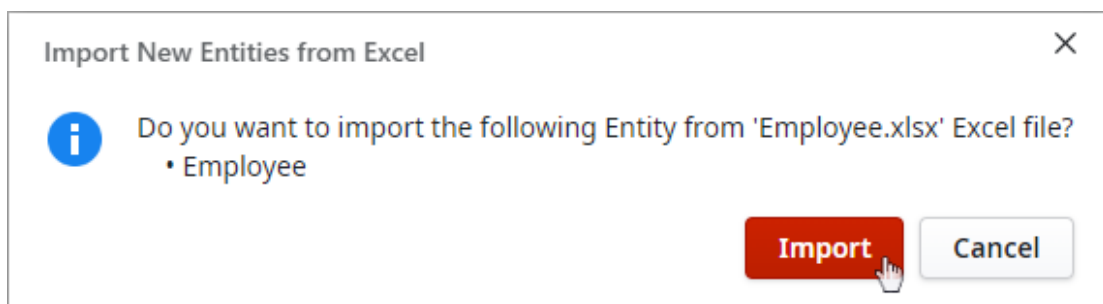In this section, you will create your first Entity automatically from the Excel file Employee.xlsx.

1) Switch to the **Data** tab.

2) Right-click the **Database** element, then select **Import New Entities from Excel...**.

3) Locate the Employee.xlsx file from the Lesson Materials, and open it.

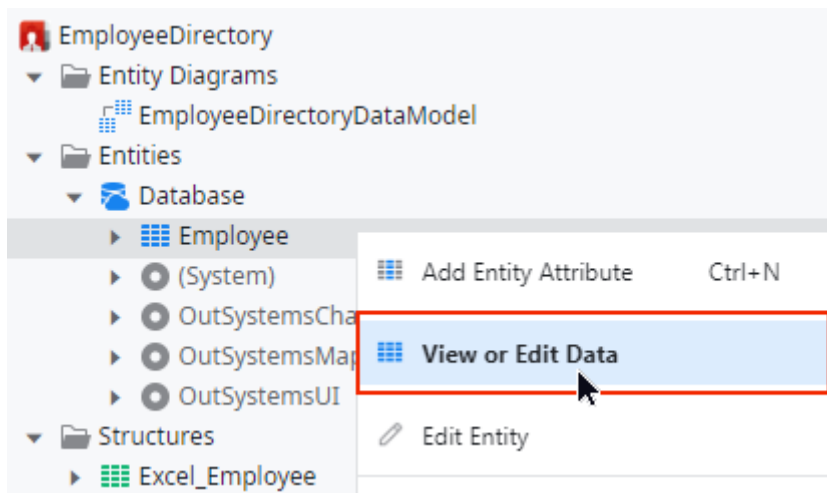4) Click **Import** to create the Entity and the bootstrap logic (Timer).

5) Publish the module to save the changes to the server.

6) Wait for the **Open in Browser** button to appear.

7) Right-click the **Employee** Entity and choose **View or Edit Data**

Besides saving the changes, this step will also create the Entity in the Database and trigger the Timer containing the bootstrap logic to execute.

8) The loaded data should be displayed:

If the data is not displayed, wait a few seconds and then press `CTRL+L` to reload the preview.

9) If necessary, you have the option to modify both the attribute name and the data within the presented table. To edit the 'PhoneNo_' attribute specifically, in the Data tab expand the **Employee** Entity.

10) Choose the **PhoneNo_** attribute from the Entity list, and in the properties window, substitute the current **Name** of the attribute with *PhoneNumber*.

11) Change the **Data Type** to **Long Integer**, and set the attribute as mandatory.

12) Likewise, ensure the following attributes are set as mandatory.

- FirstName

- LastName

- Email

- HiringDate

- IsManager

13) Publish the module to save the changes to the server.

14) Observe that upon updating the attribute settings, the corresponding value becomes zero. To assign a value to the **PhoneNumber** attribute, click the **Edit** icon on the required row.

15) Input the phone number: *9148033049*.

16) Similarly, input the specified phone number for the remaining employees.

- **Irvine Hasser**: 9148033048

- **Fidelia Garahan**: 9148033045

- **Zacharias Pre**: 9148033044

- **Cletus Harget**: 9148033043

- **Anatol Lago**: 9148033042

- **Anny Ledington**: 9148033041

- **Elka Scopes**: 9148033047

- **Deloria McInility**: 9148033046

17) Click **Apply** to update the changes to the Entity.

18) Publish the module to save the changes to the server.

Congratulations! You've successfully bootstrapped the Employee Entity and seamlessly imported its data from the Excel file.