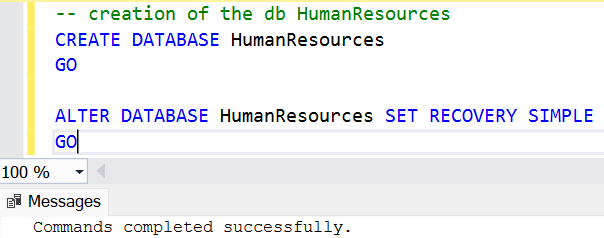
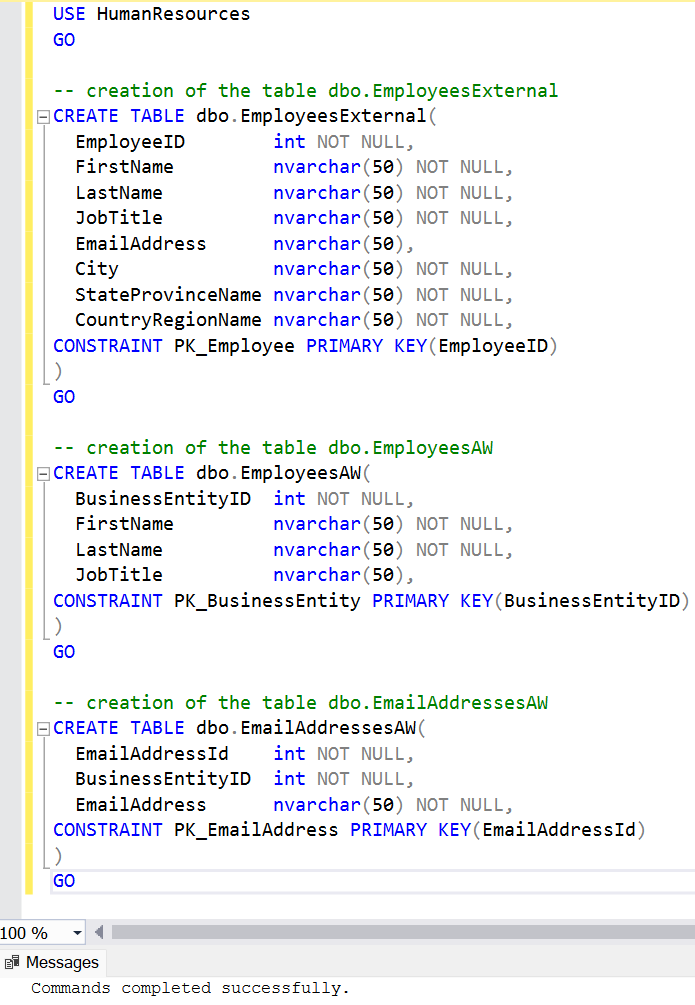
U3M3.LW.Implementing Data Flow

Mastykina Elizaveta

**1.1. Exercise 1: Creating new database for HR department**

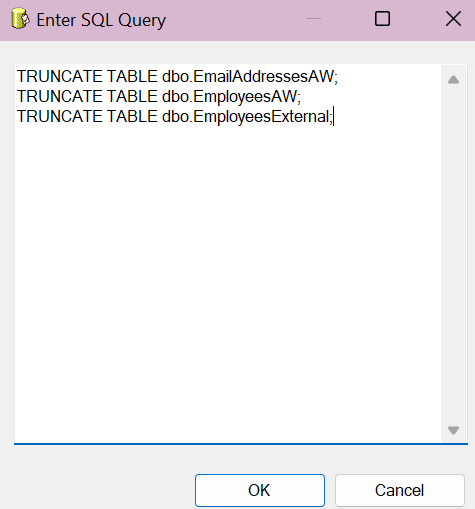




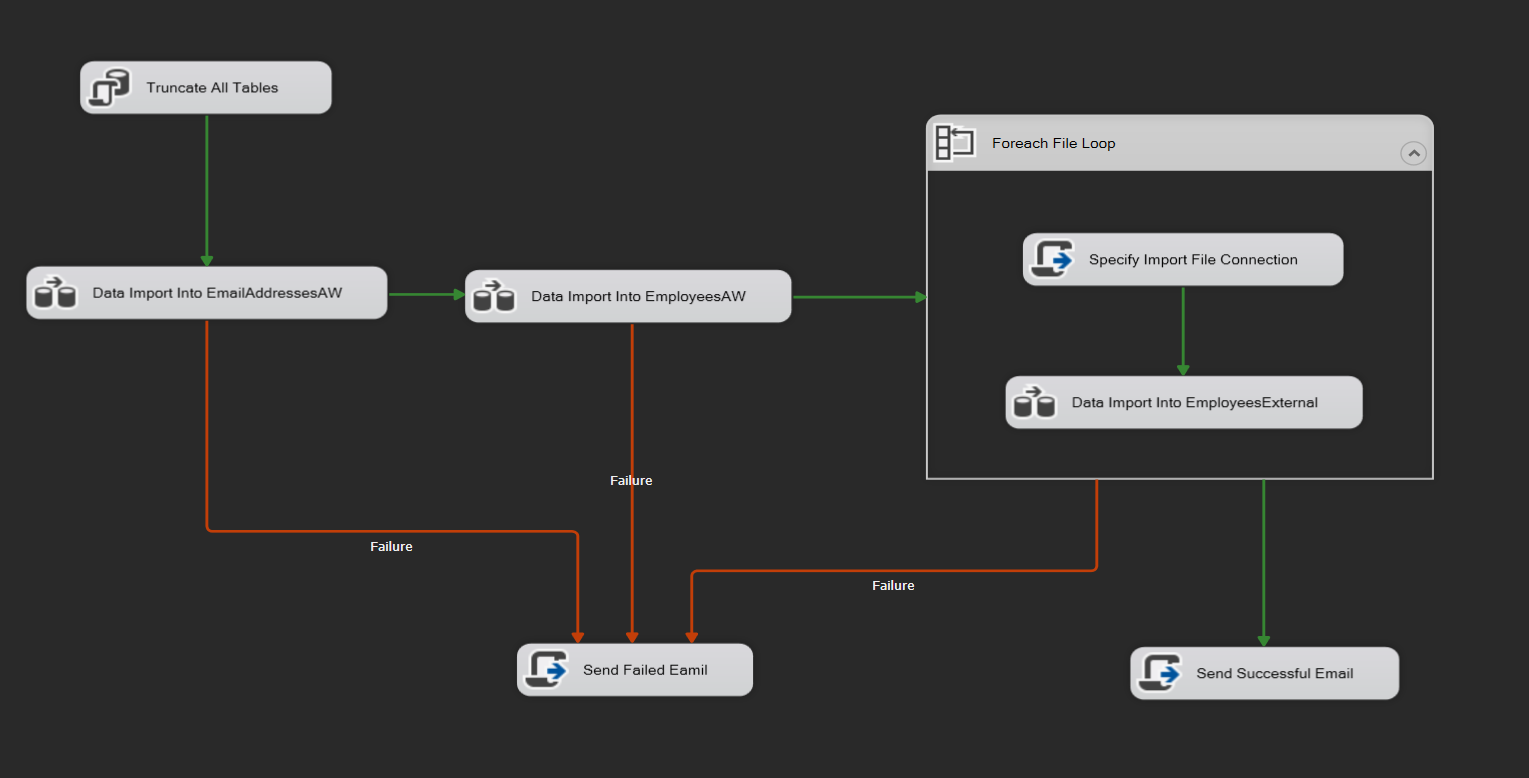
**2. Exercise 2: Creating ETL solution to import employees from different sources**

At the first step we truncate all destination tables to make our process repeatable.

To achive this goal we create Exequte SQL Task component on Control Flow with the next Query:

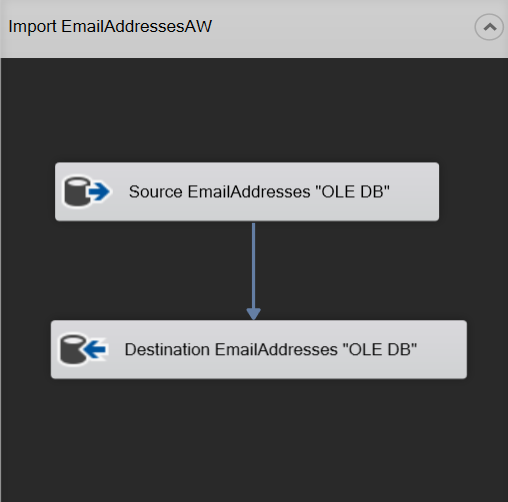
****

Then we organize Control Flow Logic:

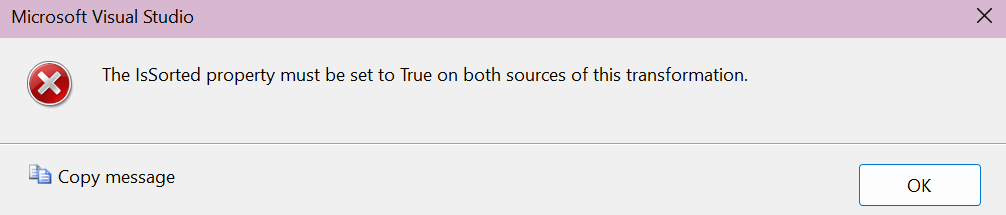


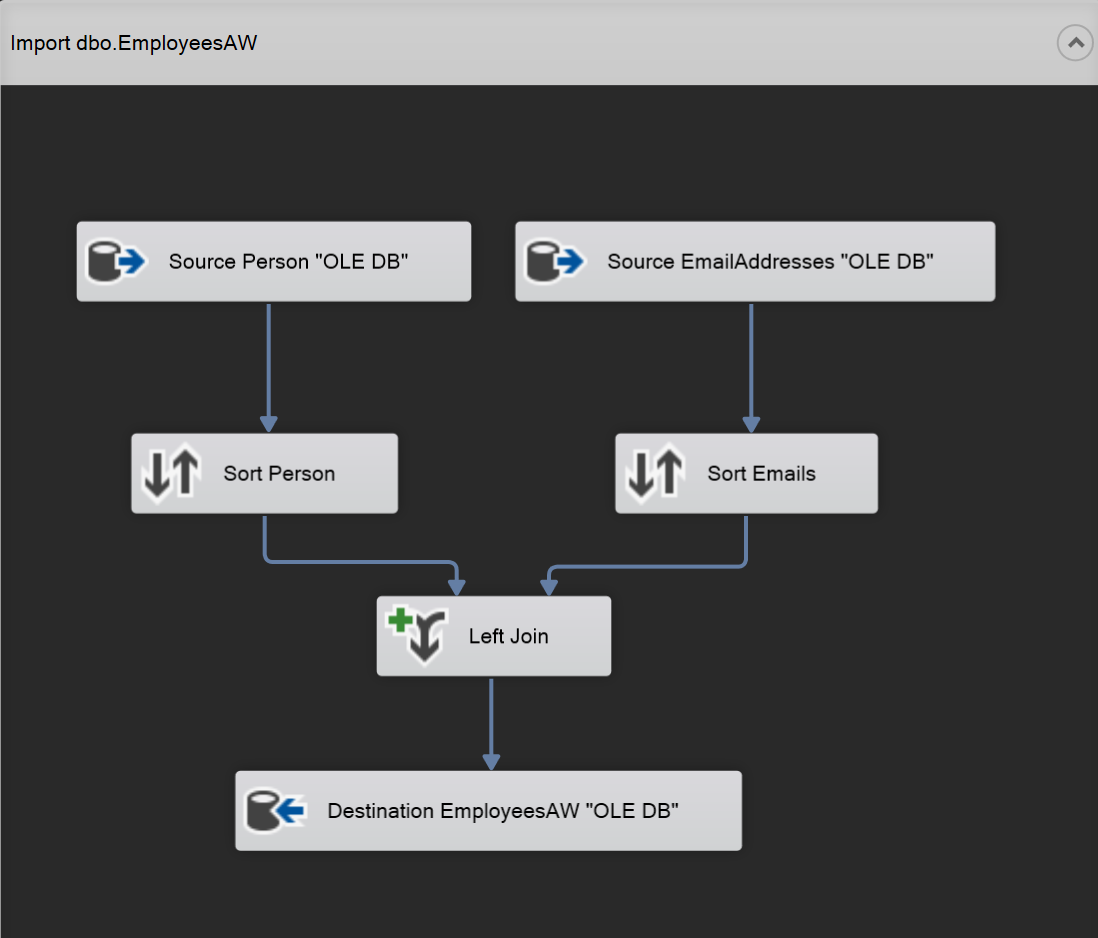
**Lets look in details on each dataflow component:**

* **Data Import Into EmailAddressesAW**

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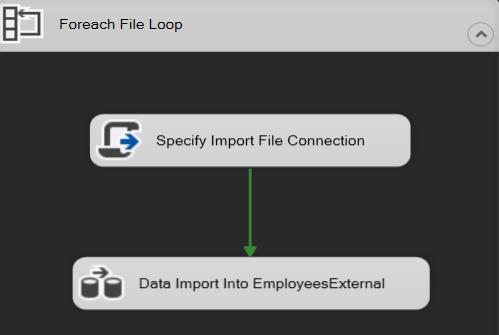
* **Data Import Into EmployeesAW**

Here we use Left Join to merge two source tables. It was nessasary to use sort, cause I receive the following error:

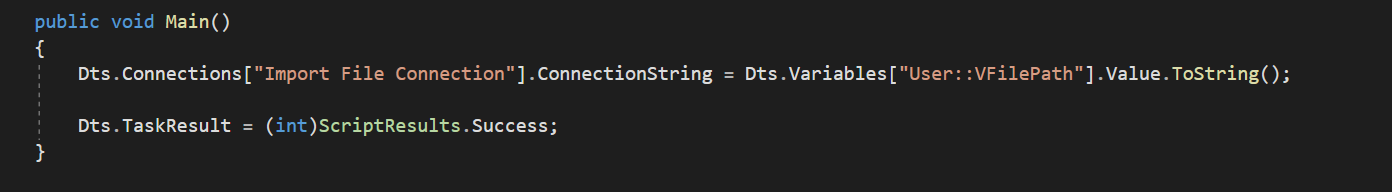
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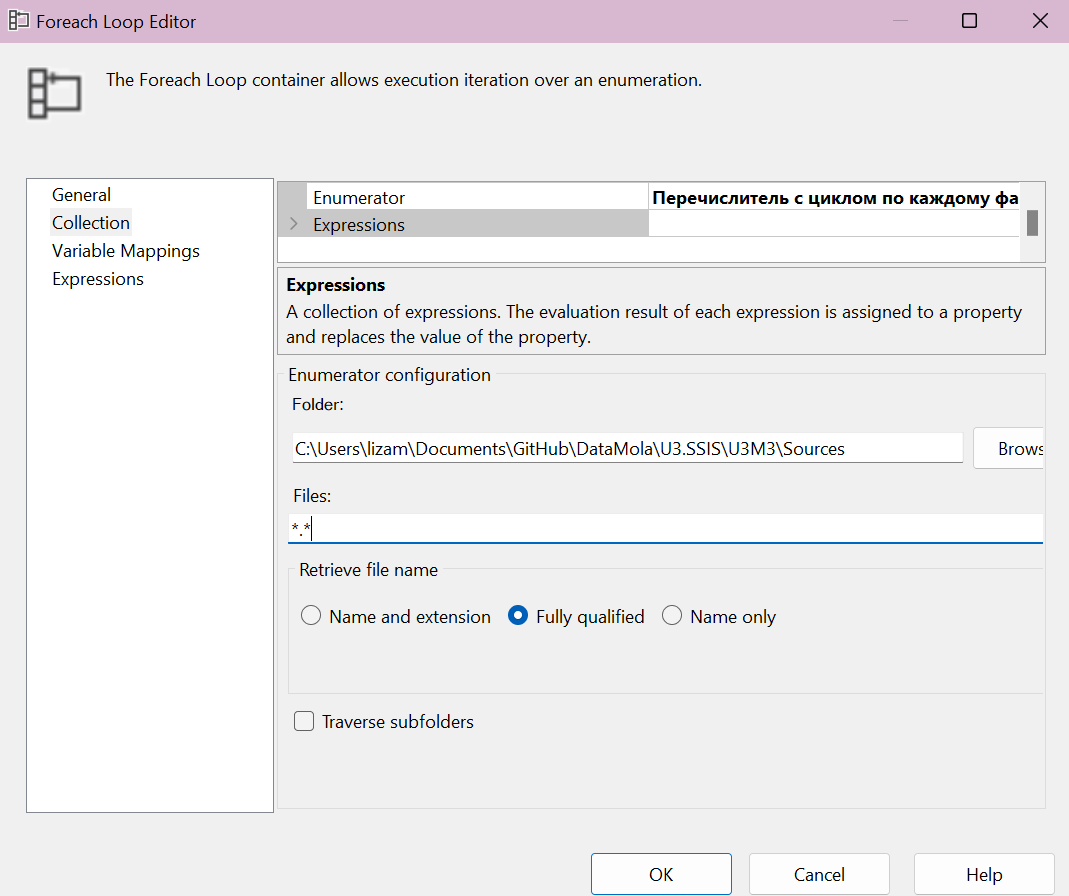
* **Data Import Into EmployeesAW**

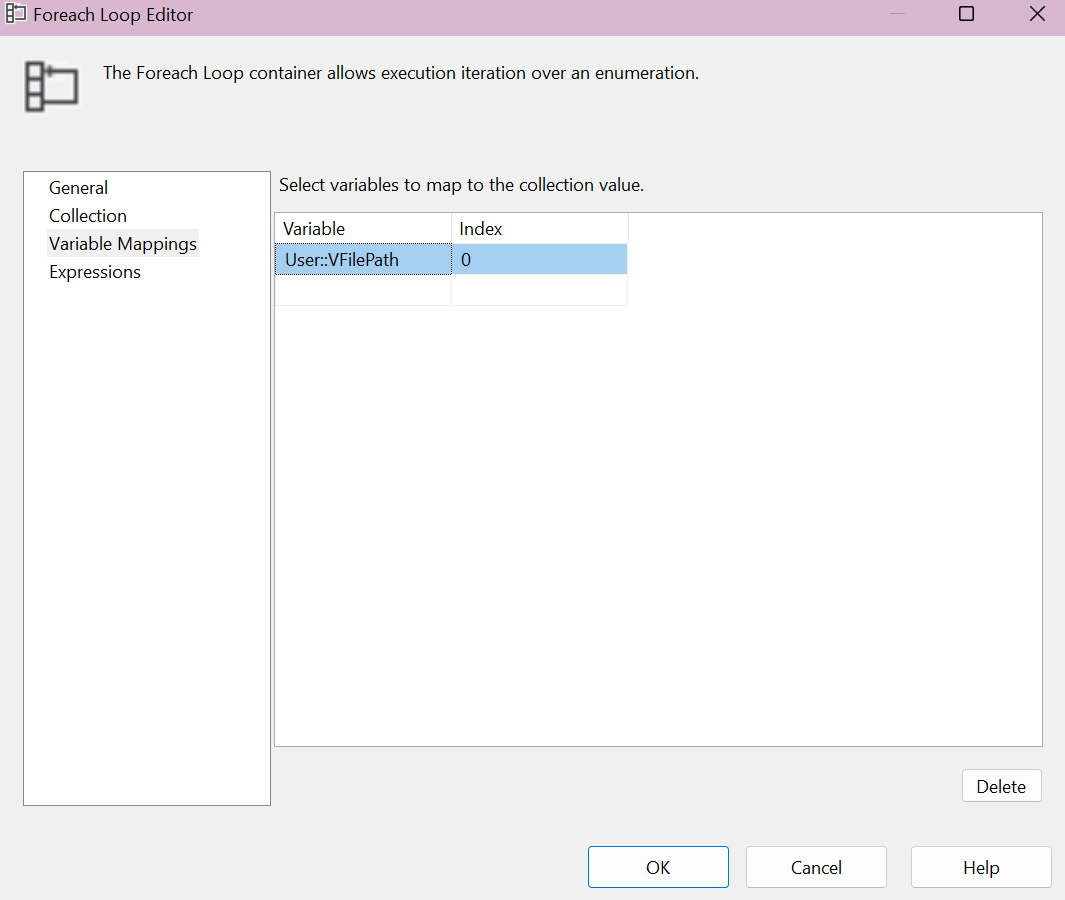
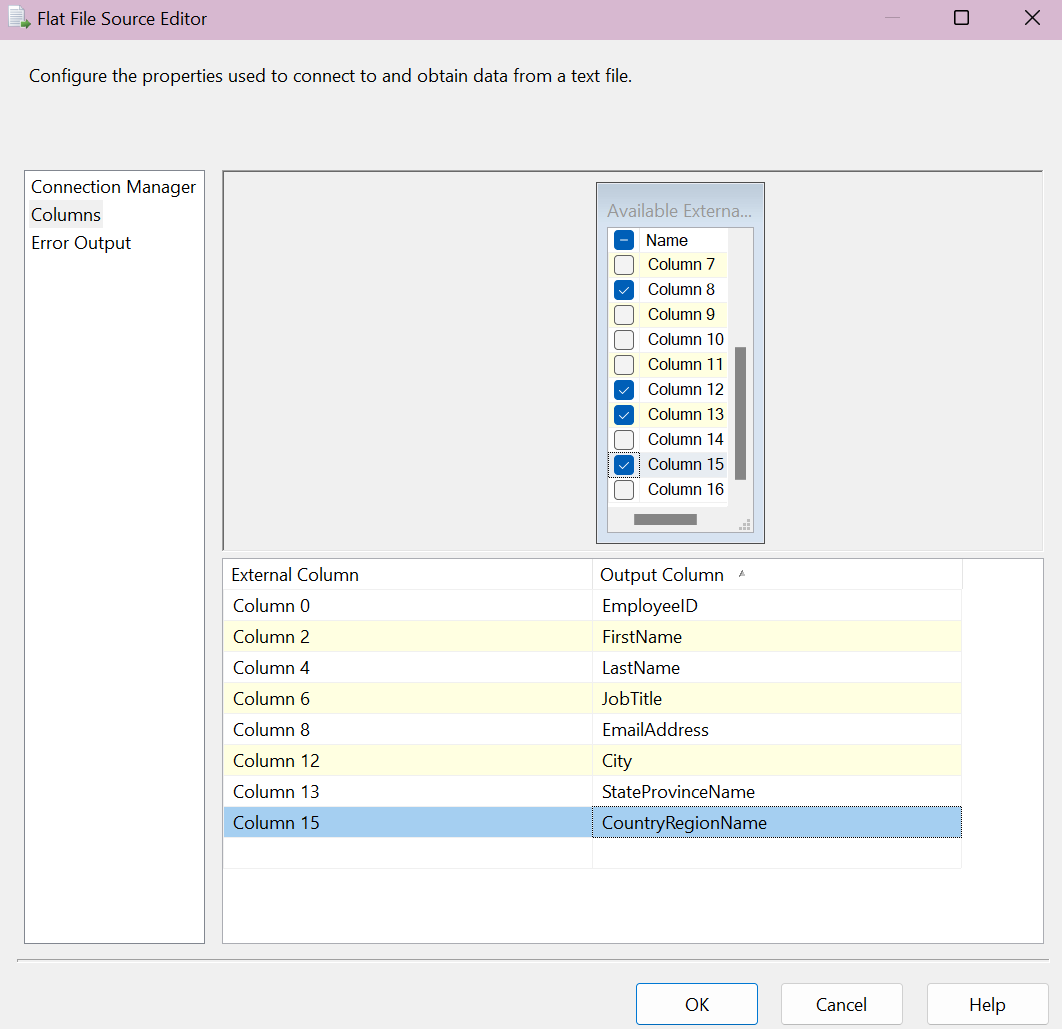
As we can see the process is based on looping through source dirrectory, on each iteration we identify source file name:



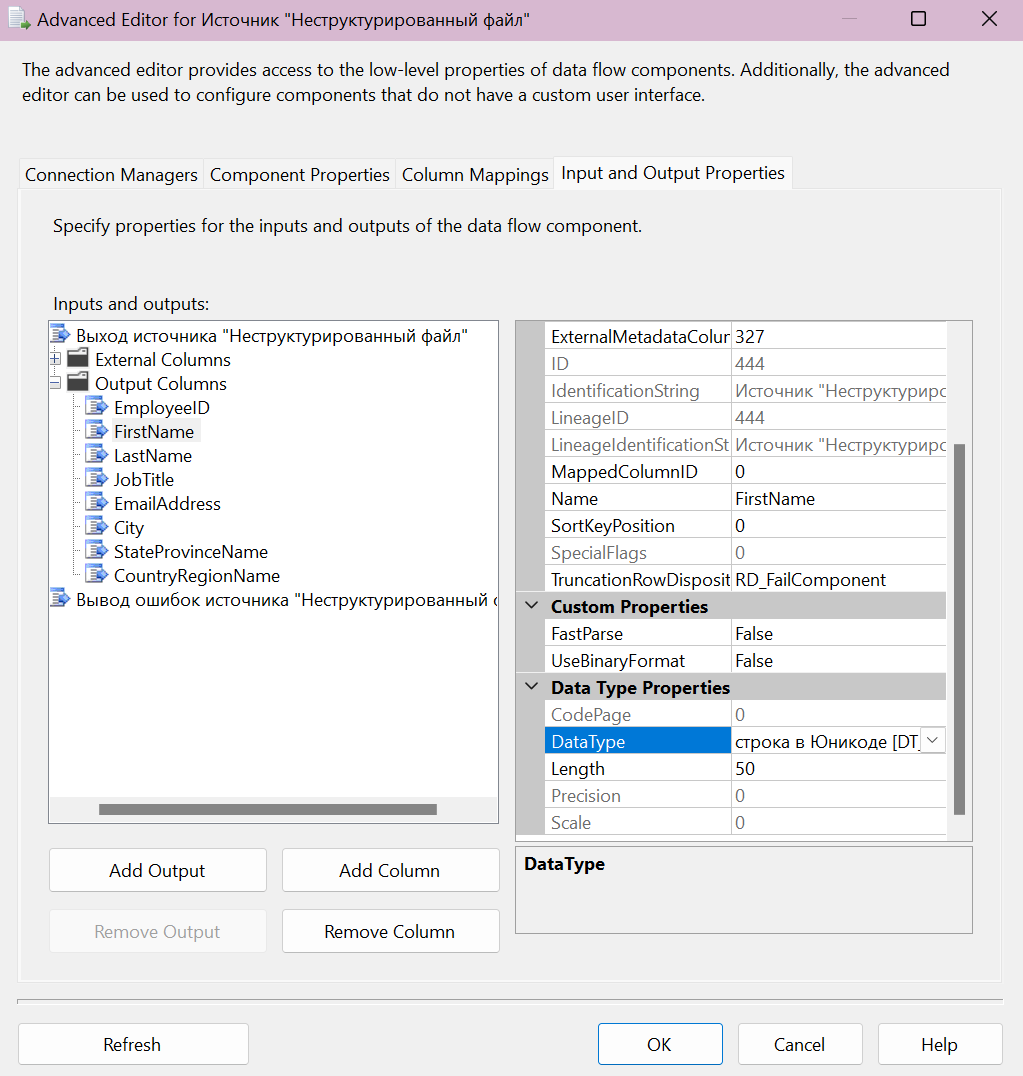
I decided to write short script to configure Input Flat File connection dinamicly:

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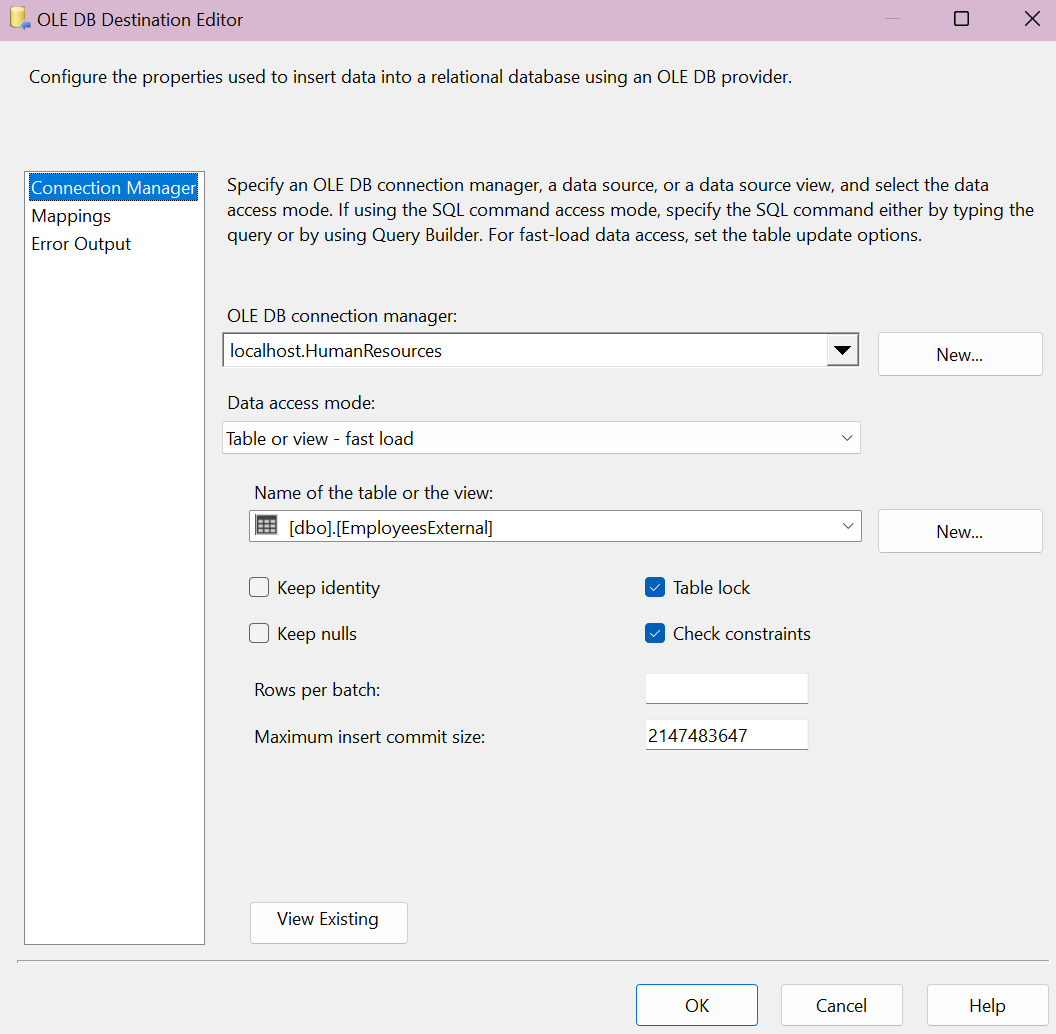
****

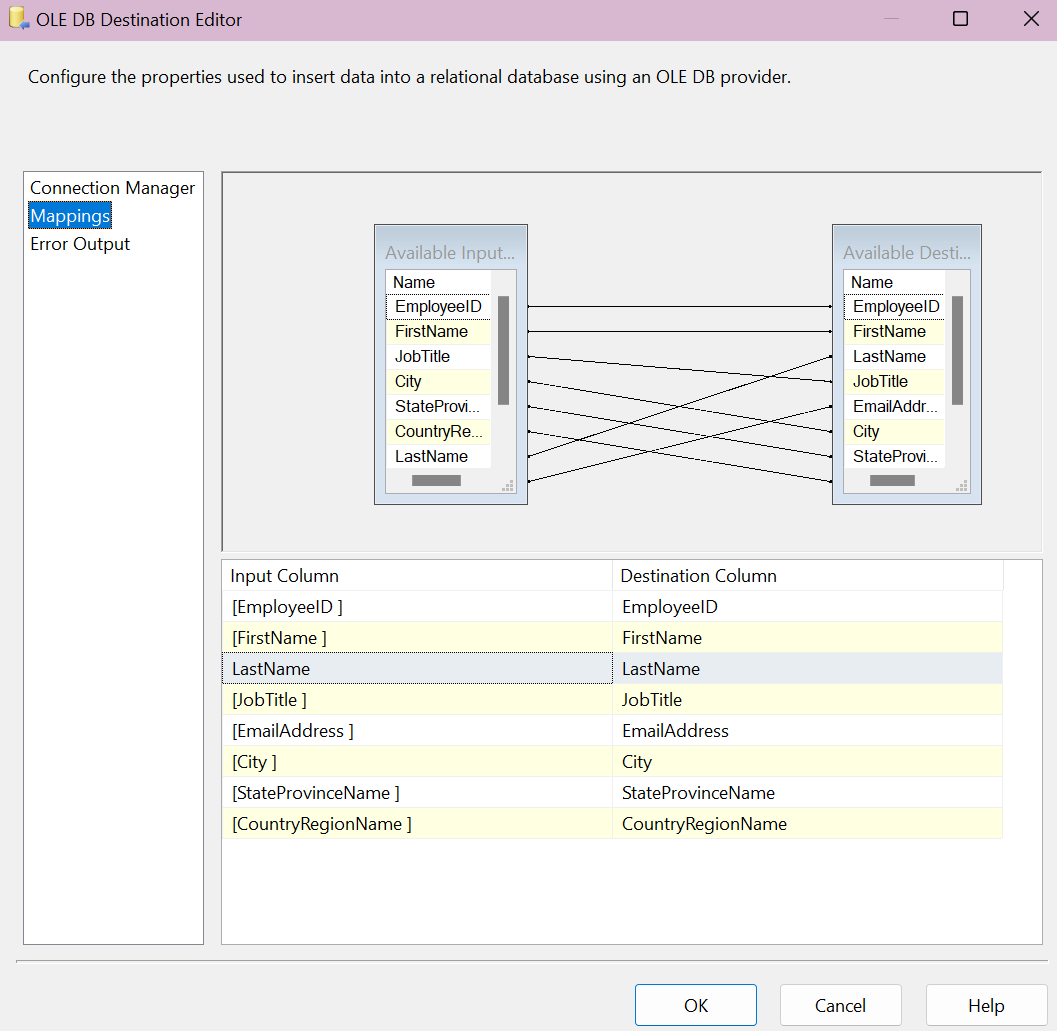
****

It was obligatory to configure DataType of each column to avoid encoding error:

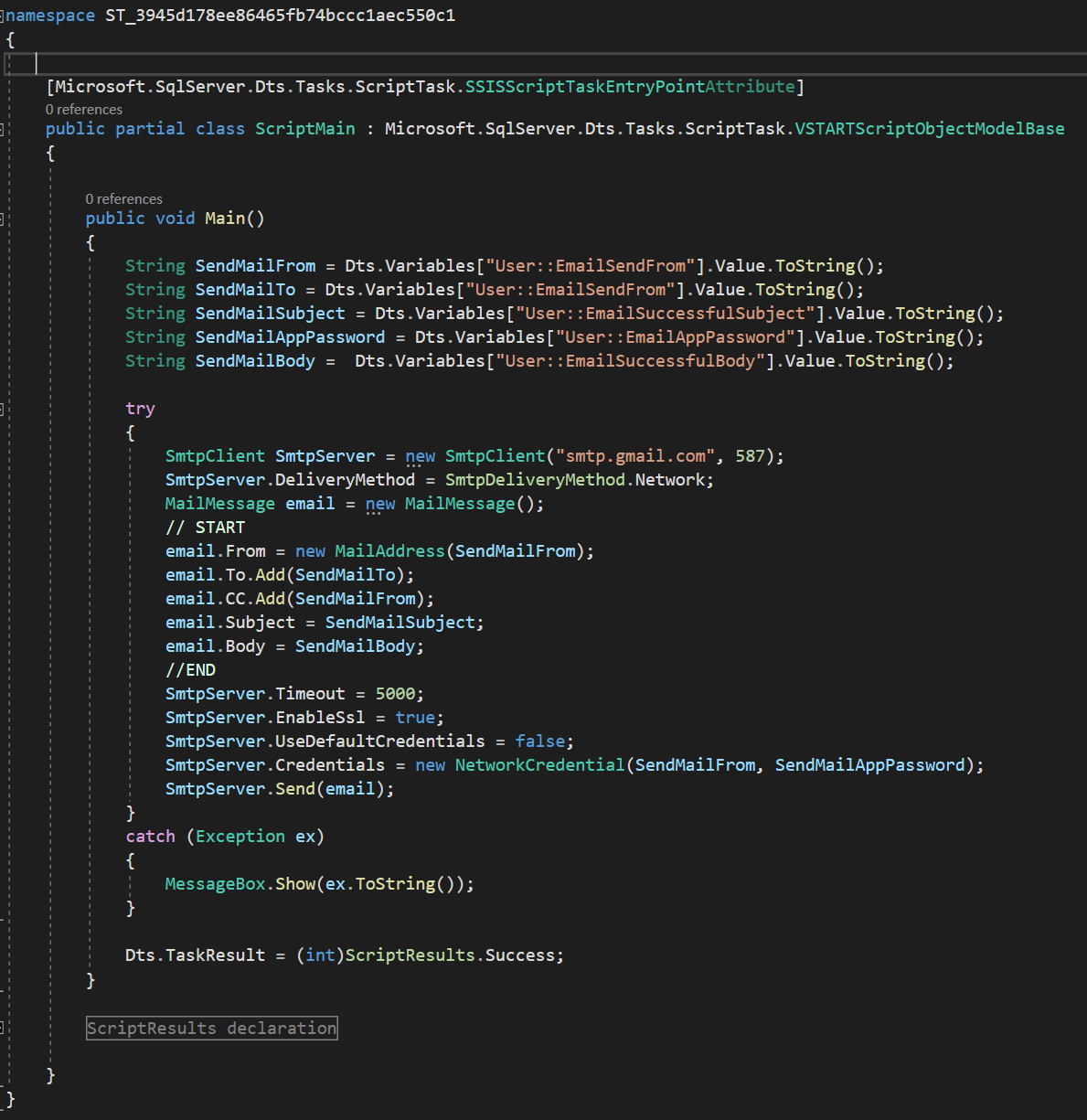
****

Then we config Destination Table in DB:

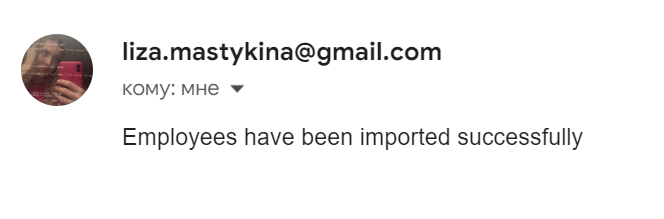
****

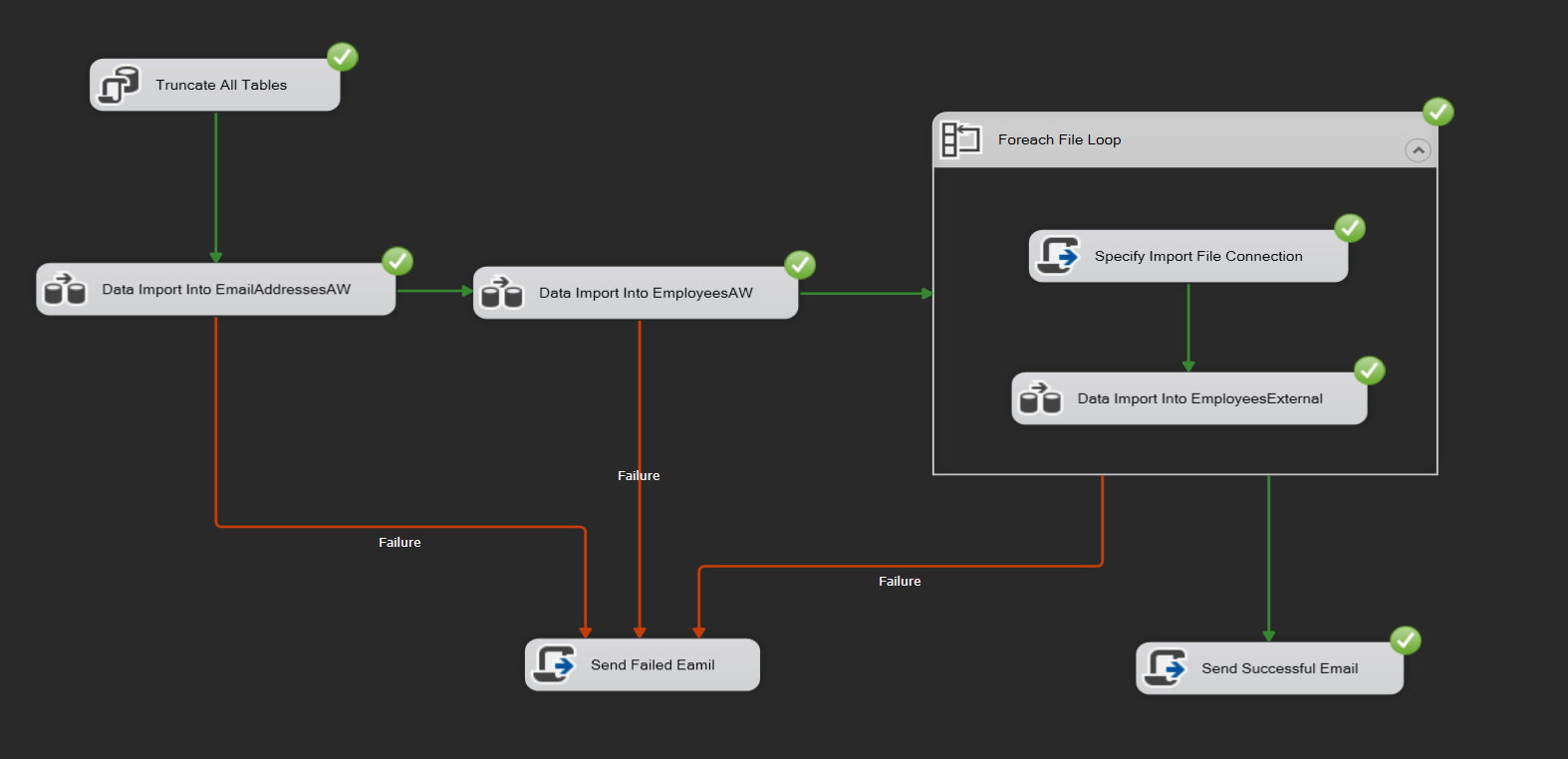
****

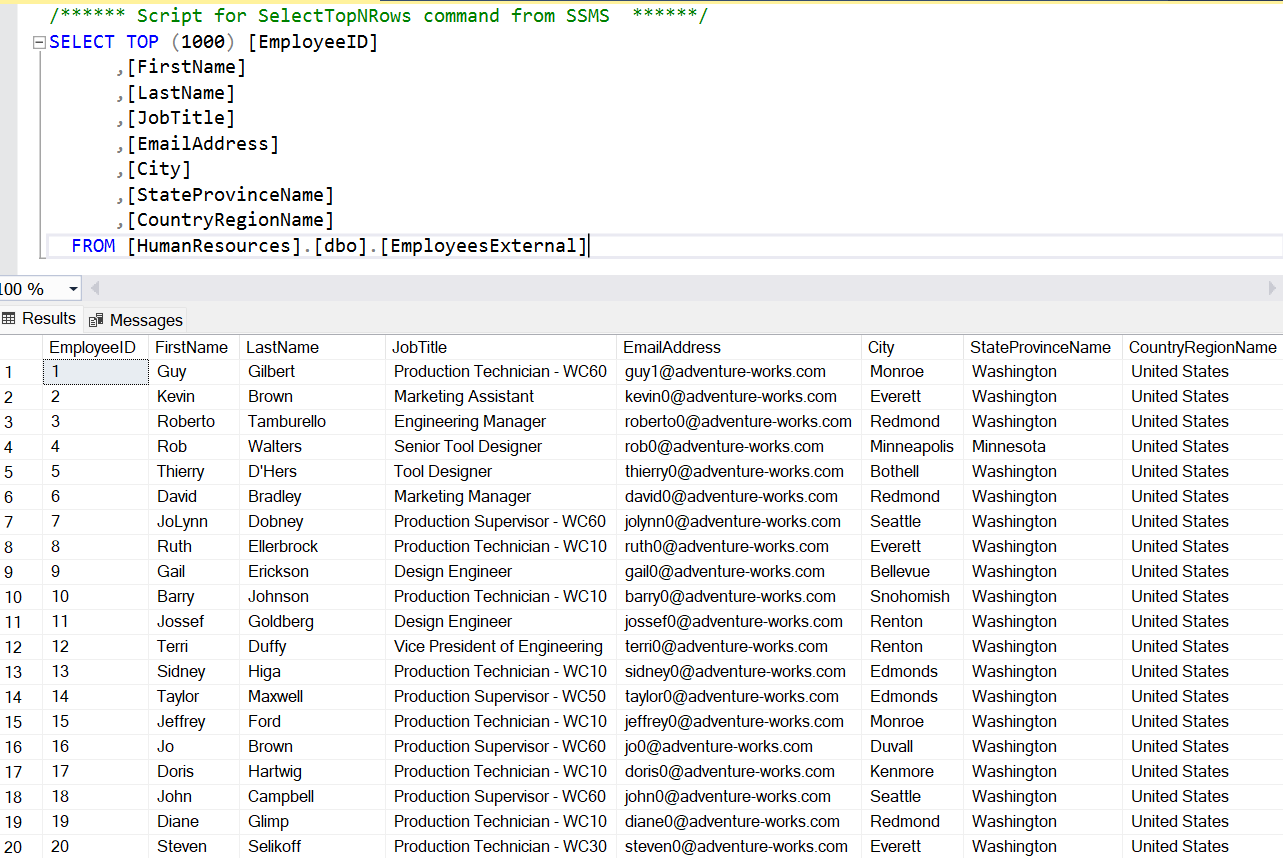
Script to send email:

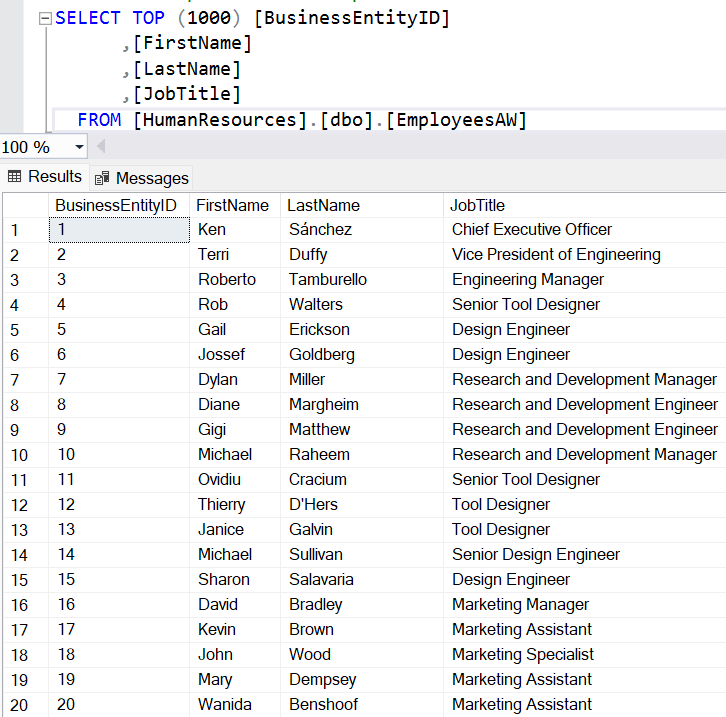


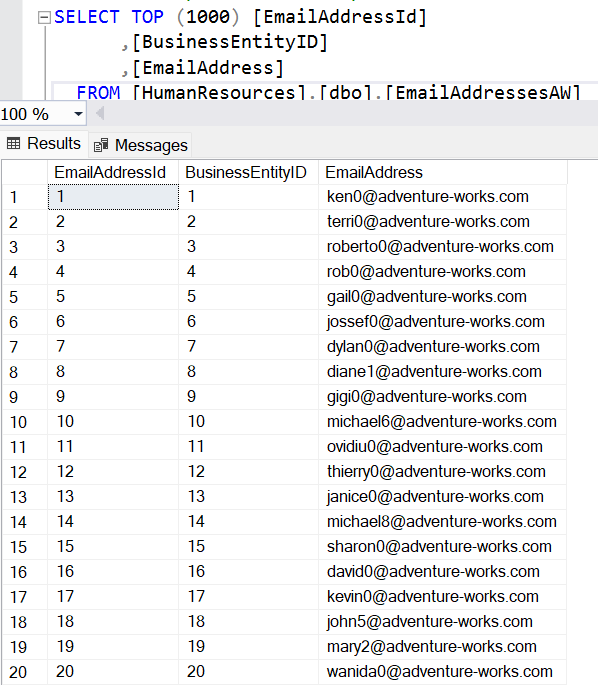
Results:



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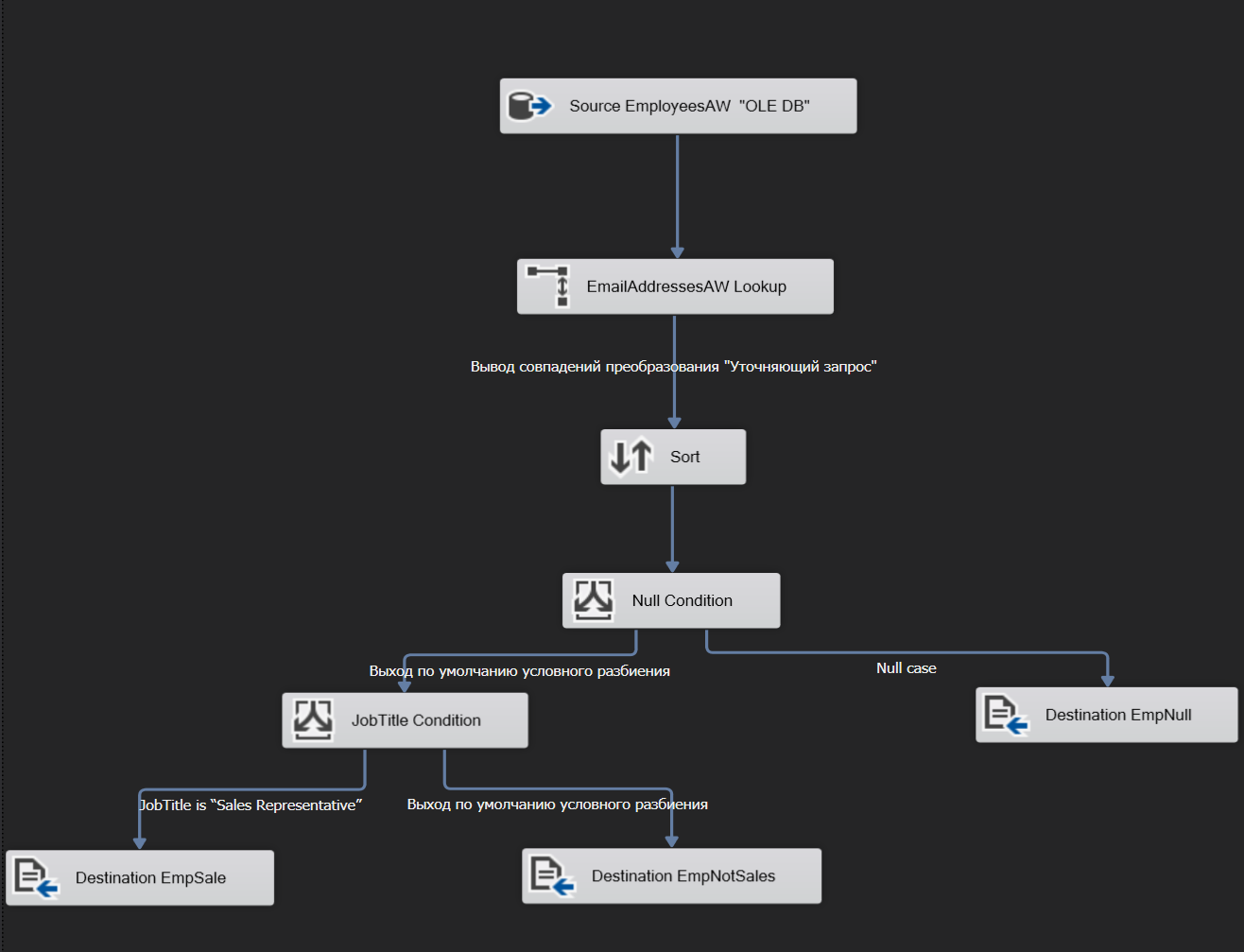
****

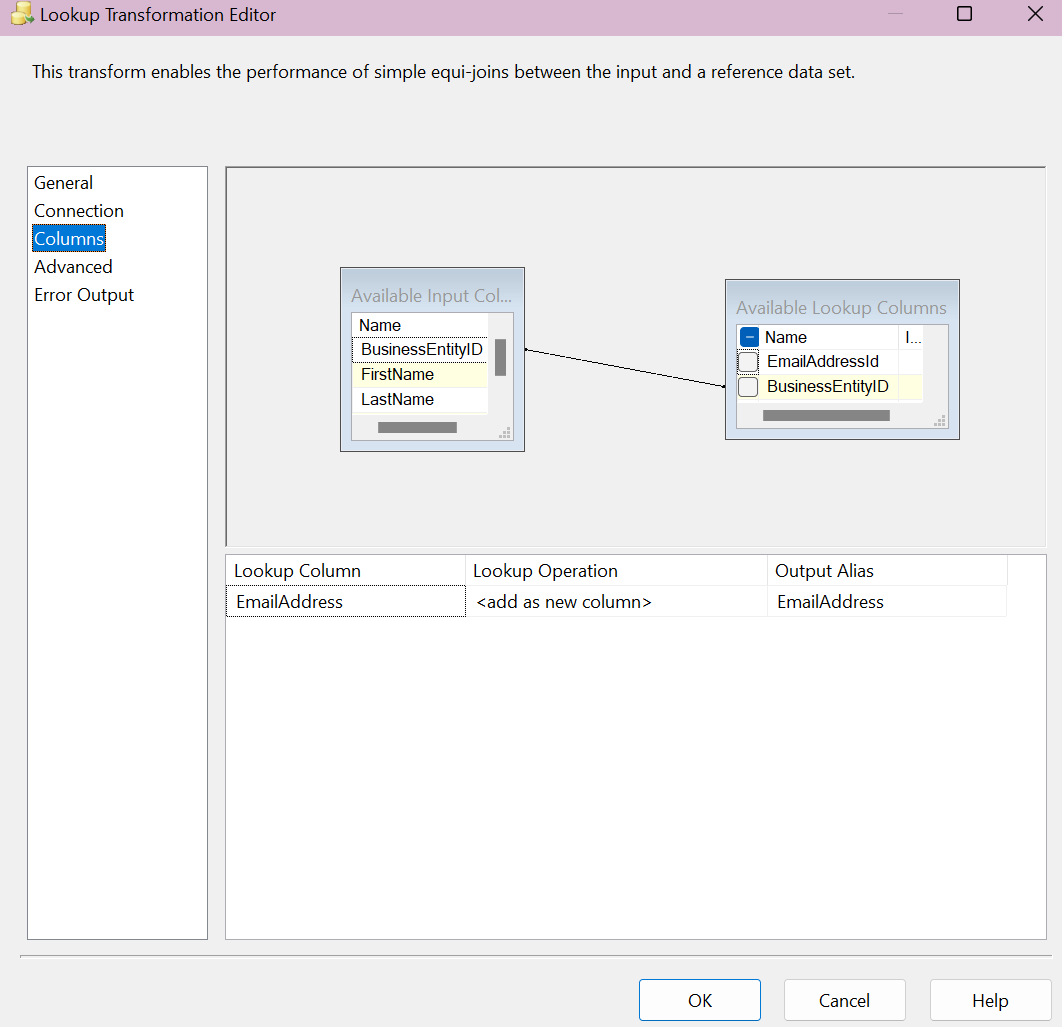
****

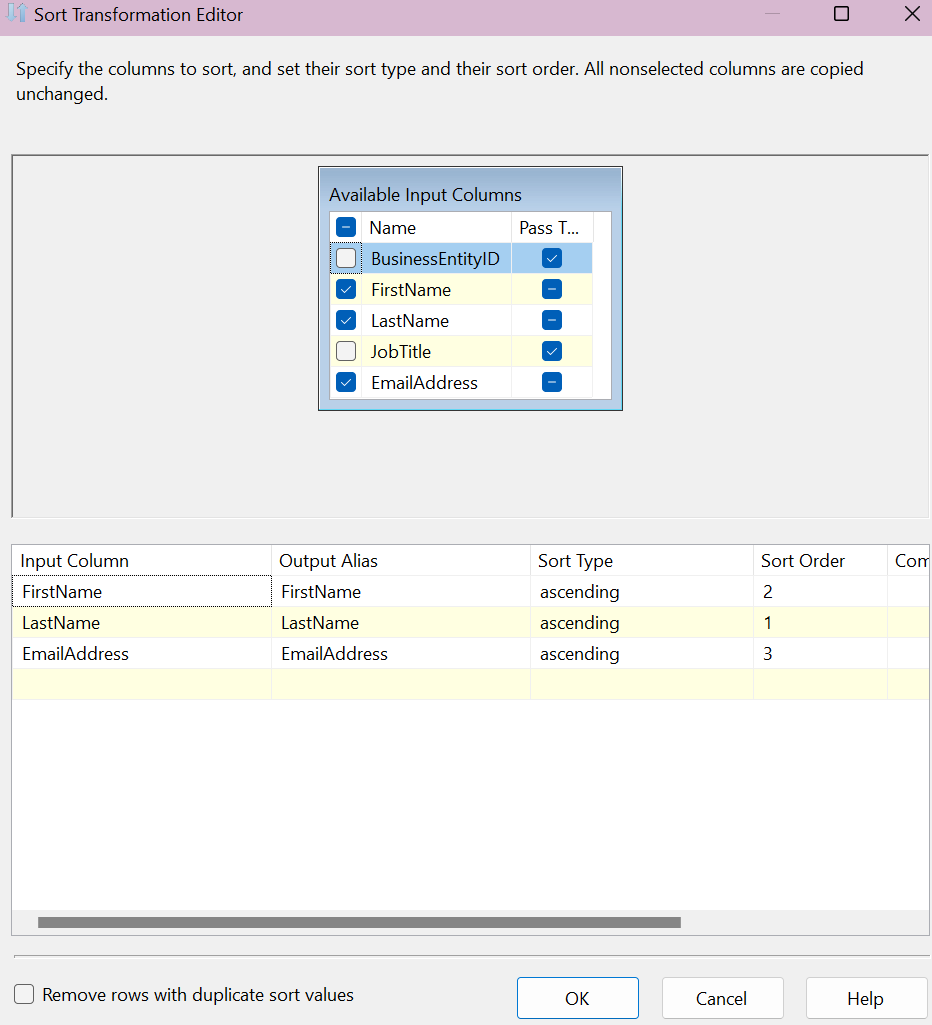
****

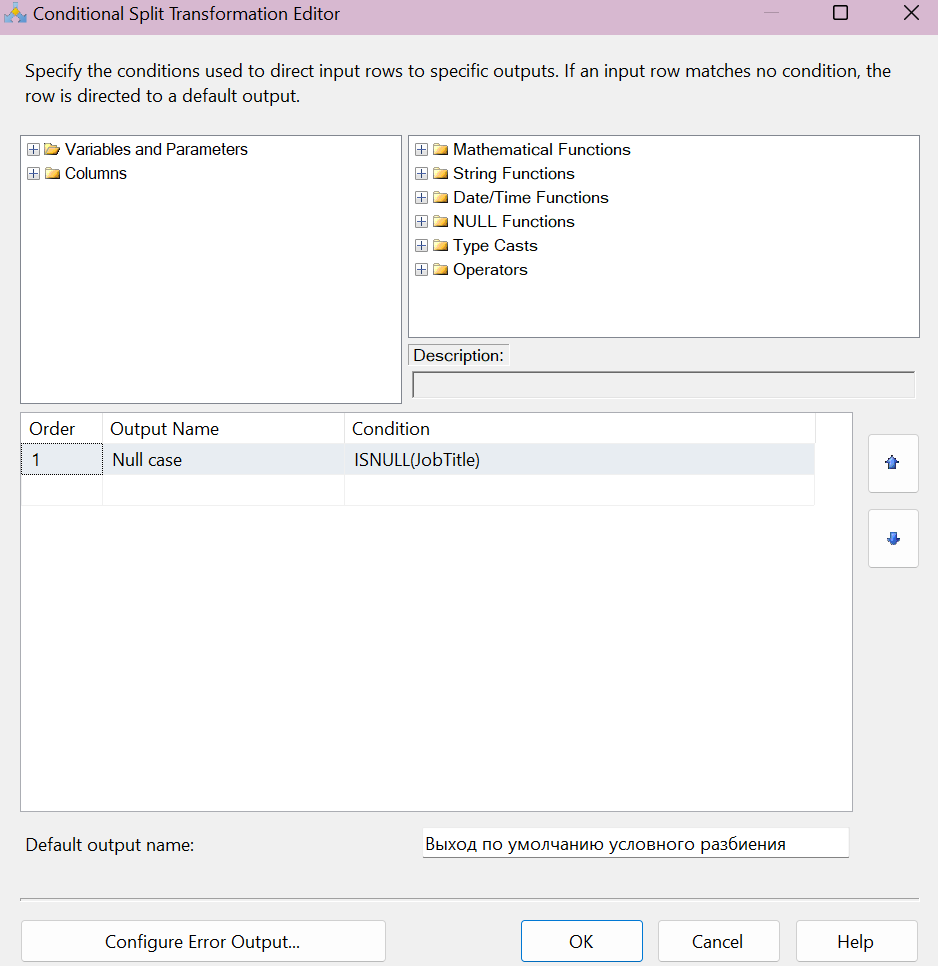
**3. Exercise 3: Creating ETL solution to export the data from HumanResourcesdb**

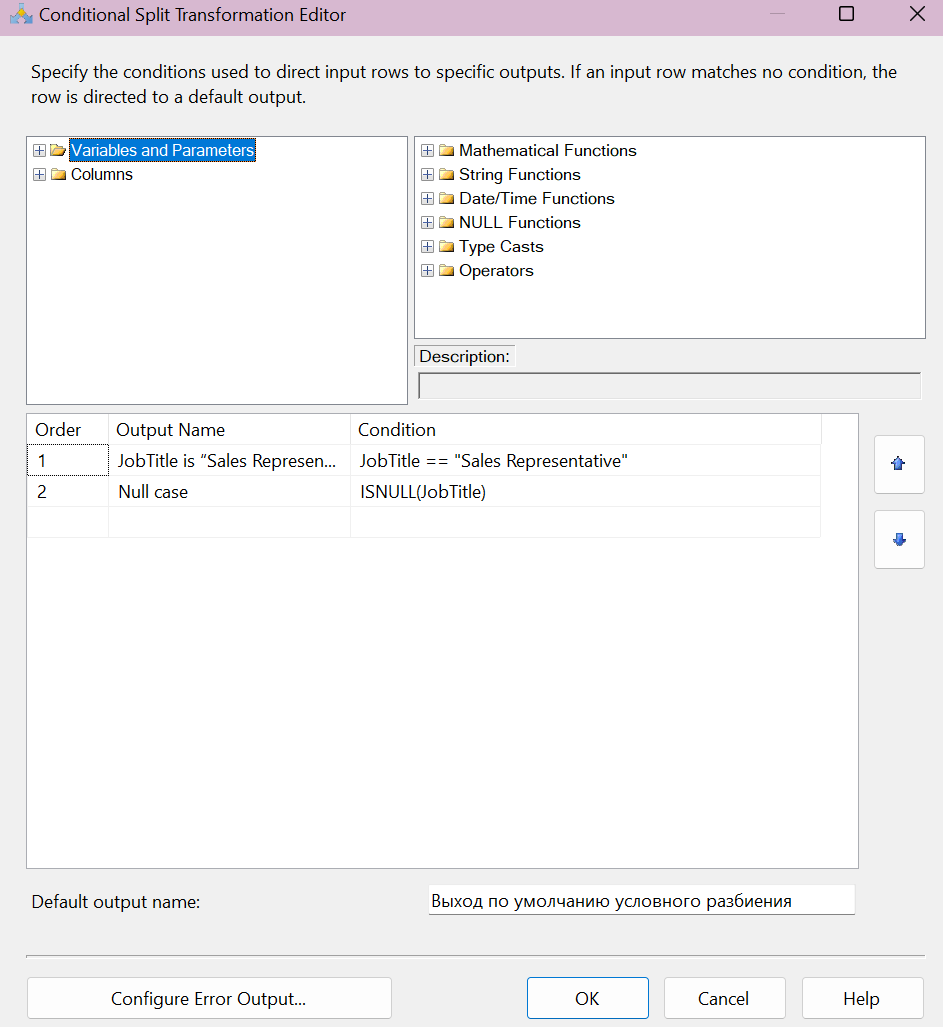
Here I decided to use additional Null Condition, cause In Source Table Its acceptable to have JobTitle as Null value. We load such records in file EmpNull.txt.

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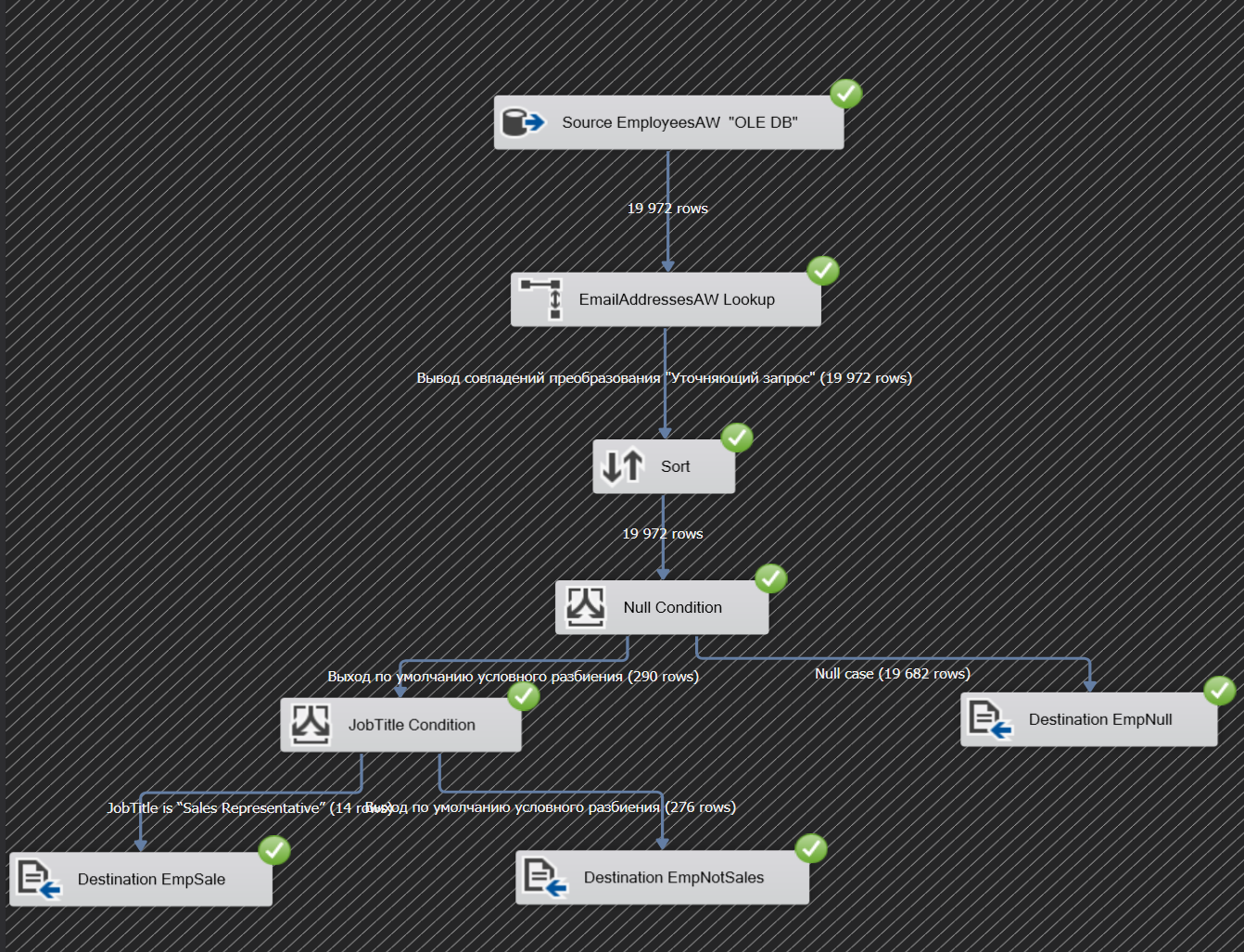
****

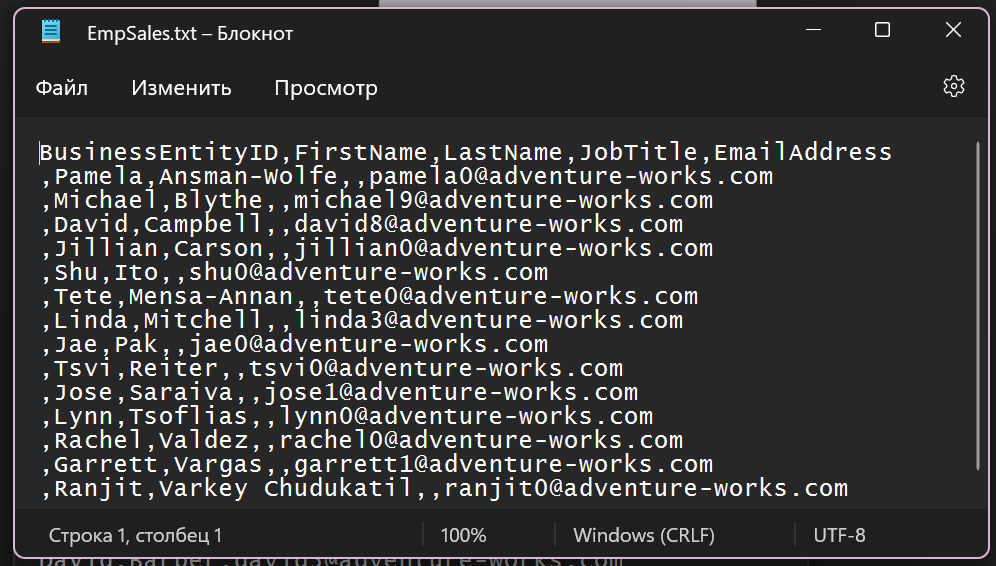
****

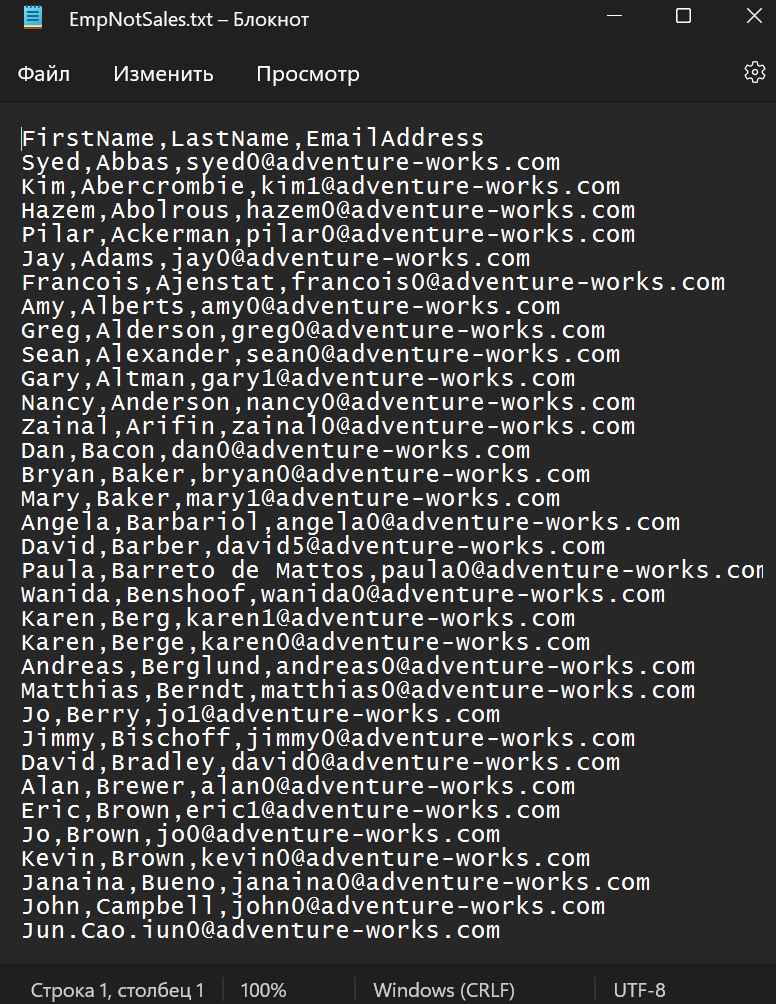
****

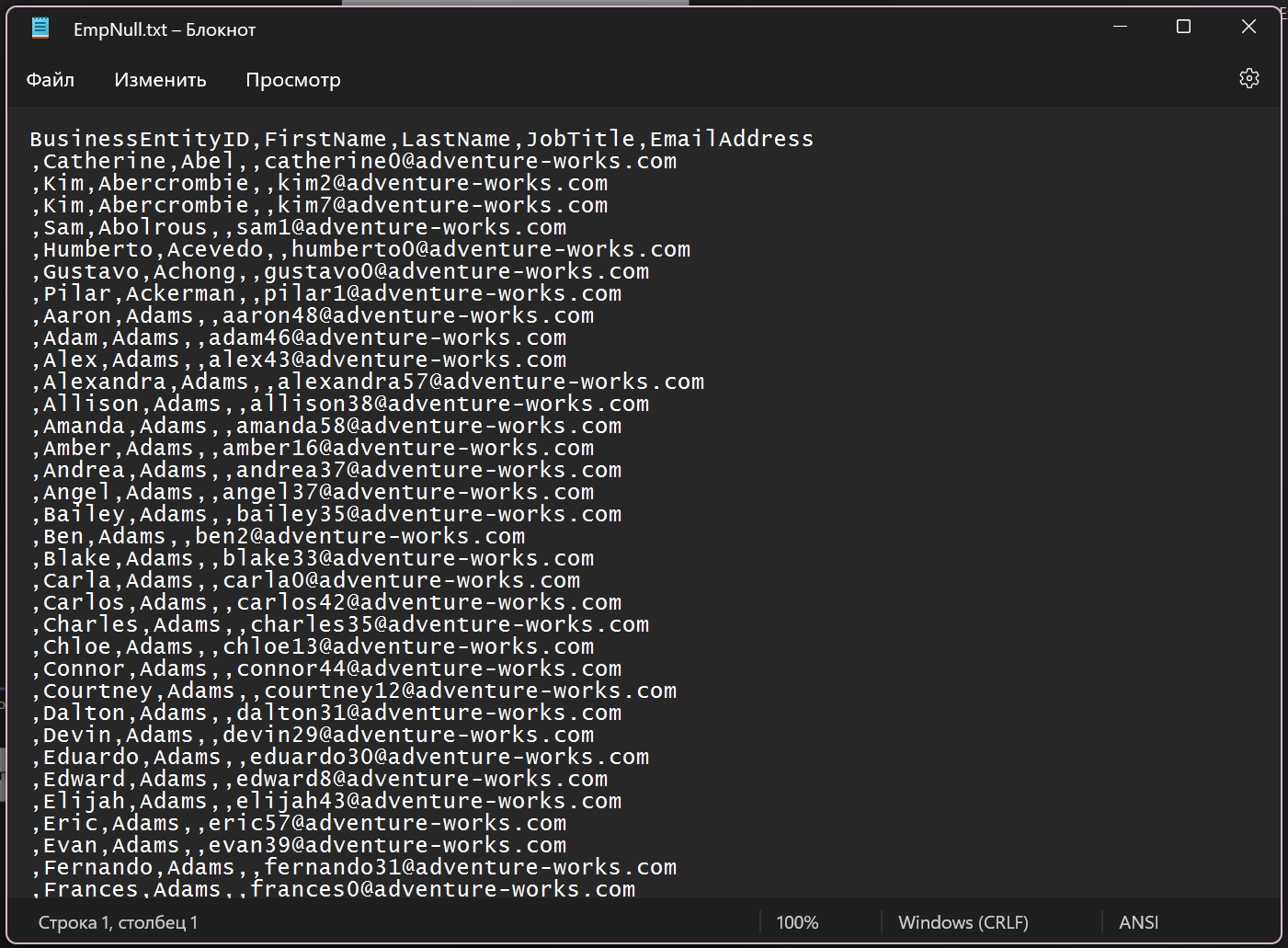
****

Results:

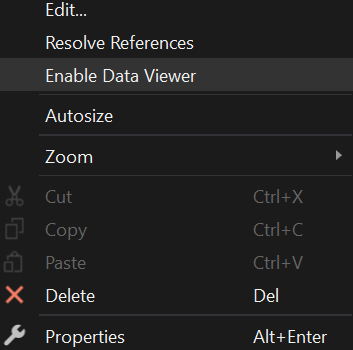
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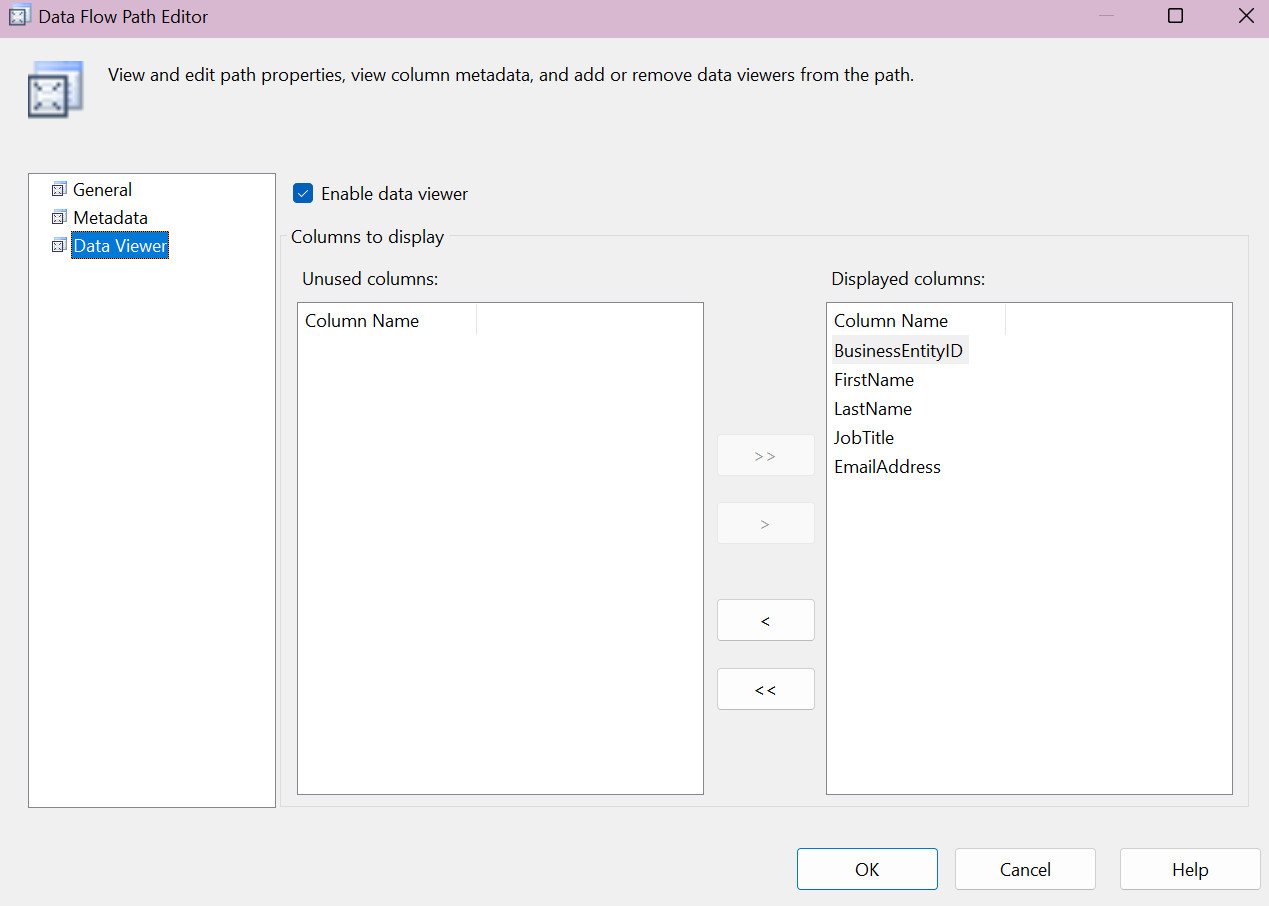
****

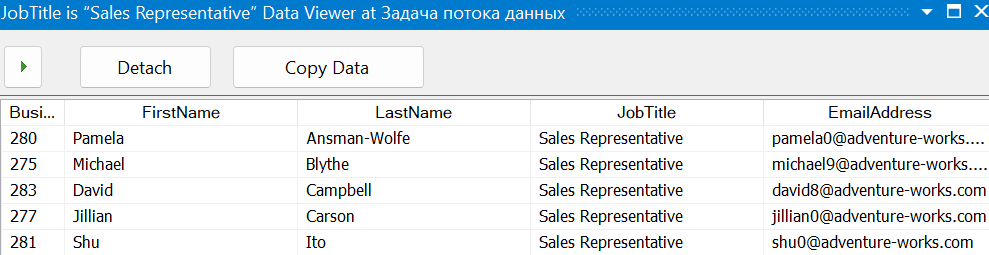
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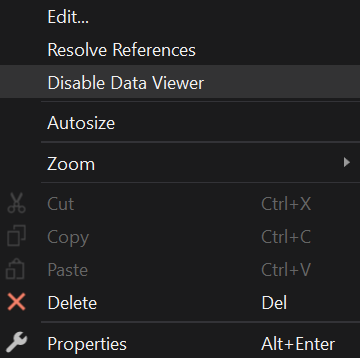
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**4. Exercise 4: Using Data Viewers**

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