Sprawozdanie laboratoria 3
Hurtownie Danych i Big Data
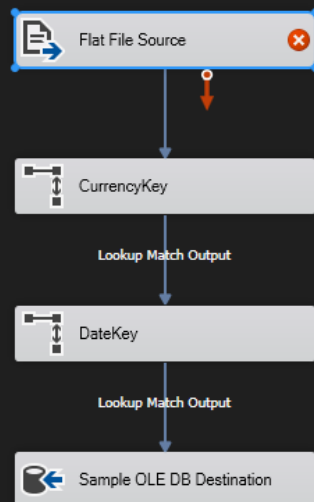
Jakub Michalski (248973)

Mateusz Górka (248962)

23.03.2023

Zadanie 1

```
■ → Lesson 1
    ⌕ Validation has started
  ■ → Task TestTask
      ⌕ Validation has started (2)
      ⓘ [SSIS.Pipeline] Information: Validation phase is beginning.
      → Progress: Validating - 0 percent complete
      → Progress: Validating - 25 percent complete
      → Progress: Validating - 50 percent complete
      → Progress: Validating - 75 percent complete
      → Progress: Validating - 100 percent complete
      ⌕ Validation is completed (2)
      ▶ Start, 21:13:33
      ⓘ [SSIS.Pipeline] Information: Validation phase is beginning.
      → Progress: Validating - 0 percent complete
      → Progress: Validating - 25 percent complete
      → Progress: Validating - 50 percent complete
      → Progress: Validating - 75 percent complete
      → Progress: Validating - 100 percent complete
      ⚠ [SSIS.Pipeline] Warning: Warning: Could not open global shared memory to communicate with performance DLL; data flow performance counters are not available.  To resolve
      ⓘ [SSIS.Pipeline] Information: Prepare for Execute phase is beginning.
      → Progress: Prepare for Execute - 0 percent complete
      → Progress: Prepare for Execute - 25 percent complete
      → Progress: Prepare for Execute - 50 percent complete
      → Progress: Prepare for Execute - 75 percent complete
      → Progress: Prepare for Execute - 100 percent complete
      ⓘ [SSIS.Pipeline] Information: Pre-Execute phase is beginning.
      → Progress: Pre-Execute - 0 percent complete
      ⓘ [DateKey [27]] Information: The DateKey succeeded in preparing the cache. The preparation time was 0.016 seconds.
      → Progress: Pre-Execute - 25 percent complete
      ⓘ [Flat File Source [52]] Information: The processing of file "C:\Users\Kuba\Downloads\Creating a Simple ETL Package\Sample Data\SampleCurrencyData.txt" has started.
      → Progress: Pre-Execute - 50 percent complete
      ⓘ [CurrencyKey [2]] Information: CurrencyKey has cached 14 rows.
      ⓘ [CurrencyKey [2]] Information: CurrencyKey has cached a total of 14 rows.
      ⓘ [CurrencyKey [2]] Information: The number of unique rows added to the cache is 14.
      ⓘ [CurrencyKey [2]] Information: The CurrencyKey processed 14 rows in the cache. The processing time was 0.016 seconds. The cache used 728 bytes of memory.
      → Progress: Pre-Execute - 75 percent complete
      → Progress: Pre-Execute - 100 percent complete
      ⓘ [SSIS.Pipeline] Information: Execute phase is beginning.
      ⓘ [Flat File Source [52]] Information: The total number of data rows processed for file "C:\Users\Kuba\Downloads\Creating a Simple ETL Package\Sample Data\SampleCurrenc
      ⓘ [Sample OLE DB Destination [77]] Information: The final commit for the data insertion in "Sample OLE DB Destination" has started.
      ⓘ [Sample OLE DB Destination [77]] Information: The final commit for the data insertion  in "Sample OLE DB Destination" has ended.
      ⓘ [SSIS.Pipeline] Information: Post Execute phase is beginning.
      → Progress: Post Execute - 0 percent complete
      ⓘ [DateKey [27]] Information: The DateKey has performed the following operations: processed 1097 rows, issued 1097 database commands to the reference database, and perf
      → Progress: Post Execute - 25 percent complete
      ⓘ [Flat File Source [52]] Information: The processing of file "C:\Users\Kuba\Downloads\Creating a Simple ETL Package\Sample Data\SampleCurrencyData.txt" has ended.
      → Progress: Post Execute - 50 percent complete
      → Progress: Post Execute - 75 percent complete
      → Progress: Post Execute - 100 percent complete
      ⓘ [SSIS.Pipeline] Information: "Sample OLE DB Destination" wrote 1097 rows.
      ⓘ [SSIS.Pipeline] Information: Cleanup phase is beginning.
      → Progress: Cleanup - 0 percent complete
      → Progress: Cleanup - 25 percent complete
      → Progress: Cleanup - 50 percent complete
      → Progress: Cleanup - 75 percent complete
      → Progress: Cleanup - 100 percent complete
      ⬤ Finished, 21:13:33, Elapsed time: 00:00:00.344
  ⌕ Validation is completed
  ▶ Start, 21:13:33
  ⬤ Finished, 21:13:33, Elapsed time: 00:00:00.453
```
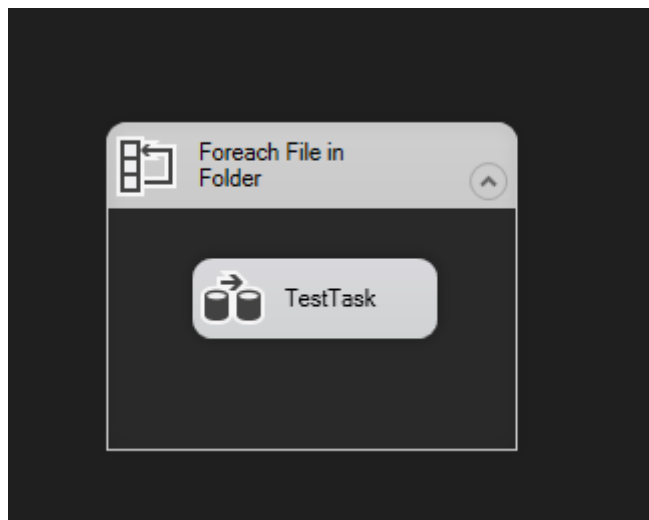
- Lesson 1
  - Validation has started
  - Task TestTask
    - Validation has started (2)
    - [SSIS.Pipeline] Information: Validation phase is beginning.
    - Progress: Validating - 0 percent complete
    - Progress: Validating - 25 percent complete
    - Progress: Validating - 50 percent complete
    - Progress: Validating - 75 percent complete
    - Progress: Validating - 100 percent complete
    - Validation is completed (2)
    - Start, 21:13:33
    - [SSIS.Pipeline] Information: Validation phase is beginning.
    - Progress: Validating - 0 percent complete
    - Progress: Validating - 25 percent complete
    - Progress: Validating - 50 percent complete
    - Progress: Validating - 75 percent complete
    - Progress: Validating - 100 percent complete
    - [SSIS.Pipeline] Warning: Warning: Could not open global shared memory to communicate with performance DLL; data flow performance counters are not available. To r
    - [SSIS.Pipeline] Information: Prepare for Execute phase is beginning.
    - Progress: Prepare for Execute - 0 percent complete
    - Progress: Prepare for Execute - 25 percent complete
    - Progress: Prepare for Execute - 50 percent complete
    - Progress: Prepare for Execute - 75 percent complete
    - Progress: Prepare for Execute - 100 percent complete
    - [SSIS.Pipeline] Information: Pre-Execute phase is beginning.
    - Progress: Pre-Execute - 0 percent complete
    - [DateKey [27]] Information: The DateKey succeeded in preparing the cache. The preparation time was 0.016 seconds.
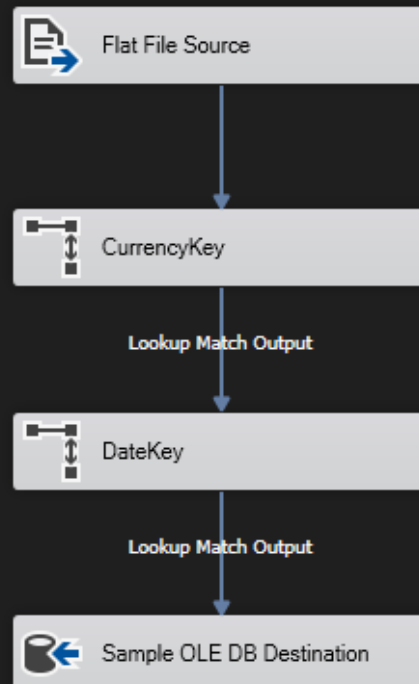   - Progress: Pre-Execute - 25 percent complete

Zadanie 2

The data flow extracts data from a file, looks up values in the CurrencyKey column in the DimCurrency table and

To wrap the text in the annotation box, place the cursor where you want to start a new line and press Enter.

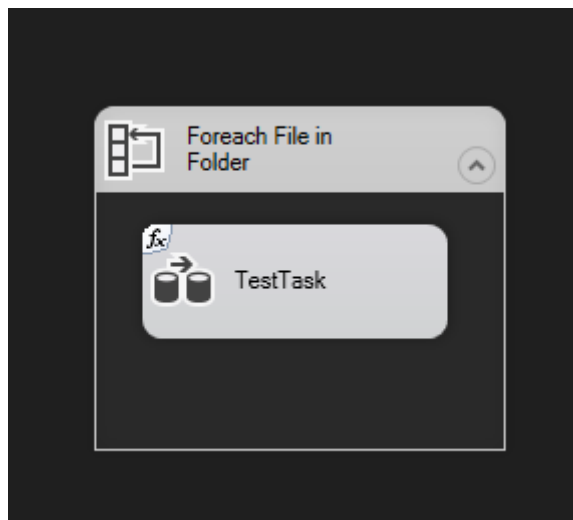If you don't add text to the annotation box, the box disappears when you click outside it. Because of this behavi
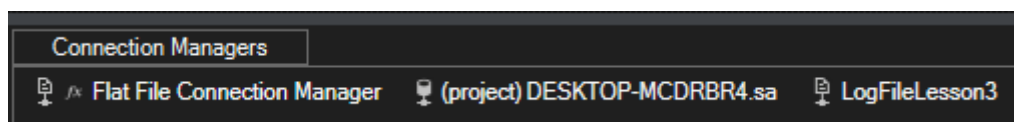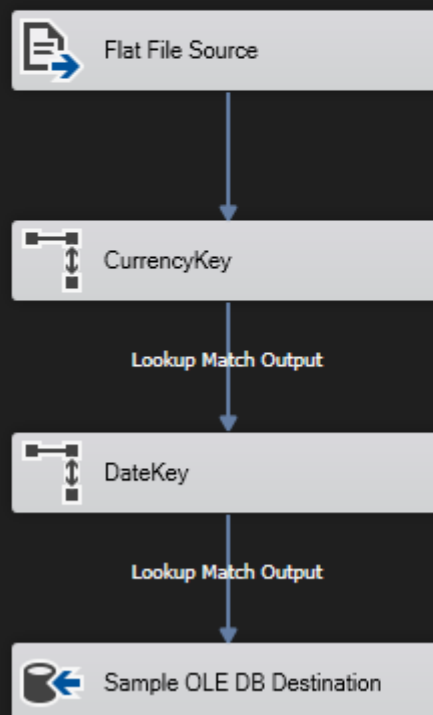
```
☐ → Lesson 2
    ⌕ Validation has started
☐ → Foreach File in Folder
    ⌕ Validation has started
    ☐ → Task TestTask
        ⌕ Validation has started (15)
        ⓘ [SSIS.Pipeline] Information: Validation phase is beginning.
        → Progress: Validating - 0 percent complete
        → Progress: Validating - 25 percent complete
        → Progress: Validating - 50 percent complete
        → Progress: Validating - 75 percent complete
        → Progress: Validating - 100 percent complete
        ⌕ Validation is completed (15)
        ▶ Start (14)
        ⓘ [SSIS.Pipeline] Information: Validation phase is beginning.
        → Progress: Validating - 0 percent complete
        → Progress: Validating - 25 percent complete
        → Progress: Validating - 50 percent complete
        → Progress: Validating - 75 percent complete
        → Progress: Validating - 100 percent complete
        ⚠ [SSIS.Pipeline] Warning: Warning: Could not open global shared memory to communicate with performance DLL; data flow performance counters are not available.  To
        ⓘ [SSIS.Pipeline] Information: Prepare for Execute phase is beginning.
        → Progress: Prepare for Execute - 0 percent complete
        → Progress: Prepare for Execute - 25 percent complete
        → Progress: Prepare for Execute - 50 percent complete
        → Progress: Prepare for Execute - 75 percent complete
        → Progress: Prepare for Execute - 100 percent complete
        ⓘ [SSIS.Pipeline] Information: Pre-Execute phase is beginning.
```

```
        → Progress: Post Execute - 100 percent complete
        ⓘ [SSIS.Pipeline] Information: "Sample OLE DB Destination" wrote 1097 rows.
        ⓘ [SSIS.Pipeline] Information: Cleanup phase is beginning.
        → Progress: Cleanup - 0 percent complete
        → Progress: Cleanup - 25 percent complete
        → Progress: Cleanup - 50 percent complete
        → Progress: Cleanup - 75 percent complete
        → Progress: Cleanup - 100 percent complete
        ⬢ Stop (14)
    ⌕ Validation is completed
    ▶ Start, 17:15:44
    ⬢ Finished, 17:15:49, Elapsed time: 00:00:04.281
⌕ Validation is completed
▶ Start, 17:15:44
⬢ Finished, 17:15:49, Elapsed time: 00:00:04.391
```

Zadanie 3

The data flow extracts data from a file, looks up values in the CurrencyKey column in the DimCurrenc

To wrap the text in the annotation box, place the cursor where you want to start a new line and press

If you don't add text to the annotation box, the box disappears when you click outside it. Because of

Flat File Source

CurrencyKey

Lookup Match Output

DateKey

Lookup Match Output

Sample OLE DB Destination

Connection Managers

Flat File Connection Manager   (project) DESKTOP-MCDRBR4.sa   LogFileLesson3

Lesson 3.dtsx	22.03.2023 20:36	Integration Servic...	119 KB
Lesson 4.dtsx	22.03.2023 20:52	Integration Servic...	199 KB
LogFileLesson3	22.03.2023 20:52	Plik	133 KB

LogFileLesson3 — Notatnik

Plik Edycja Format Widok Pomoc

```
#Fields: event,computer,operator,source,sourceid,executionid,starttime,endtime,datacode,databytes,message
User:PipelineExecutionTrees,DESKTOP-MCDRBR4,DESKTOP-MCDRBR4\Kuba,TestTask,{42BA1CE2-2043-4D64-A8E8-A01A68E27C22},{D30D9618-E29B-4ACC-BDFB-20B2CB4F04DE},22.03.2023 20:36:08,22.03.2023 20:36:08,0,0x,Begin Path 0
   Flat File Source.Outputs[Flat File Source Output]; Flat File Source
   CurrencyKey.Inputs[Lookup Input]; CurrencyKey
   CurrencyKey.Outputs[Lookup Match Output]; CurrencyKey
   DateKey.Inputs[Lookup Input]; DateKey
   DateKey.Outputs[Lookup Match Output]; DateKey
   Sample OLE DB Destination.Inputs[OLE DB Destination Input]; Sample OLE DB Destination
End Path 0


User:PipelineExecutionPlan,DESKTOP-MCDRBR4,DESKTOP-MCDRBR4\Kuba,TestTask,{42BA1CE2-2043-4D64-A8E8-A01A68E27C22},{D30D9618-E29B-4ACC-BDFB-20B2CB4F04DE},22.03.2023 20:36:08,22.03.2023 20:36:08,0,0x,Begin output plan
   Begin transform plan
   End transform plan

   Begin source plan
      Call PrimeOutput on Flat File Source
         for Flat File Source.Outputs[Flat File Source Output]
   End source plan
End output plan

Begin path plan
   Begin Path Plan 0
      Call ProcessInput on CurrencyKey for CurrencyKey.Inputs[Lookup Input]
      Create new row view for CurrencyKey.Outputs[Lookup Match Output]
      Call ProcessInput on DateKey for DateKey.Inputs[Lookup Input]
      Create new row view for DateKey.Outputs[Lookup Match Output]
      Call ProcessInput on Sample OLE DB Destination for Sample OLE DB Destination.Inputs[OLE DB Destination Input]
   End Path Plan 0

End path plan

User:PipelineExecutionTrees,DESKTOP-MCDRBR4,DESKTOP-MCDRBR4\Kuba,TestTask,{42BA1CE2-2043-4D64-A8E8-A01A68E27C22},{D30D9618-E29B-4ACC-BDFB-20B2CB4F04DE},22.03.2023 20:36:08,22.03.2023 20:36:08,0,0x,Begin Path 0
   Flat File Source.Outputs[Flat File Source Output]; Flat File Source
   CurrencyKey.Inputs[Lookup Input]; CurrencyKey
   CurrencyKey.Outputs[Lookup Match Output]; CurrencyKey
   DateKey.Inputs[Lookup Input]; DateKey
```



```
Lesson 2
   Validation has started
   Foreach File in Folder
      Validation has started
      Task TestTask
         Validation has started (15)
         [SSIS.Pipeline] Information: Validation phase is beginning.
         Progress: Validating - 0 percent complete
         Progress: Validating - 25 percent complete
         Progress: Validating - 50 percent complete
         Progress: Validating - 75 percent complete
         Progress: Validating - 100 percent complete
         Validation is completed (15)
         Start (14)
         [SSIS.Pipeline] Information: Validation phase is beginning.
         Progress: Validating - 0 percent complete
         Progress: Validating - 25 percent complete
         Progress: Validating - 50 percent complete
         Progress: Validating - 75 percent complete
         Progress: Validating - 100 percent complete
         [SSIS.Pipeline] Warning: Warning: Could not open global shared memory to communicate with performance DLL; data flow performance counters are not available.  To
         [SSIS.Pipeline] Information: Prepare for Execute phase is beginning.
         Progress: Prepare for Execute - 0 percent complete
         Progress: Prepare for Execute - 25 percent complete
         Progress: Prepare for Execute - 50 percent complete
         Progress: Prepare for Execute - 75 percent complete
         Progress: Prepare for Execute - 100 percent complete
         [SSIS.Pipeline] Information: Pre-Execute phase is beginning.
         [DateKey [27]] Information: The DateKey has performed the following operations: processed 1097 rows, issued 1097 database commands to the reference database.
         Progress: Post Execute - 75 percent complete
         [Flat File Source [52]] Information: The processing of file "C:\Users\Kuba\Downloads\Creating a Simple ETL Package\Sample Data\Currency_VEB.txt" has ended.
         Progress: Post Execute - 100 percent complete
         [SSIS.Pipeline] Information: "Sample OLE DB Destination" wrote 1097 rows.
         [SSIS.Pipeline] Information: Cleanup phase is beginning.
         Progress: Cleanup - 0 percent complete
         Progress: Cleanup - 25 percent complete
         Progress: Cleanup - 50 percent complete
         Progress: Cleanup - 75 percent complete
         Progress: Cleanup - 100 percent complete
         Stop (14)
      Validation is completed
      Start, 20:36:08
      Finished, 20:36:12, Elapsed time: 00:00:04.000
   Validation is completed
   Start, 20:36:08
   Finished, 20:36:12, Elapsed time: 00:00:04.110
```
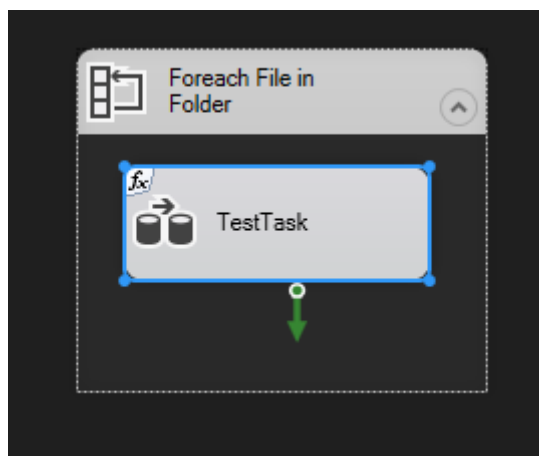
Zadanie 4

The data flow extracts data from a file, looks up values in the CurrencyKey column in the DimCurrency table and the DateKey column in the Di[m]

To wrap the text in the annotation box, place the cursor where you want to start a new line and press Enter.

If you don't add text to the annotation box, the box disappears when you click outside it. Because of this behavior, if you want to paste text in [...]

Flat File Source

CurrencyKey

Lookup Error Output → Get Error Description

Lookup Match Output

DateKey

Lookup Match Output

Sample OLE DB Destination

Failed Rows

Foreach File in Folder

TestTask
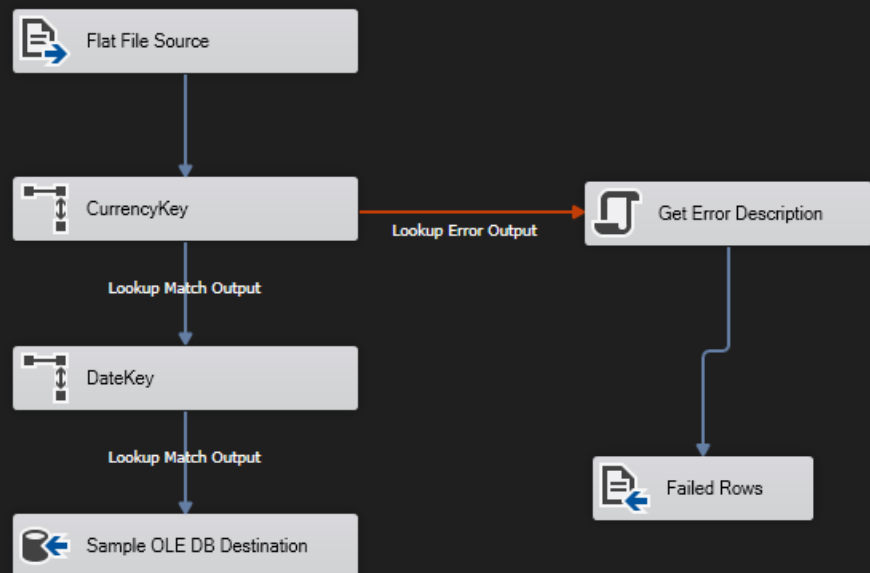
Lesson 4.dtsx [Design]   Lesson 3.dtsx [Design]   Lesson 2.dtsx [Design]   Lesson 1.dtsx [Design]

Control Flow   Data Flow   Parameters   Event Handlers   Package Explorer   Execution Results

Lesson 2
  Validation has started
  Foreach File in Folder
    Validation has started
    Task TestTask
      Validation has started (16)
      [SSIS.Pipeline] Information: Validation phase is beginning.
      Progress: Validating - 0 percent complete
      Progress: Validating - 16 percent complete
      Progress: Validating - 33 percent complete
      Progress: Validating - 50 percent complete
      Progress: Validating - 66 percent complete
      Progress: Validating - 83 percent complete
      Progress: Validating - 100 percent complete
      Validation is completed (16)
      Start (15)
      [SSIS.Pipeline] Information: Validation phase is beginning.
      Progress: Validating - 0 percent complete
      Progress: Validating - 16 percent complete
      Progress: Validating - 33 percent complete
      Progress: Validating - 50 percent complete
      Progress: Validating - 66 percent complete
      Progress: Validating - 83 percent complete
      Progress: Validating - 100 percent complete
      [SSIS.Pipeline] Warning: Warning: Could not open global shared memory to communicate with performance DLL; data flow performance counters are not available. To
      [SSIS.Pipeline] Warning: The output column "ErrorDescription" (203) on output "Output 0" (202) and component "Get Error Description" (190) is not subsequently used
      [SSIS.Pipeline] Information: Prepare for Execute phase is beginning.
      Progress: Prepare for Execute - 0 percent complete
      Progress: Prepare for Execute - 16 percent complete
      Progress: Prepare for Execute - 33 percent complete
      Progress: Prepare for Execute - 50 percent complete
      Progress: Prepare for Execute - 66 percent complete
      Progress: Prepare for Execute - 83 percent complete
      Progress: Prepare for Execute - 100 percent complete
      [SSIS.Pipeline] Information: Pre-Execute phase is beginning.
      Progress: Pre-Execute - 0 percent complete
      [CurrencyKey [2]] Information: CurrencyKey has cached 14 rows.

  Stop (15)
  Validation is completed
  Start, 20:52:37
  Finished, 20:52:43, Elapsed time: 00:00:05.328
  Validation is completed
  Start, 20:52:37
  Finished, 20:52:43, Elapsed time: 00:00:05.437

Connection Managers

Flat File Connection Manager   LogFileLesson3   (project) DESKTOP-MCDRBR4.sa   Error Data

DESKTOP-MCDRBR4.sa.conmgr	22.03.2023 16:21	Plik CONMGR	1 KB
ErrorOutput.txt	22.03.2023 20:52	Text Source File	58 KB
Lesson 1.dtsx	22.03.2023 16:50	Integration Servic...	94 KB

```
  1    0.00158,BAD,2005-07-01,0.00158,,,,,,,,,,,,,,,,,,,
  2    0.00158,BAD,2005-07-02,0.00158,,,,,,,,,,,,,,,,,,,
  3    0.00158,BAD,2005-07-03,0.00158,,,,,,,,,,,,,,,,,,,
  4    0.00157,BAD,2005-07-04,0.00157,,,,,,,,,,,,,,,,,,,
  5    0.00157,BAD,2005-07-05,0.00157,,,,,,,,,,,,,,,,,,,
  6    0.00157,BAD,2005-07-06,0.00157,,,,,,,,,,,,,,,,,,,
  7    0.00157,BAD,2005-07-07,0.00157,,,,,,,,,,,,,,,,,,,
  8    0.00157,BAD,2005-07-08,0.00157,,,,,,,,,,,,,,,,,,,
  9    0.00157,BAD,2005-07-09,0.00157,,,,,,,,,,,,,,,,,,,
 10    0.00157,BAD,2005-07-10,0.00157,,,,,,,,,,,,,,,,,,,
 11    0.00157,BAD,2005-07-11,0.00157,,,,,,,,,,,,,,,,,,,
 12    0.00157,BAD,2005-07-12,0.00157,,,,,,,,,,,,,,,,,,,
 13    0.00157,BAD,2005-07-13,0.00157,,,,,,,,,,,,,,,,,,,
 14    0.00157,BAD,2005-07-14,0.00157,,,,,,,,,,,,,,,,,,,
 15    0.00157,BAD,2005-07-15,0.00157,,,,,,,,,,,,,,,,,,,
 16    0.00157,BAD,2005-07-16,0.00157,,,,,,,,,,,,,,,,,,,
 17    0.00157,BAD,2005-07-17,0.00157,,,,,,,,,,,,,,,,,,,
 18    0.00157,BAD,2005-07-18,0.00157,,,,,,,,,,,,,,,,,,,
 19    0.00157,BAD,2005-07-19,0.00157,,,,,,,,,,,,,,,,,,,
 20    0.00157,BAD,2005-07-20,0.00157,,,,,,,,,,,,,,,,,,,
 21    0.00157,BAD,2005-07-21,0.00157,,,,,,,,,,,,,,,,,,,
 22    0.00157,BAD,2005-07-22,0.00157,,,,,,,,,,,,,,,,,,,
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 25    0.00156,BAD,2005-07-25,0.00156,,,,,,,,,,,,,,,,,,,
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 27    0.00156,BAD,2005-07-27,0.00156,,,,,,,,,,,,,,,,,,,
 28    0.00156,BAD,2005-07-28,0.00156,,,,,,,,,,,,,,,,,,,
 29    0.00156,BAD,2005-07-29,0.00156,,,,,,,,,,,,,,,,,,,
 30    0.00155,BAD,2005-07-30,0.00155,,,,,,,,,,,,,,,,,,,
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 32    0.00155,BAD,2005-08-01,0.00155,,,,,,,,,,,,,,,,,,,
 33    0.00155,BAD,2005-08-02,0.00155,,,,,,,,,,,,,,,,,,,
 34    0.00155,BAD,2005-08-03,0.00155,,,,,,,,,,,,,,,,,,,
 35    0.00155,BAD,2005-08-04,0.00155,,,,,,,,,,,,,,,,,,,
 36    0.00155,BAD,2005-08-05,0.00155,,,,,,,,,,,,,,,,,,,
 37    0.00155,BAD,2005-08-06,0.00155,,,,,,,,,,,,,,,,,,,
 38    0.00155,BAD,2005-08-07,0.00155,,,,,,,,,,,,,,,,,,,
 39    0.00155,BAD,2005-08-08,0.00155,,,,,,,,,,,,,,,,,,,
```