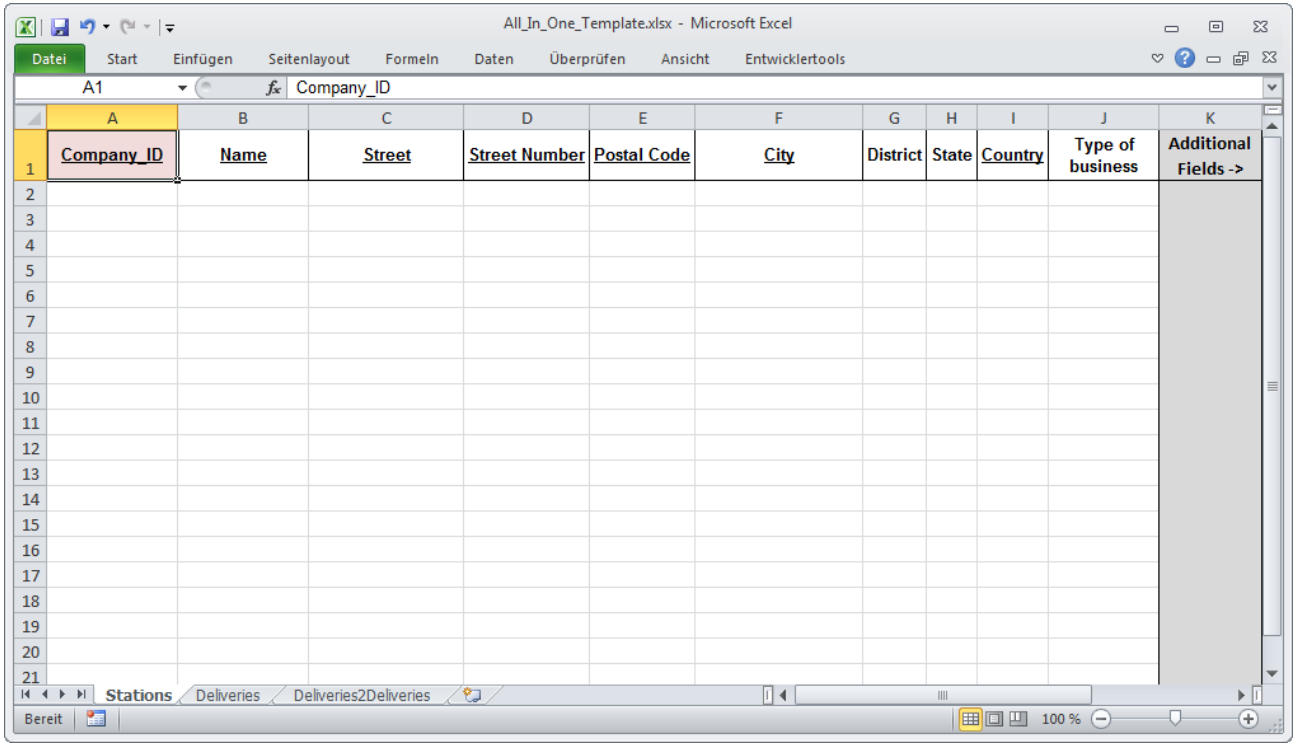
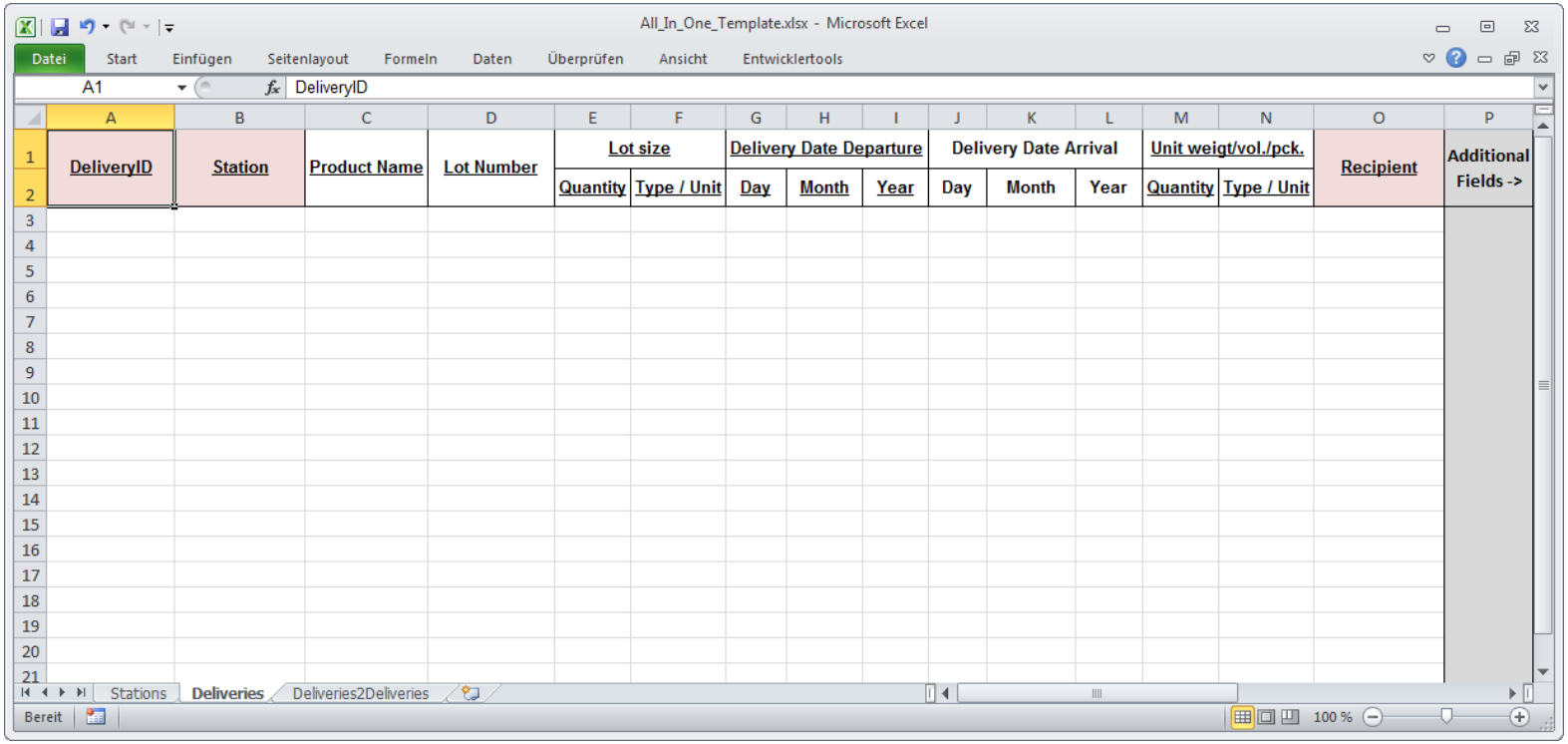
Importing data into FoodChain-Lab with All-in-one template

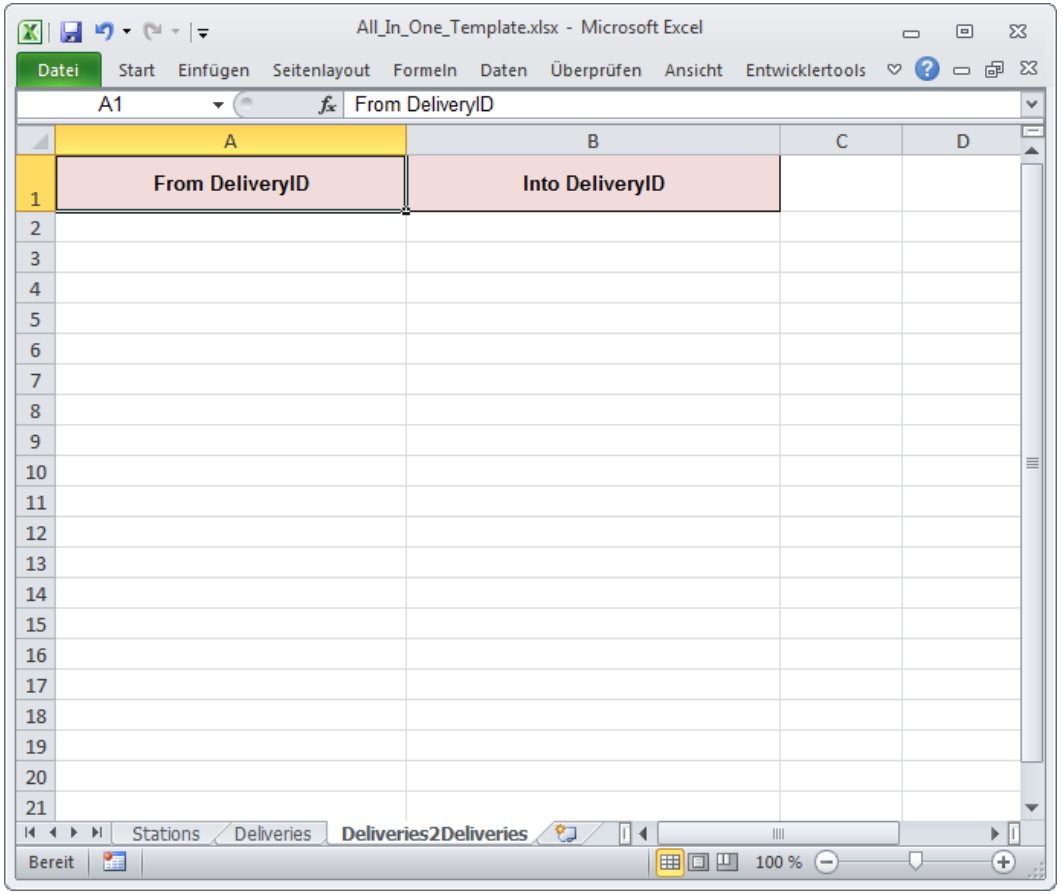
- In this tutorial we'll show you how to import delivery data to FoodChain-Lab via our All-in-one Excel template.
- All data will be entered in one file.
- The All-in-one template can be download from here: `https://github.com/SiLeBAT/BfROpenLabResources/raw/master/GitHubPages/templates/All_In_One_Template.xlsx`
- If you do not want to fill the template yourself, you can download the filled out result of this tutorial from here: `https://github.com/SiLeBAT/BfROpenLabResources/raw/master/GitHubPages/documents/All_In_One_Template_Example.xlsx`



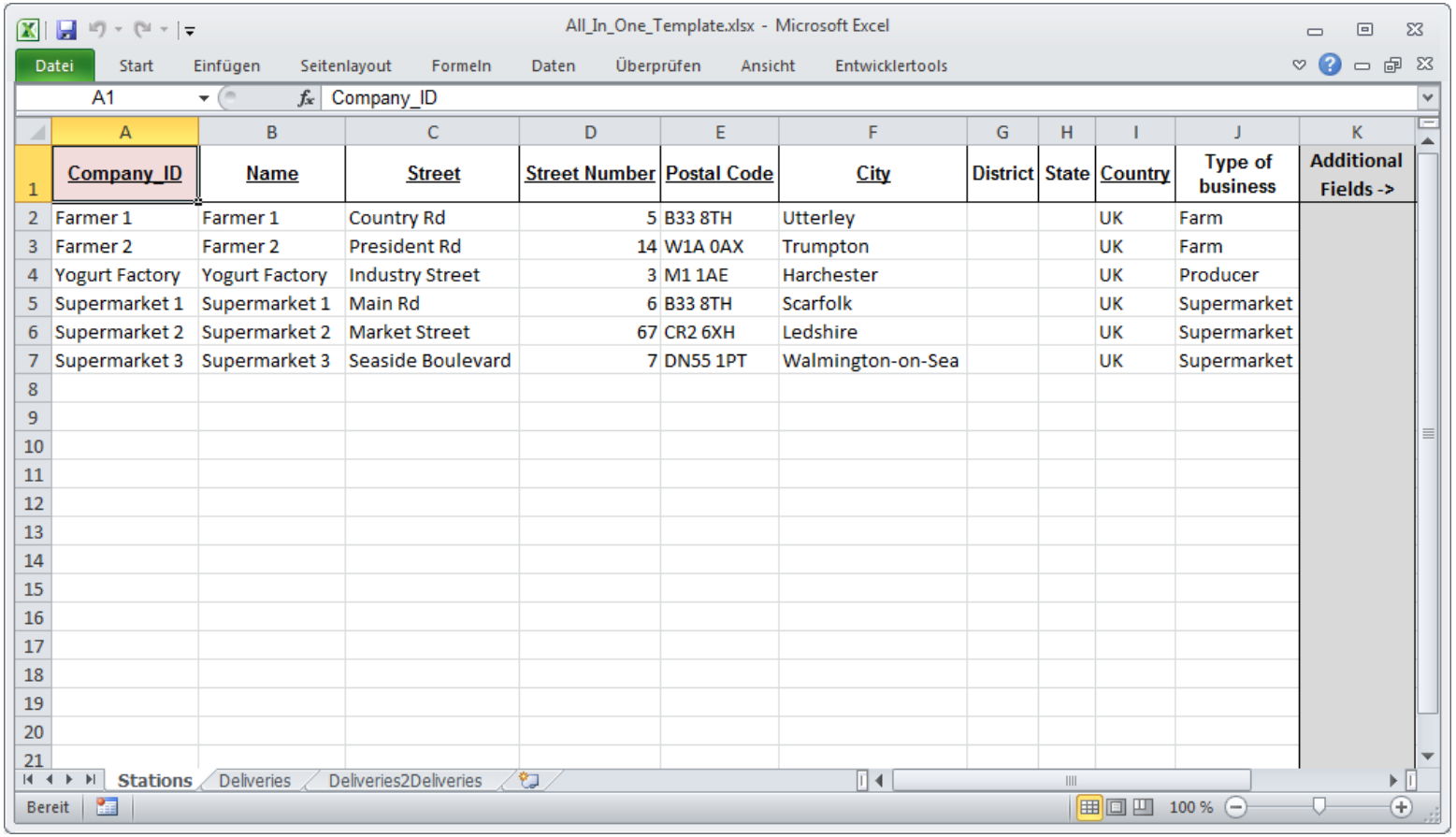
- Open "All_In_One_Template.xlsx" and select the **Stations** sheet.
- Here you must enter all stations of the delivery network.
- The **Company_ID** column is mandatory, all other columns are optional.
- Next to **Additional Fields** you can specify your own columns, for which you would like to enter data.



- Now select the **Deliveries** sheet.
- Here you must enter all deliveries between the stations defined in the previous sheet.
- The columns with the red headers are mandatory. In **Station** and **Recipient** you must enter **Company_IDs** from the previous sheet.
- Next to **Additional Fields** you can specify your own columns, for which you would like to enter data.

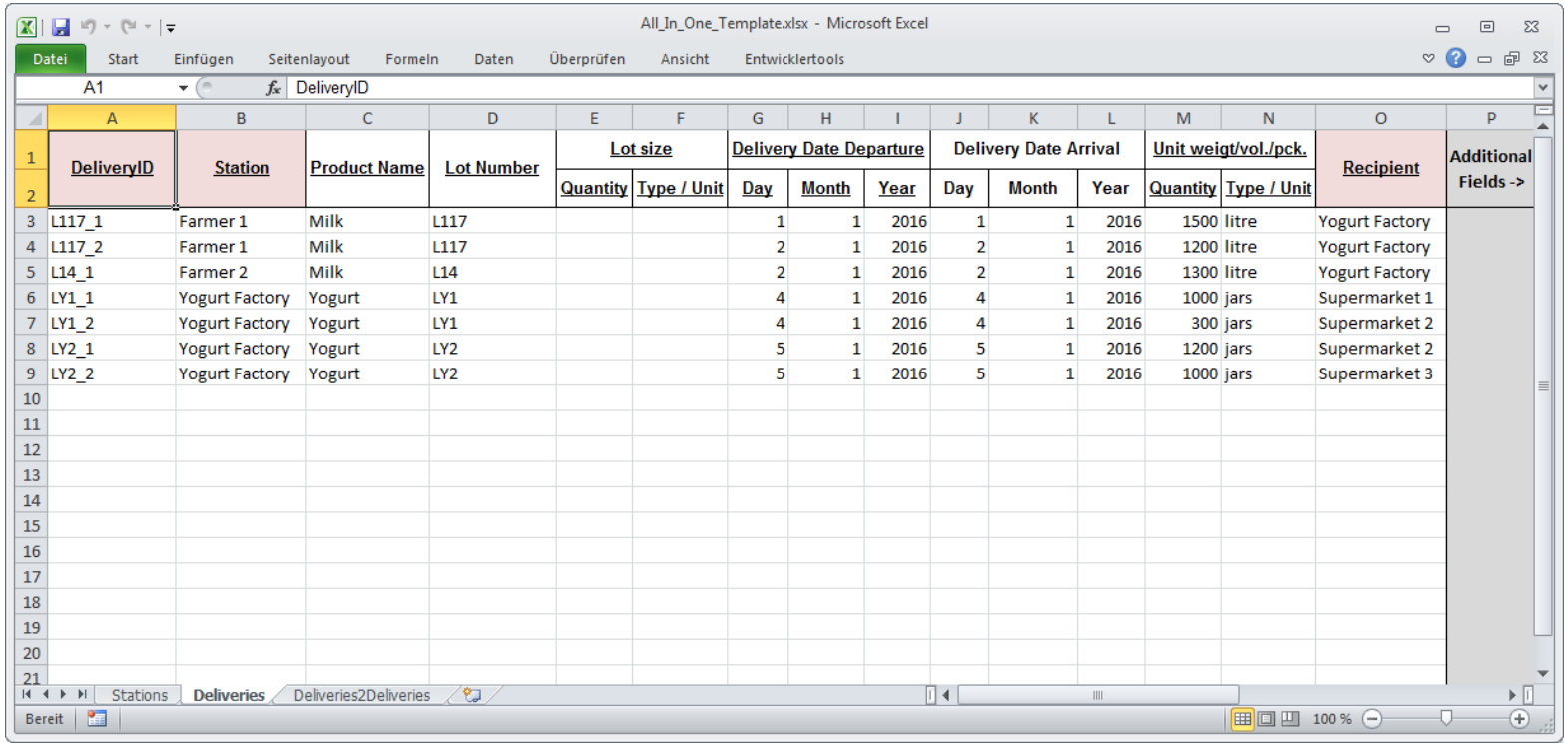


- Now select the **Deliveries2Deliveries** sheet.
- Here you can connect two deliveries from the previous sheet. In both columns you must enter **DeliveryIDs**.
- The **From**-delivery is a part/ingredient of the **To**-delivery. A contamination can spread from "**From**" to "**To**".



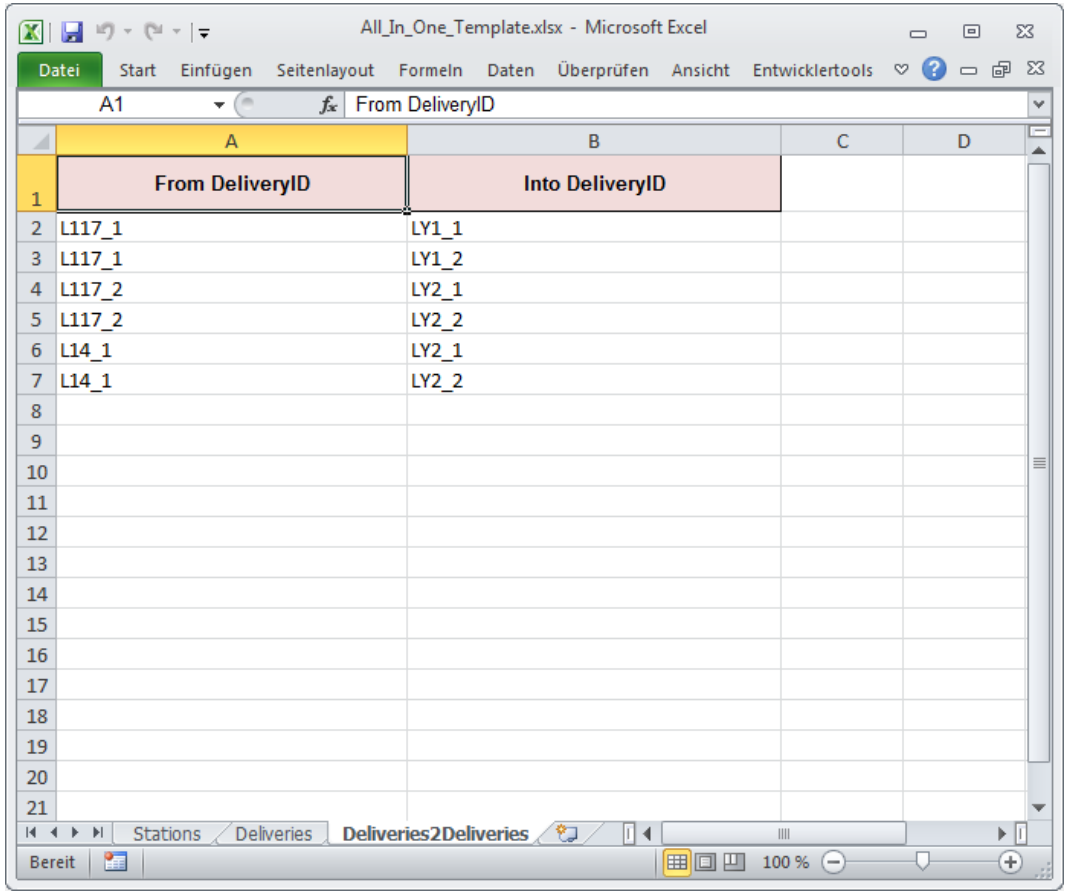
Company_ID	Name	Street	Street Number	Postal Code	City	District	State	Country	Type of business	Additional Fields ->
Farmer 1	Farmer 1	Country Rd	5	B33 8TH	Utterley			UK	Farm	
Farmer 2	Farmer 2	President Rd	14	W1A 0AX	Trumpton			UK	Farm	
Yogurt Factory	Yogurt Factory	Industry Street	3	M1 1AE	Harchester			UK	Producer	
Supermarket 1	Supermarket 1	Main Rd	6	B33 8TH	Scarfolk			UK	Supermarket	
Supermarket 2	Supermarket 2	Market Street	67	CR2 6XH	Ledshire			UK	Supermarket	
Supermarket 3	Supermarket 3	Seaside Boulevard	7	DN55 1PT	Walmington-on-Sea			UK	Supermarket	

- Switch back to the **Stations** sheet and enter the data from the screenshot.



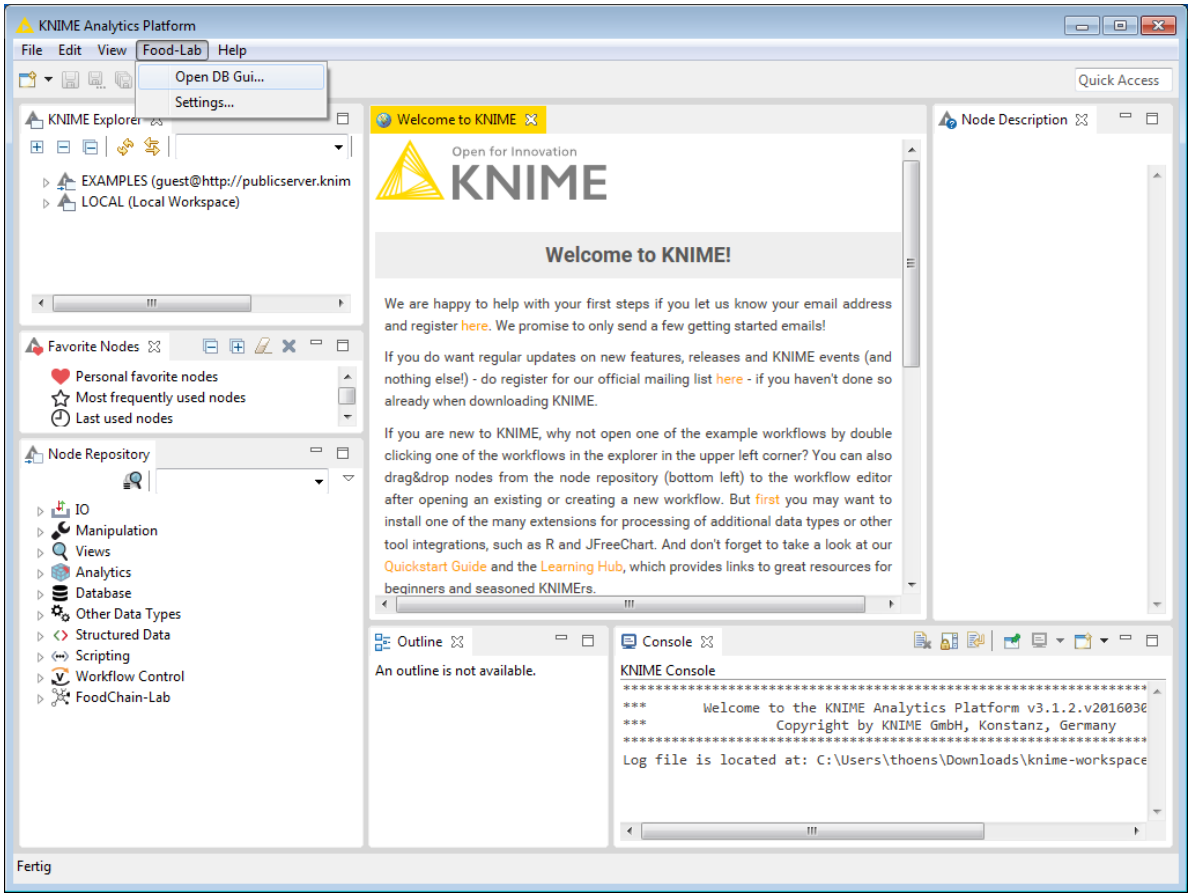
DeliveryID	Station	Product Name	Lot Number	Lot size		Delivery Date Departure			Delivery Date Arrival			Unit weigt/vol./pck.		Recipient	Additional Fields ->
				Quantity	Type / Unit	Day	Month	Year	Day	Month	Year	Quantity	Type / Unit		
L117_1	Farmer 1	Milk	L117			1	1	2016	1	1	2016	1500	litre	Yogurt Factory	
L117_2	Farmer 1	Milk	L117			2	1	2016	2	1	2016	1200	litre	Yogurt Factory	
L14_1	Farmer 2	Milk	L14			2	1	2016	2	1	2016	1300	litre	Yogurt Factory	
LY1_1	Yogurt Factory	Yogurt	LY1			4	1	2016	4	1	2016	1000	jars	Supermarket 1	
LY1_2	Yogurt Factory	Yogurt	LY1			4	1	2016	4	1	2016	300	jars	Supermarket 2	
LY2_1	Yogurt Factory	Yogurt	LY2			5	1	2016	5	1	2016	1200	jars	Supermarket 2	
LY2_2	Yogurt Factory	Yogurt	LY2			5	1	2016	5	1	2016	1000	jars	Supermarket 3	

- Switch to the **Deliveries** sheet and enter the data from the screenshot.
- The "Yogurt Factory" produces two lots of yogurt. Milk from delivery "L117_1" is used for the first lot ("LY1") and milk from deliveries "L117_2" and "L14_1" is used for the second lot ("LY2"). This ingredient information will be entered in the next sheet.

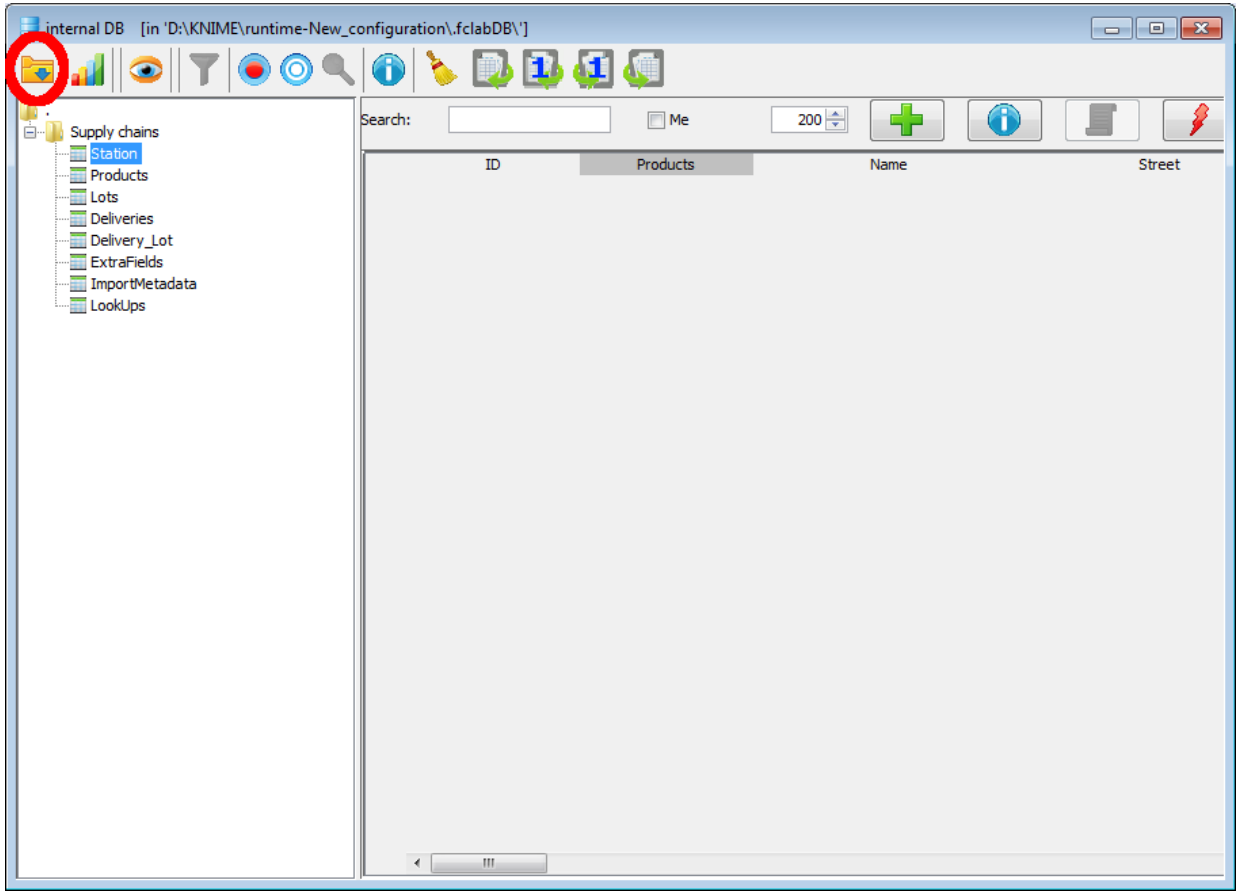


From DeliveryID	Into DeliveryID
L117_1	LY1_1
L117_1	LY1_2
L117_2	LY2_1
L117_2	LY2_2
L14_1	LY2_1
L14_1	LY2_2

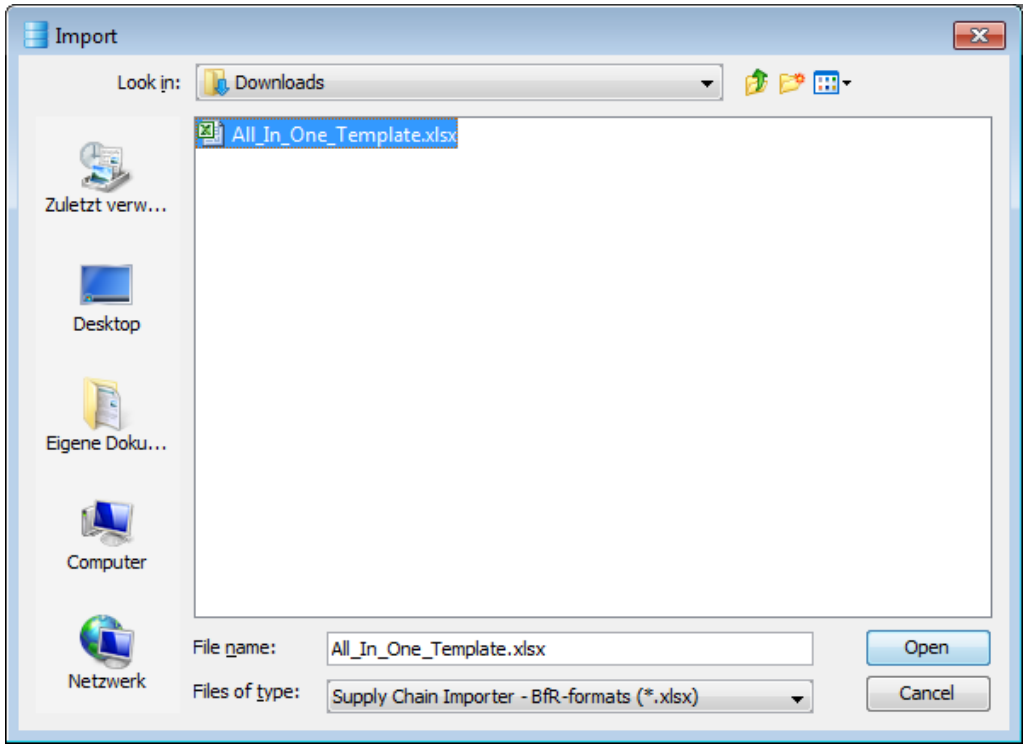
- In this sheet you can only reference deliveries and not lots.
- Therefore we have to connect "L117_1" to both deliveries of lot "LY1" ("LY1_1" and "LY1_2").
- And "L117_2" and "L14_1" have to be connected to both deliveries of lot "LY2" ("LY2_1" and "LY2_2").



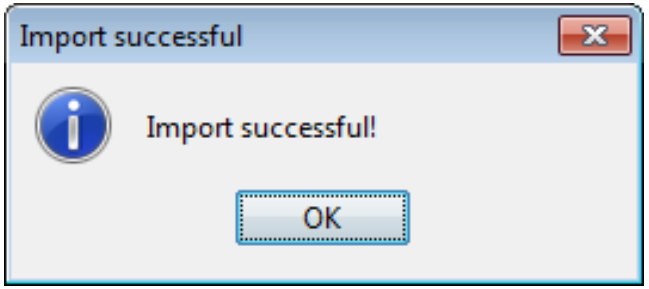
- After entering all data in the template, please open KNIME now.
- Then select **Food-Lab** > **Open DB Gui...** in the menu bar to open the database interface.



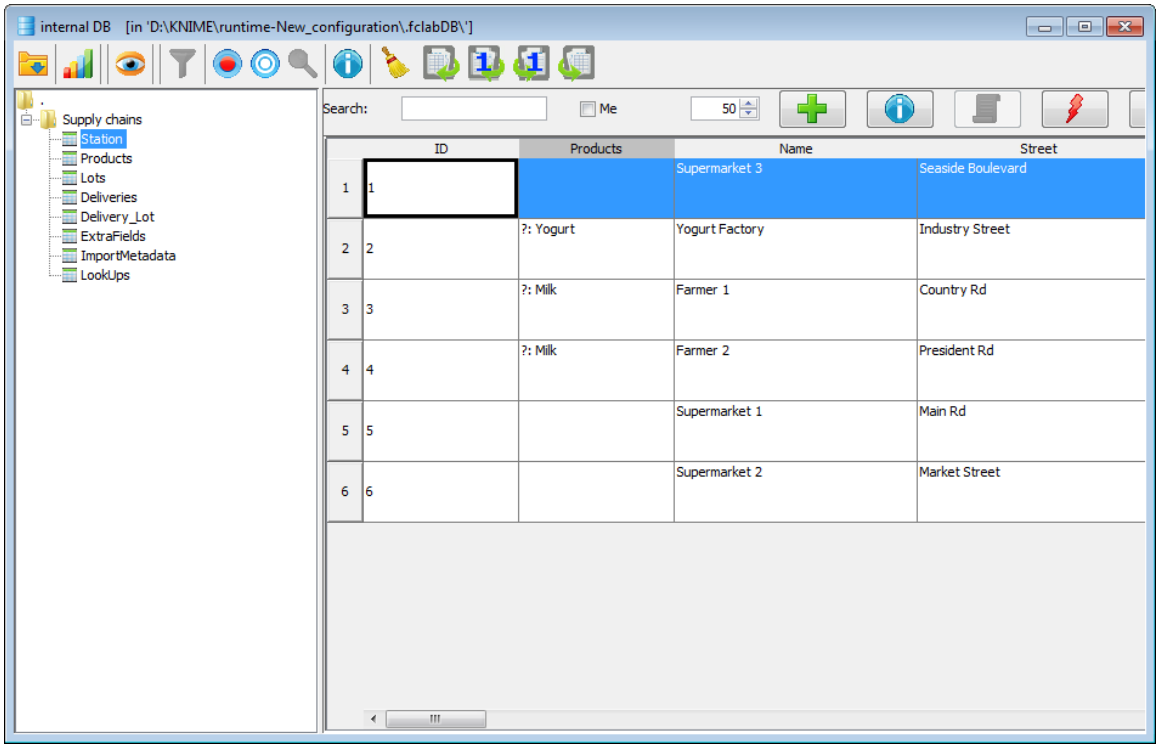
- To import this file click on the **Table import** button in the upper left corner of the database interface.



- In the file dialog that appears, select "All_In_One_Template.xlsx" and press **Open**.



- You'll see a message that the import was successful.
- Press **OK**.



- In the database interface you'll notice, that there is now data in the tables.