

Bootstrap Entity and data from an Excel File

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Bootstrap Entity and data from an Excel File

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

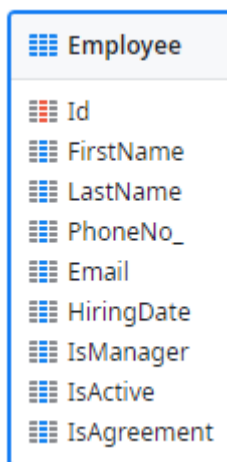
You will need the following excel file to complete this exercise. This file can be found in the *Resources* folder of this lesson materials.

- 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.

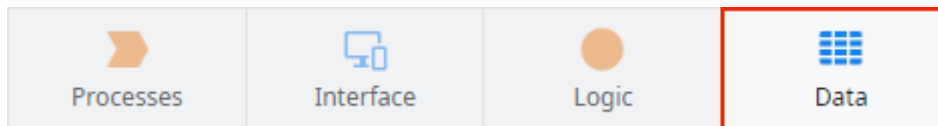
How-To

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.

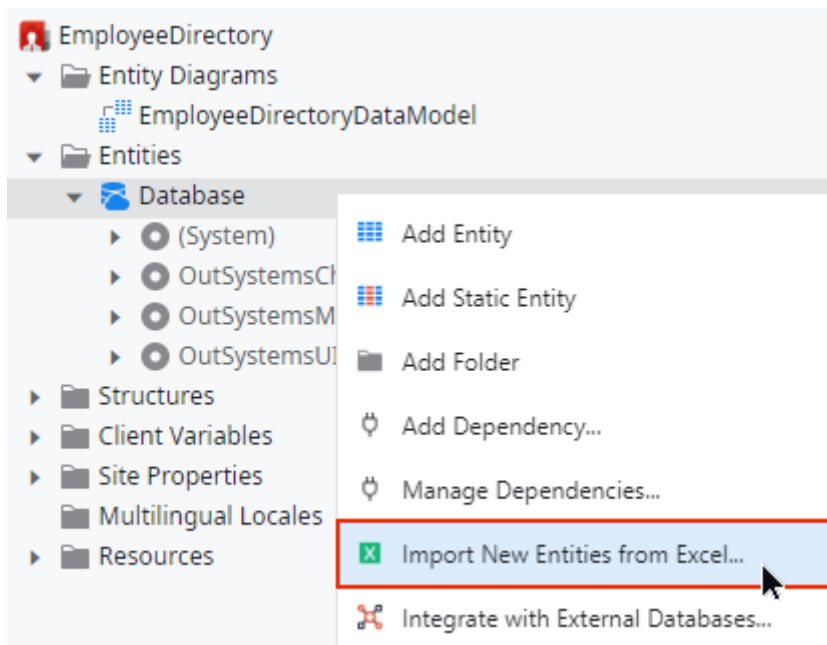
Bootstrap an Entity and its Data from Excel

In this section, you will create your first Entity automatically from the Excel file [Employee.xlsx](#).

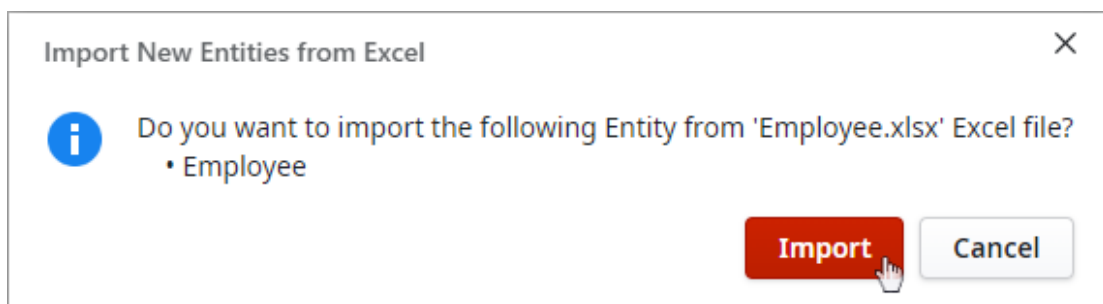
- 1) Switch to the **Data** tab.



- 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).



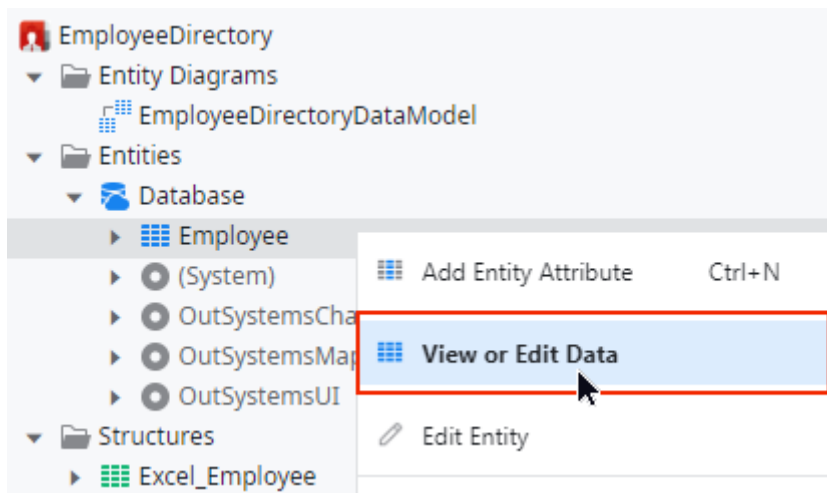
- 5) Publish the module to save the changes to the server.



- 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:

Employee Data

No Filters 1 Sorting

Employee Id	Employee FirstName	Employee LastName	Employee PhoneNo_	Employee Email	Employee HiringDate	Employee IsManager	Employee IsActive	Employee IsAgreement
9	Caddric	Saiz	9148033049	csaiz2@acme.com	2018-07-24	True	True	True
8	Irvine	Hasser	9148033048	ihasser7@acme.com	2018-07-23	False	True	True
7	Fidelia	Garahan	9148033045	fgarahan6@acme.com	2018-07-22	False	True	True
6	Zacharias	Pre	9148033044	zpre5@acme.com	2017-07-21	False	True	True
5	Cletus	Harget	9148033043	charget4@acme.com	2017-07-20	False	True	True
4	Anatol	Lago	9148033042	alago3@acme.com	2017-07-19	False	True	True
3	Anny	Ledington	9148033041	aledington2@acme.com	2016-07-18	True	False	False
2	Elka	Scopes	9148033047	escopes1@acme.com	2016-07-17	True	False	False
1	Deloria	McInlity	9148033046	dmcinlity0@acme.com	2023-07-16	True	True	True

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.

The screenshot shows the OutSystems Data tab with the 'Employee' entity selected. The 'PhoneNumber' attribute is highlighted in the list. The properties window for 'PhoneNumber' is open, showing the following fields:

Name	PhoneNumber
Description	...
Label	Phone Number
Data Type	Long Integer
Is AutoNumber	No
Is Mandatory	Yes
Default Value	...

- 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.

  Employee Data

No Filters	1 Sorting
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 Employee Id	 Employee FirstName	 Employee LastName	 Employee PhoneNumber	 Employee Email
9	Caddric	Saiz		csaiz8@acme.com
8	Irvine	Hasser	0	ihasser7@acme.com
7	Fidelia	Garahan	0	fgarahan6@acme.com
6	Zacharias	Pre	0	zpre5@acme.com
5	Cletus	Harget	0	charget4@acme.com
4	Anatol	Lago	0	alago3@acme.com
3	Anny	Ledington	0	aledington2@acme.com
2	Elka	Scopes	0	escopes1@acme.com
1	Deloria	McInility	0	dmcinility0@acme.com

15) Input the phone number: 9148033049.

 Employee Id	 Employee FirstName	 Employee LastName	 Employee PhoneNumber	 Employee Email
* 9	Caddric	Saiz	9148033049	csaiz8@acme.com
8	Irvine	Hasser	0	ihasser7@acme.com

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.

Employee Data

Employee ▶ Employee Data

No Filters

1 Sorting

Employee Id	Employee FirstName	Employee LastName	Employee PhoneNumber	Employee Email	Employee HiringDate	Employee IsManager	Employee IsActive	Employee IsAgreement
* 9	Caddric	Saiz	9148033049	csaiz8@acme.com	2018-07-24	True	True	True
* 8	Irvine	Hasser	9148033048	ihasser7@acme.com	2018-07-23	False	True	True
* 7	Fidelia	Garahan	9148033045	fgarahan6@acme.com	2018-07-22	False	True	True
* 6	Zacharias	Pre	9148033044	zpre5@acme.com	2017-07-21	False	True	True
* 5	Cletus	Harget	9148033043	charget4@acme.com	2017-07-20	False	True	True
* 4	Anatol	Lago	9148033042	alago3@acme.com	2017-07-19	False	True	True
* 3	Anny	Ledington	9148033041	aledington2@acme.com	2016-07-18	True	False	False
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* 1	Deloria	McInility	9148033046	dmcinility0@acme.com	2023-07-16	True	True	True

Add row

Apply

Discard

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.