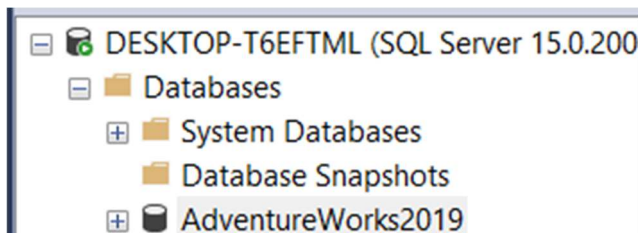


Anton Slizh's

Lab 1: Introduction to SQL Server Integration Services

After installing all necessary software, we can start building our package.

First step is to manually load *AdventureWorks2019* database to our server. This database contains tables this data needed for further processing. Download *AdventureWorks2019.bak* file and use restore database function. Now we have the *AdventureWorks2019* database sample.



And let's create the Database for our personal use.

```
USE master;
GO
CREATE DATABASE Slizh
ON
( NAME = Slizh_dat,
  FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\slizhdatt.mdf',
  SIZE = 10MB,
  MAXSIZE = 1500MB,
  FILEGROWTH = 5MB )
LOG ON
( NAME = Slizh_log,
  FILENAME = 'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\slizhlog.ldf',
  SIZE = 5MB,
  MAXSIZE = 1500MB,
  FILEGROWTH = 5MB );
GO
```

100 %

Messages

Commands completed successfully.

Completion time: 2022-08-24T22:52:20.1499137+03:00

1.1. Exercise 1: Using the Import and Export Wizard Scenario

Creating new Import and Export Wizard

Choose a Data Source
Select the source from which to copy data.

Data source: Microsoft OLE DB Provider for SQL Server

Server name: DESKTOP-T6EFTML

Authentication:
☒ Use Windows Authentication
☐ Use SQL Server Authentication
User name:
Password:
Database: AdventureWorks2019 Refresh

Help < Back Next > Finish >> Cancel

Choose a Destination
Specify where to copy data to.

Destination: Назначение "Неструктурированный файл"

Select a file and specify the file properties and the file format.

File name: D:\DataMola\ Labs\DataCamp2022\ u3\ lab_1\ result\Currency.txt Browse...

Locale: Russian (Belarus) ☐ Unicode

Code page: 1251 (ANSI - кириллица)

Format: Delimited

Text qualifier: <none>

☐ Column names in the first data row

Help < Back Next > Finish >> Cancel

Specify Table Copy or Query
Specify whether to copy one or more tables and views or to copy the results of a query from the data source.

☒ Copy data from one or more tables or views
Use this option to copy all the data from the existing tables or views in the source database.

☐ Write a query to specify the data to transfer
Use this option to write an SQL query to manipulate or to restrict the source data for the copy operation.

Help < Back Next > Finish >> Cancel

Configure Flat File Destination

Source table or view: [Sales].[Currency]

Specify the characters that delimit the destination file:

Row delimiter: {CR}{LF}

Column delimiter: Comma [,]

Edit Mappings... Preview...

Help < Back Next > Finish >> Cancel

Column Mappings

Source: [Sales].[Currency]
Destination: D:\DataMola\ Labs\DataCamp2022\ u3\ lab_1\ result\Currency.txt

☐ Create destination file
☒ Delete rows in destination file
☐ Append rows to the destination file

Mappings:

Source	Destination	Type	Nullable	Size	Precision	Scale
CurrencyCode	CurrencyCode	строка в Юни...	<input type="checkbox"/>	3		
Name	Name	строка в Юни...	<input type="checkbox"/>	50		
ModifiedDate	<ignore>					

Source column: CurrencyCode nchar (3) NOT NULL

OK Cancel

The execution was successful

Success 7 Total 0 Error 7 Success 0 Warning

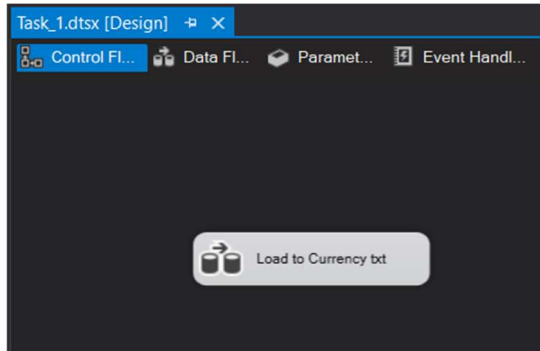
Details:

Action	Status	Message
Initializing Data Flow Task	Success	
Initializing Connections	Success	
Setting SQL Command	Success	
Setting Source Connection	Success	
Setting Destination Connection	Success	
Validating	Success	
Saving	Success	

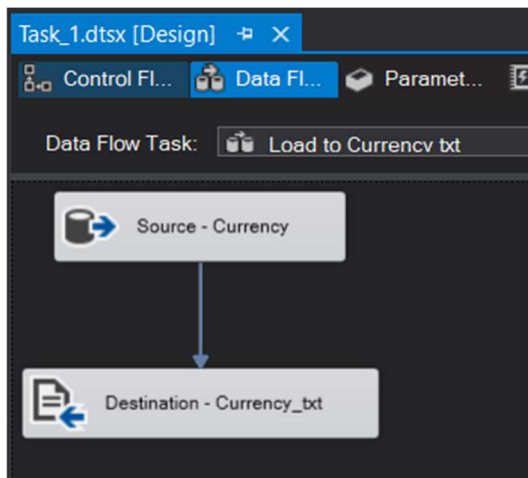
Stop Report

Close

Control Flow:

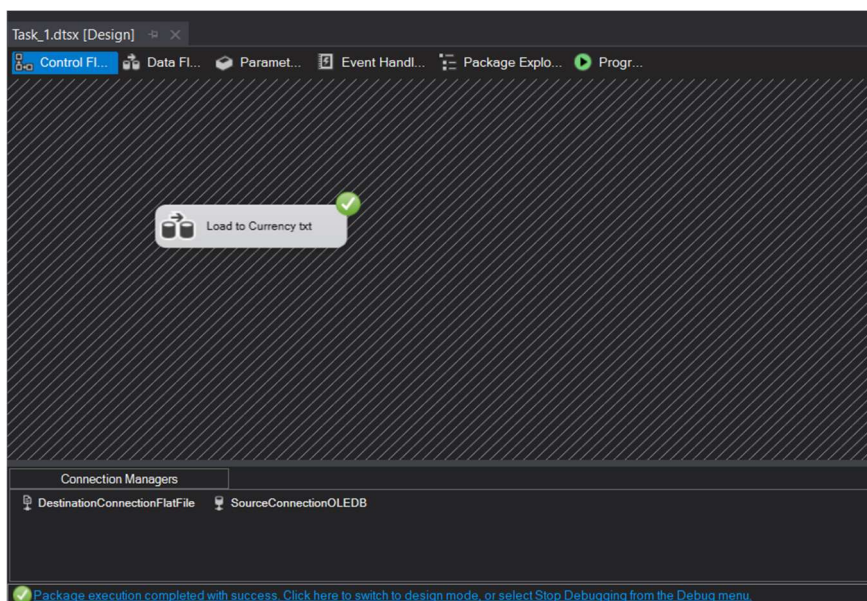


Data Flow:

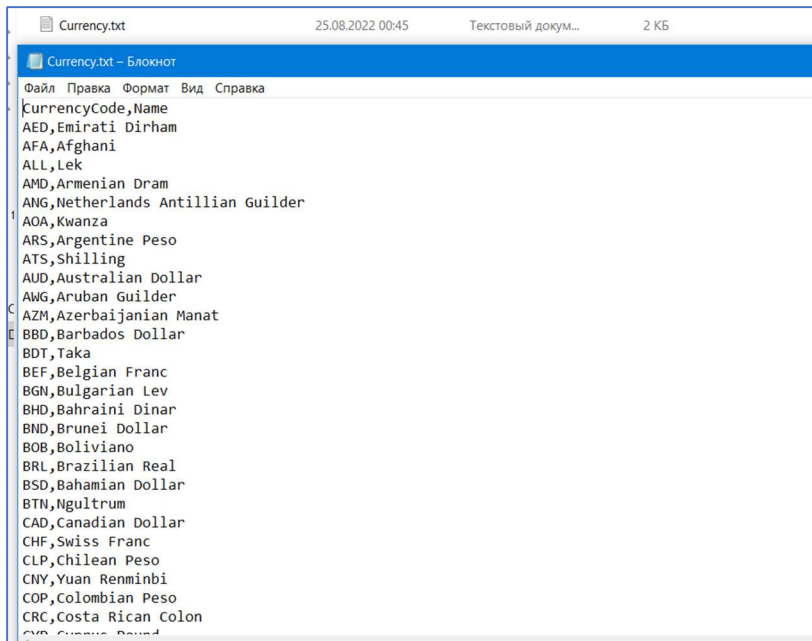


1.2. Exercise 2: Running an Integration Services Package

Executing package:

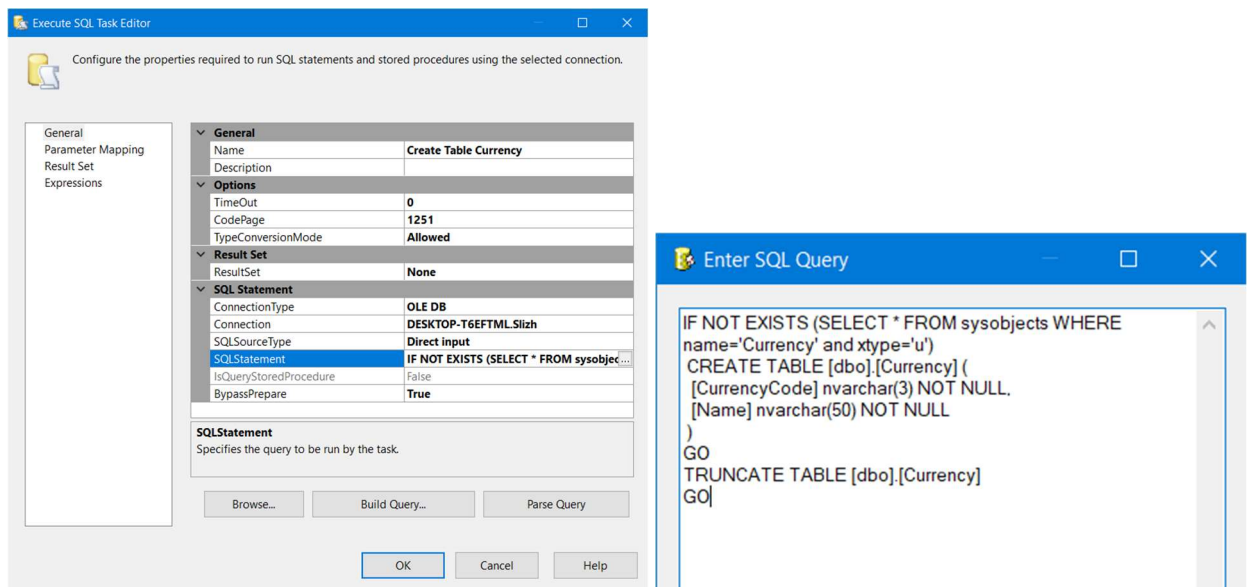


Result file:



1.3. Exercise 3: Import Data Using the Import and Export Wizard

Creating SQL Task which will create table if it is not exist.



Creating new Source as file *Currency.txt*, which was created at the previous step.

SQL Server Import and Export Wizard

Choose a Data Source
Select the source from which to copy data.

Data source: Источник "Неструктурированный файл"

General
Columns
Advanced
Preview

Select a file and specify the file properties and the file format.

File name: D:\DataMola\Lab\LabCamp2022\lab_1\ Browse...

Locale: Russian (Belarus) Unicon

Code page: 1251 (ANSI - кириллица)

Format: Delimited

Text qualifier: <none>

Header row delimiter: {CR}{LF}

Header rows to skip: 0

☒ Column names in the first data row

Help < Back Next > Finish >> Cancel

SQL Server Import and Export Wizard

Choose a Data Source
Select the source from which to copy data.

Data source: Источник "Неструктурированный файл"

General
Columns
Advanced
Preview

Specify the characters that delimit the source file:

Rgw delimiter: {CR}{LF}

Column delimiter: Comma {,}

Preview rows 2-101:

CurrencyCode	Name
AED	Emirati Dirham
AFA	Afghani
ALL	Lek
AMD	Armenian Dram
ANG	Netherlands An...
AOA	Kwanza

Refresh Reset Columns

Help < Back Next > Finish >> Cancel

SQL Server Import and Export Wizard

Choose a Data Source
Select the source from which to copy data.

Data source: Источник "Неструктурированный файл"

General
Columns
Advanced
Preview

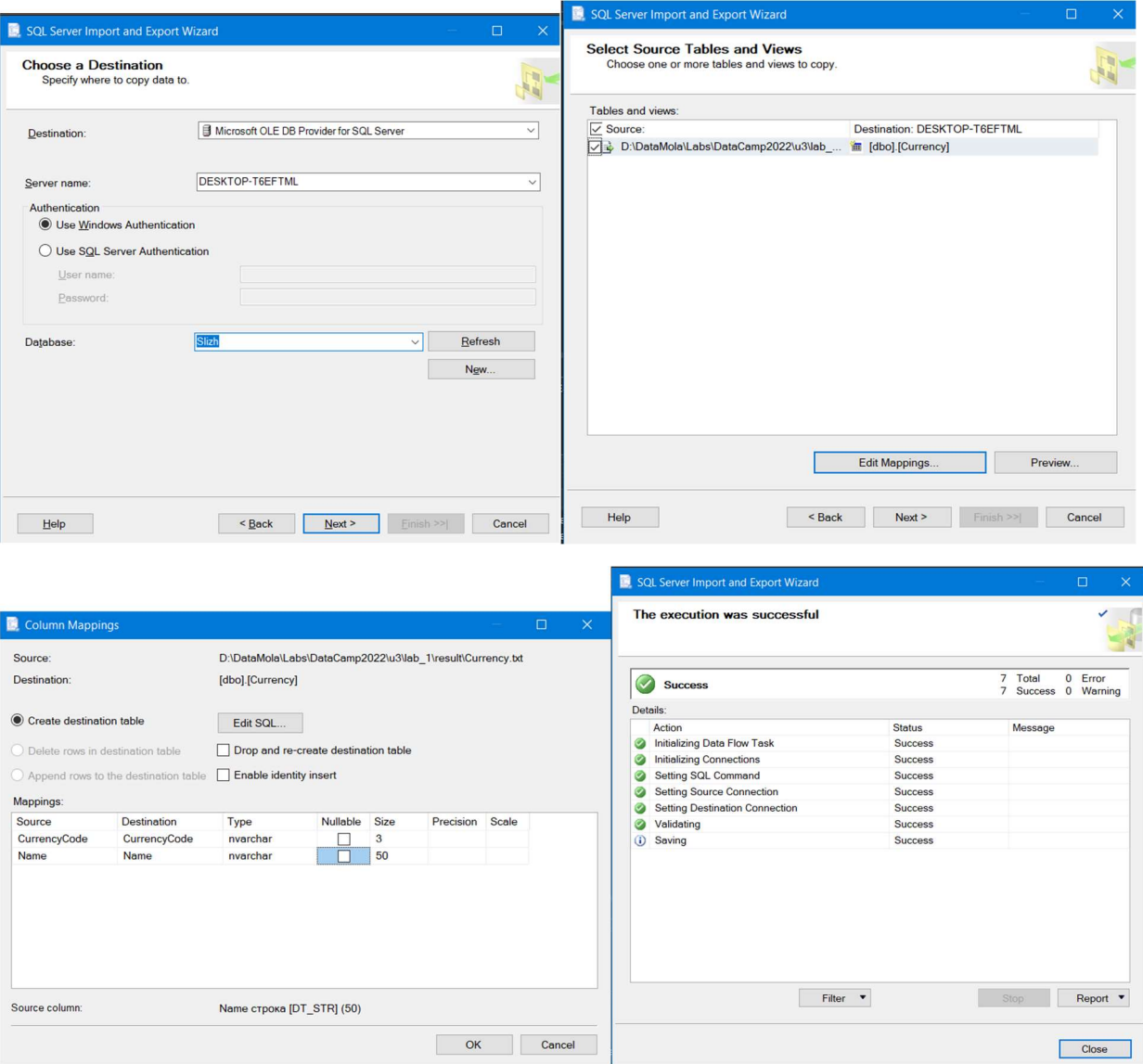
Configure the properties of each column.

CurrencyCode	Misc
Name	CurrencyCode
	ColumnDelimiter Comma {,}
	Column Type Delimited
	InputColumnWidth 0
	DataPrecision 0
	DataScale 0
	Data Type строка [DT_STR]
	OutputColumnWidth 50
	TextQualified True

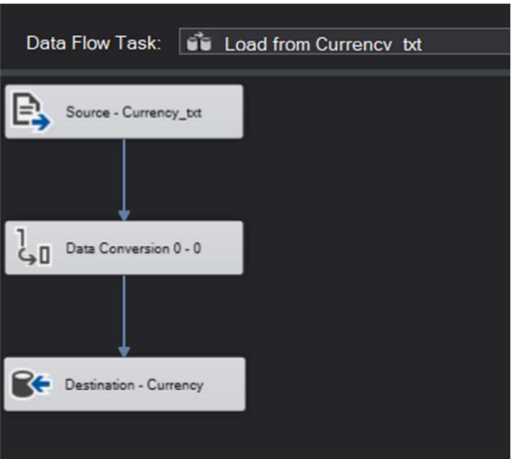
New Delete Suggest Types...

Help < Back Next > Finish >> Cancel

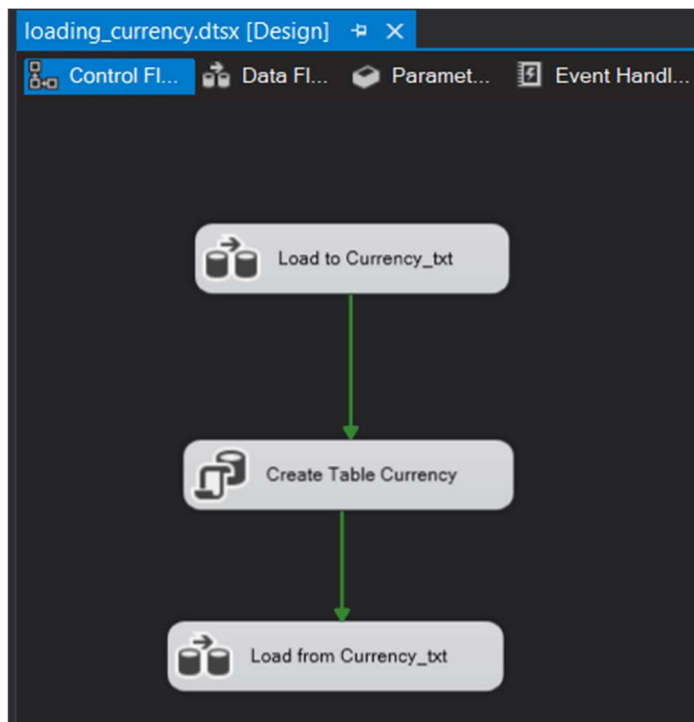
Creating new Destination as SQL Server Database



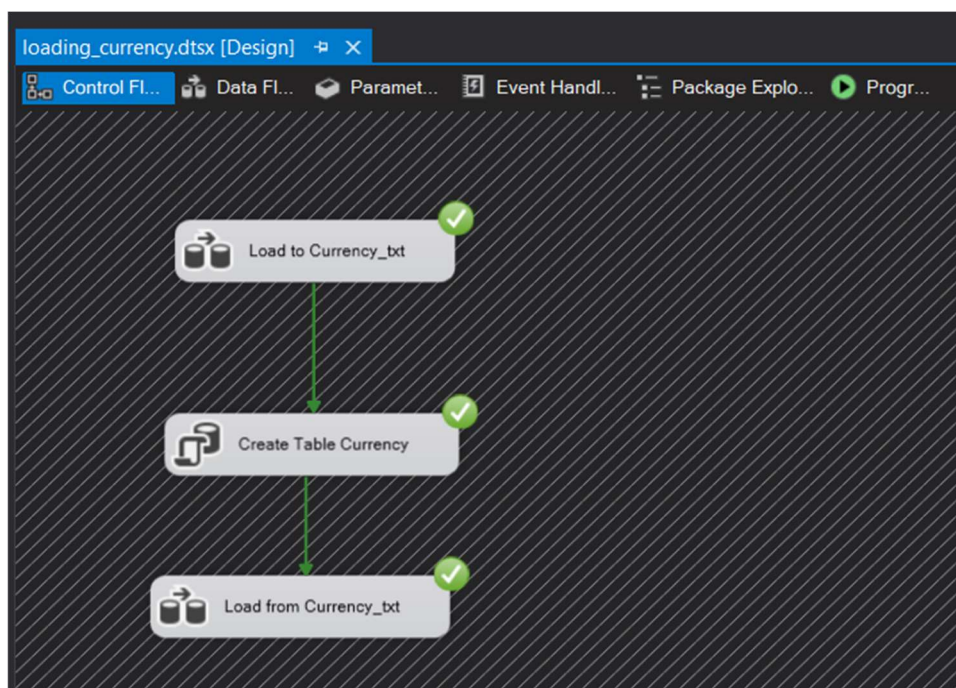
The Data Flow of the Load From Currency.txt step



The Final Control Flow:



Executing the package:



Results:

