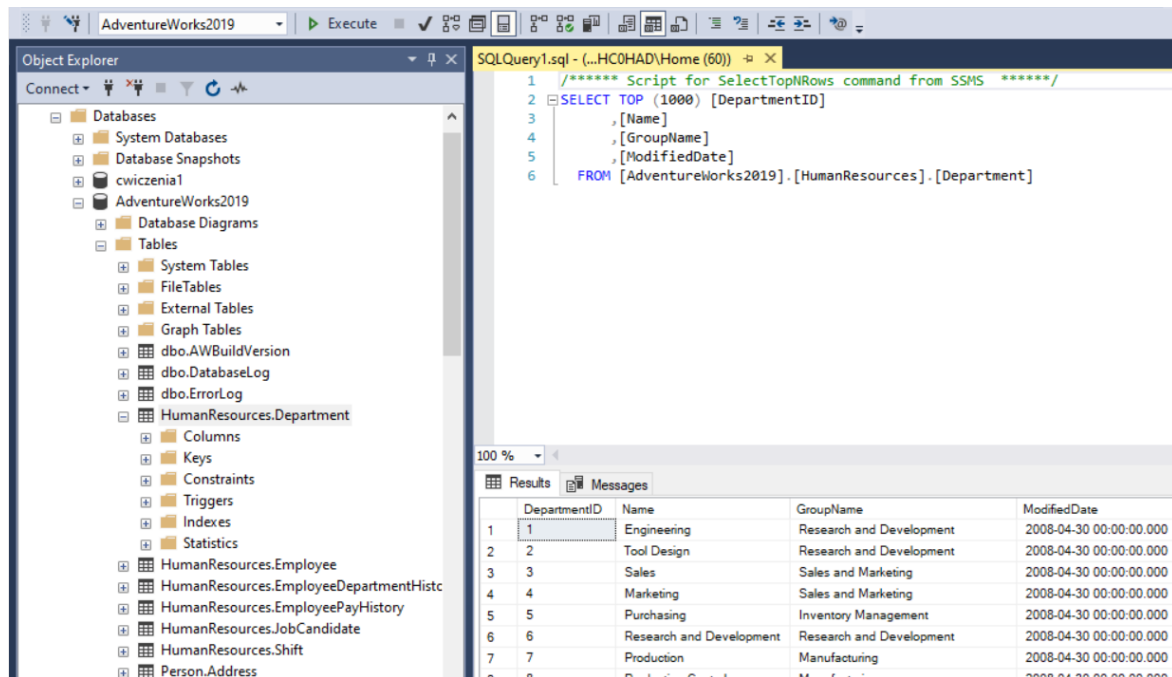


# ĆWICZENIA 3

## ZADANIE 1



```
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [DepartmentID]
3      , [Name]
4      , [GroupName]
5      , [ModifiedDate]
6 FROM [AdventureWorks2019].[HumanResources].[Department]
```

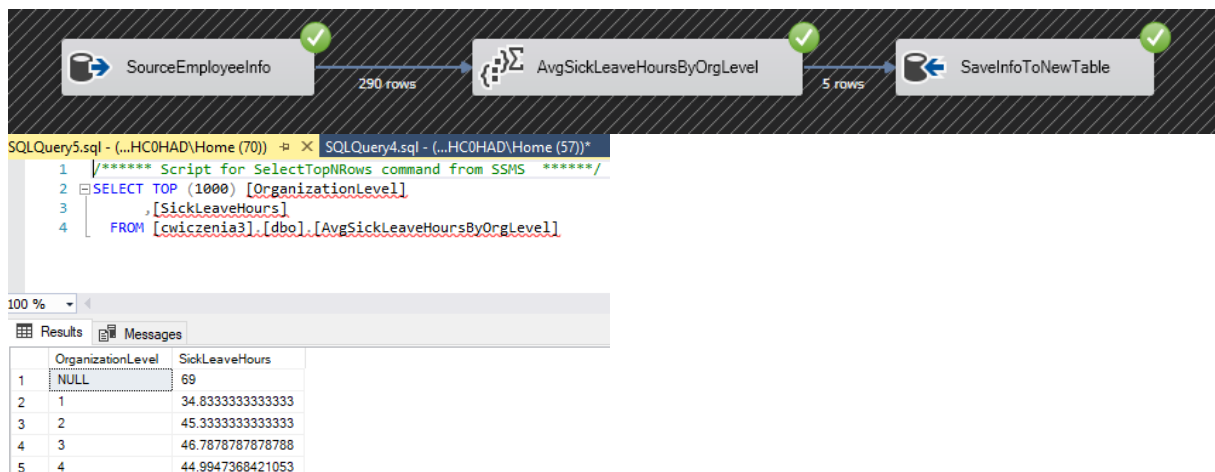
DepartmentID	Name	GroupName	ModifiedDate
1	Engineering	Research and Development	2008-04-30 00:00:00.000
2	Tool Design	Research and Development	2008-04-30 00:00:00.000
3	Sales	Sales and Marketing	2008-04-30 00:00:00.000
4	Marketing	Sales and Marketing	2008-04-30 00:00:00.000
5	Purchasing	Inventory Management	2008-04-30 00:00:00.000
6	Research and Development	Research and Development	2008-04-30 00:00:00.000
7	Production	Manufacturing	2008-04-30 00:00:00.000
8	Production Control	Manufacturing	2008-04-30 00:00:00.000

## ZADANIE 2

W Data Flow taskach możemy stworzyć jedna rzecz. Możemy mieć ich kilka – tutaj „bawimy” się się danymi.

OLE DB Source – źródło, którym łączymy się z naszą bazą w zainstalowanej instancji mysql server

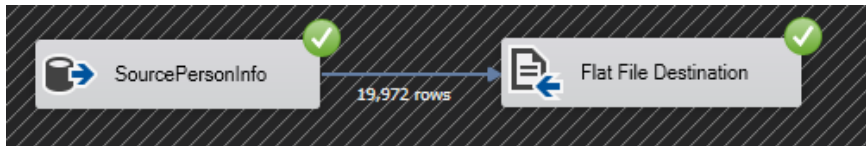
Flat File Source – ładuje nam pliki jak xls, csv, txt



```
1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [OrganizationLevel]
3      , [SickLeaveHours]
4 FROM [cwiczenia3].[dbo].[AvgSickLeaveHoursByOrgLevel]
```

OrganizationLevel	SickLeaveHours
NULL	69
1	34.8333333333333
2	45.3333333333333
3	46.7878787878788
4	44.9947368421053

## ZADANIE 3



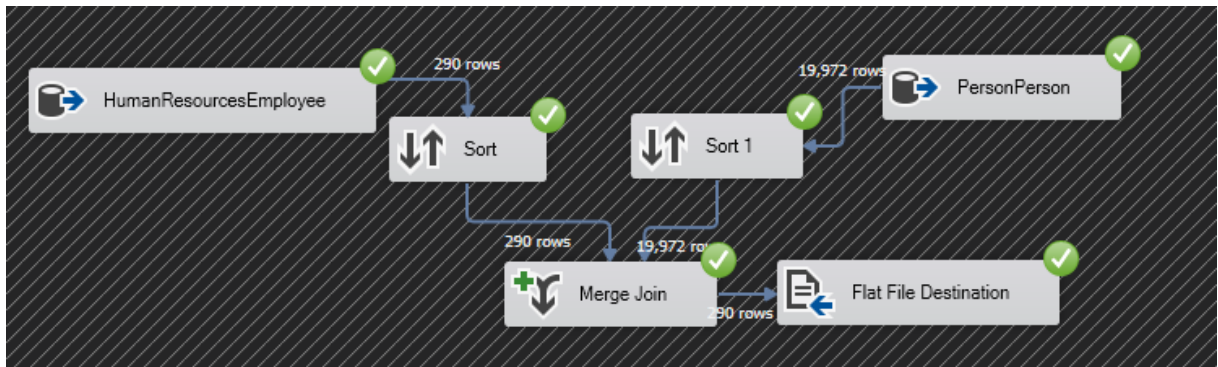
3.txt - Notepad

File Edit Format View Help

```
1,EM,False,,Ken,J,Sánchez,,0,{92C4279F-1207-48A3-8448-4636514EB7E2},2009-01-07 00:00:00
2,EM,False,,Terri, Lee,Duffy,,1,{D8763459-8AA8-47CC-AFF7-C9079AF79033},2008-01-24 00:00:00
3,EM,False,,Roberto,,Tamburello,,0,{E1A2555E-0828-434B-A33B-6F38136A37DE},2007-11-04 00:00:00
4,EM,False,,Rob,,Walters,,0,{F2D7CE06-38B3-4357-805B-F4B6B71C01FF},2007-11-28 00:00:00
5,EM,False,Ms.,Gail,A,Erickson,,0,{F3A3F6B4-AE3B-430C-A754-9F2231BA6FEF},2007-12-30 00:00:00
6,EM,False,Mr.,Jossef,H,Goldberg,,0,{0DEA28FD-EFFE-482A-AFD3-B7E8F199D56F},2013-12-16 00:00:00
7,EM,False,,Dylan,A,Miller,,2,{C45E8AB8-01BE-4B76-B215-820C8368181A},2009-02-01 00:00:00
8,EM,False,,Diane,L,Margheim,,0,{A948E590-4A56-45A9-BC9A-160A1CC9D990},2008-12-22 00:00:00
9,EM,False,,Gigi,N,Matthew,,0,{5FC28C0E-6D36-4252-9846-05CAA0B1F6C5},2009-01-09 00:00:00
10,EM,False,,Michael,,Raheem,,2,{CA2C740E-75B2-420C-9D4B-E3CBC6609604},2009-04-26 00:00:00
11,EM,False,,Ovidiu,V,Cracium,,0,{D2CC2577-EF6B-4408-BD8C-747337FE5645},2010-11-28 00:00:00
12,EM,False,,Thierry,B,D'Hers,,2,{FA263C7F-600D-4E89-8DCD-0978F3530F5F},2007-12-04 00:00:00
```

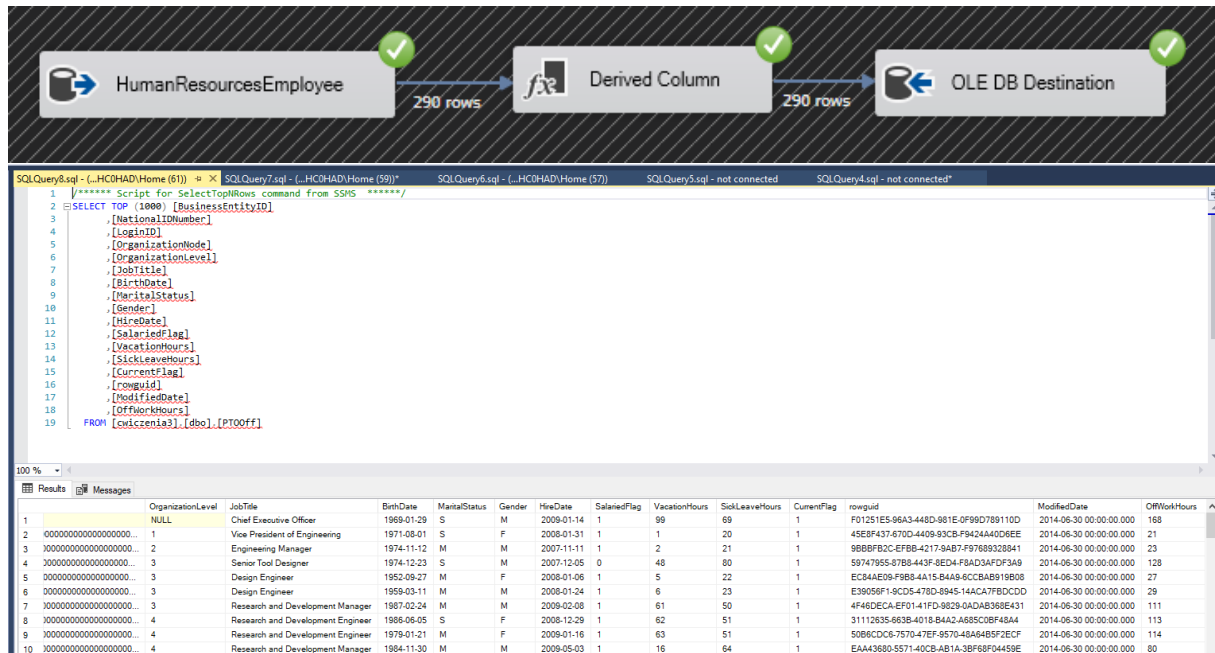
## ZADANIE 4

Wykonano left outer join.



```
1,295847284,adventure-works\ken0,,,Chief Executive Officer,1969-01-29,S,M,2009-01-14,True,99,69,True,{F01251E5-96A3-4480-981E-0F9907891180},2014-06-30 00:00:00,1,EM,False,,Ken,J,Sánchez
2,245797967,adventure-works\terni0,58,1,Vice President of Engineering,1971-08-01,S,F,2008-01-31,True,1,20,True,{45E8F437-6700-4409-93CB-F9424A40D6EE},2014-06-30 00:00:00,2,EM,False,,Terri, Lee,Duffy
3,509647174,adventure-works\roberto0,5A00,2,Engineering Manager,1974-11-12,M,M,2007-11-11,True,2,21,True,{988BF82C-EF88-4217-9AB7-F97689328841},2014-06-30 00:00:00,3,EM,False,,Roberto,,Tamburello
4,112457891,adventure-works\rob0,5A06,3,Senior Tool Designer,1974-12-23,S,M,2007-12-05,False,48,80,True,{59747955-87B8-443F-8ED4-F8AD3AFDF3A9},2014-06-30 00:00:00,4,EM,False,,Rob,,Walters
5,695256988,adventure-works\gail0,5ADA,3,Design Engineer,1952-09-27,M,F,2008-01-06,True,5,22,True,{EC844E09-F988-4A15-84A9-6CCB89198080},2014-06-30 00:00:00,5,EM,False,Ms.,Gail,A,Erickson
6,998328692,adventure-works\jossef0,5ADE,3,Design Engineer,1959-03-11,M,M,2008-01-24,True,6,23,True,{E39056F1-9CD5-478D-8945-14ACA7FB0CDD},2014-06-30 00:00:00,6,EM,False,Mr.,Jossef,H,Goldberg
```

## ZADANIE 5



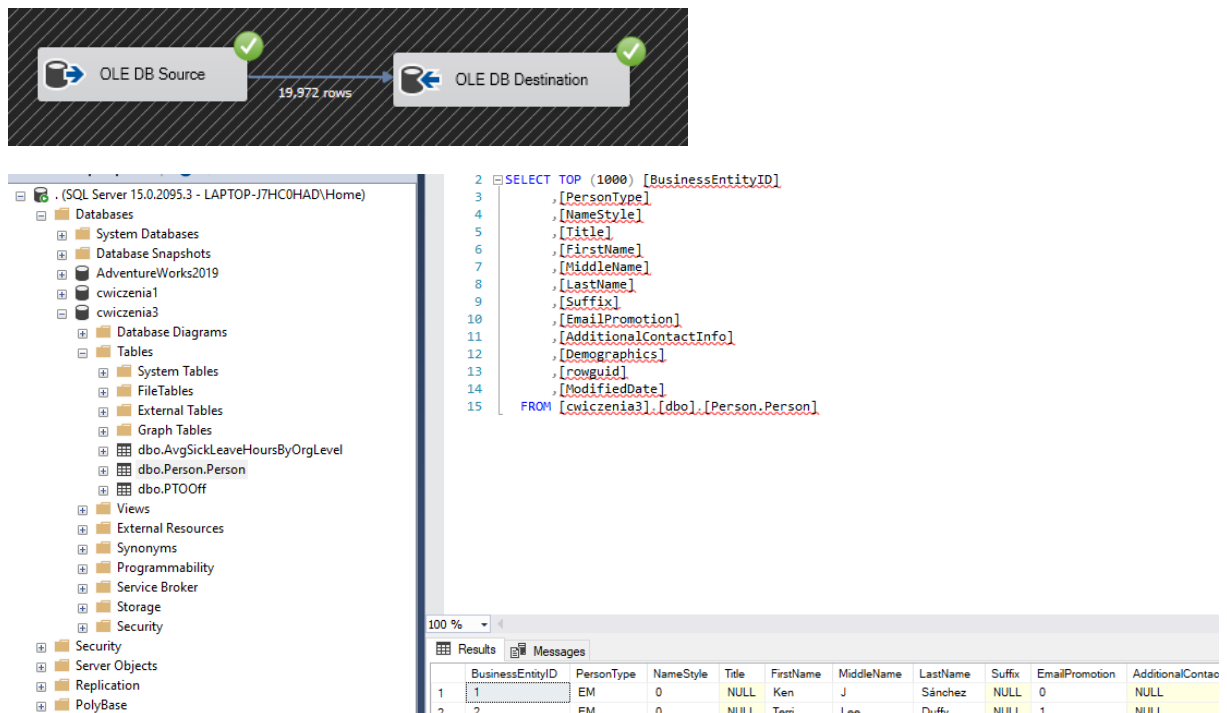
The SSIS package diagram shows a data flow from 'HumanResourcesEmployee' (290 rows) to a 'Derived Column' task (290 rows) and then to an 'OLE DB Destination' (290 rows). All tasks are marked with green checkmarks.

The SQL query in the 'Derived Column' task is as follows:

```
1 /***** Script for SelectTopRows command from SSIS *****/
2 SELECT TOP (1000) [BusinessEntityID]
3 , [NationalIDNumber]
4 , [LoginID]
5 , [OrganizationNode]
6 , [OrganizationLevel]
7 , [JobTitle]
8 , [BirthDate]
9 , [MaritalStatus]
10 , [Gender]
11 , [HireDate]
12 , [SalariedFlag]
13 , [VacationHours]
14 , [SickLeaveHours]
15 , [CurrentFlag]
16 , [rowguid]
17 , [ModifiedDate]
18 , [OffworkHours]
19 FROM [cwiczenia3].[dbo].[PTOOff]
```

The results table shows the following columns: OrganizationLevel, JobTitle, BirthDate, MaritalStatus, Gender, HireDate, SalariedFlag, VacationHours, SickLeaveHours, CurrentFlag, rowguid, ModifiedDate, OffworkHours.

## ZADANIE 6



The SSIS package diagram shows a data flow from an 'OLE DB Source' (19,972 rows) to an 'OLE DB Destination' (19,972 rows). Both tasks are marked with green checkmarks.

The SQL query in the 'OLE DB Source' task is as follows:

```
1 SELECT TOP (1000) [BusinessEntityID]
2 , [PersonType]
3 , [NameStyle]
4 , [Title]
5 , [FirstName]
6 , [MiddleName]
7 , [LastName]
8 , [Suffix]
9 , [EmailPromotion]
10 , [AdditionalContactInfo]
11 , [Demographics]
12 , [rowguid]
13 , [ModifiedDate]
14 FROM [cwiczenia3].[dbo].[Person.Person]
```

The results table shows the following columns: BusinessEntityID, PersonType, NameStyle, Title, FirstName, MiddleName, LastName, Suffix, EmailPromotion, AdditionalContactInfo.

DODANIE WIERSZA:

```

1 INSERT INTO [person.person] ([BusinessEntityID], [rowguid], [ModifiedDate],
2 [PersonType], [NameStyle], [Title], [FirstName], [MiddleName], [LastName], [Suffix],
3 [EmailPromotion], [AdditionalContactInfo], [Demographics])
4 VALUES (20880, '92C4279F-1207-48A3-8448-4636514EB7E3', CURRENT_TIMESTAMP, 'EM', 0,
5 'Mr.', 'Chris', 'Albert', 'White', null, 0, null, '<IndividualSurvey
6 xmlns="http://schemas.microsoft.com/sqlserver/2004/07/adventureworks/IndividualSurvey"><TotalPurchaseYTD>0</TotalPurchaseYTD></IndividualSurvey>')
7

```

100 %

Messages

(1 row affected)

Completion time: 2022-10-21T22:10:25.6906299+02:00

```

1 /***** Script for SelectTopNRows command from SSMS *****/
2 SELECT TOP (1000) [BusinessEntityID]
3     [PersonType]
4     [NameStyle]
5     [Title]
6     [FirstName]
7     [MiddleName]
8     [LastName]
9     [Suffix]
10    [EmailPromotion]
11    [AdditionalContactInfo]
12    [Demographics]
13    [rowguid]
14    [ModifiedDate]
15 FROM [cwiczenia3].[dbo].[Person.Person]
16 order by [BusinessEntityID] desc

```

100 %

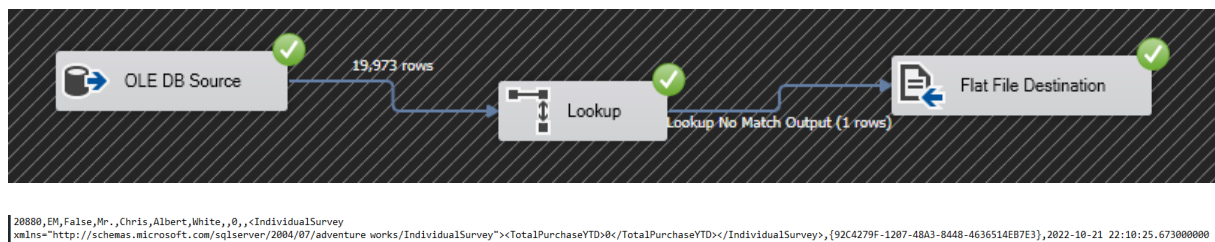
Results Messages

	BusinessEntityID	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix	EmailPromotion	AdditionalContactInfo	Demographics	rowguid	ModifiedDate
1	20880	EM	0	Mr.	Chris	Albert	White	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.miros...	92C4279F-1207-48A3-8448-4636514EB7E3	2022-10-21 22:10:25.673
2	20777	IN	0	NULL	Crystal	NULL	Hu	NULL	0	NULL	<IndividualSurvey xmlns="http://schemas.microso...	1773C8F3-2CC7-4826-A7F5-30D3F36543CD	2013-10-16 00:00:00.000

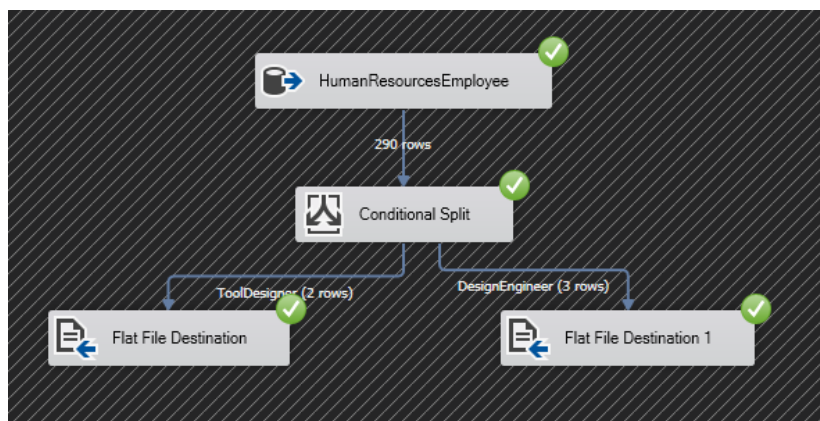
RÓŻNICA POMIĘDZY TABELĄ ZMIENIONĄ A BAZOWĄ:

No match output – Jeśli nie ma dopasowań to wyniki są wrzucone do tej tabeli.

Na początku w source należy dać tabele z większą liczbą rekordów.



## ZADANIE 7



### Design Engineer

```

BusinessEntityID, NationalIDNumber, LoginID, OrganizationNode, OrganizationLevel, JobTitle, BirthDate, MaritalStatus, Gender, HireDate, SalariedFlag, VacationHours, SickLeaveHours, CurrentFlag, rowguid, ModifiedDate
5, 695256908, adventure-works\gail0, SADA, 3, Design Engineer, 1952-09-27, M, F, 2008-01-06, True, 5, 22, True, {EC84AE09-F9B8-4A15-B4A9-6CCB8919B88}, 2014-06-30 00:00:00
6, 998328692, adventure-works\jossef0, SADE, 3, Design Engineer, 1959-03-11, M, M, 2008-01-24, True, 6, 23, True, {E39056F1-9C05-478D-8945-14ACA7F8DC0D}, 2014-06-30 00:00:00
15, 56920285, adventure-works\sharon0, SAE7, 3, Design Engineer, 1961-05-02, M, F, 2011-01-18, True, 4, 22, True, {54F2FDC0-87C4-4065-A7A8-9AC8EA624235}, 2014-06-30 00:00:00

```

### Tool Designer

```

BusinessEntityID, NationalIDNumber, LoginID, OrganizationNode, OrganizationLevel, JobTitle, BirthDate, MaritalStatus, Gender, HireDate, SalariedFlag, VacationHours, SickLeaveHours, CurrentFlag, rowguid, ModifiedDate
13, 486228782, adventure-works\janice0, SAE368, 4, Tool Designer, 1989-05-28, M, F, 2010-12-23, False, 8, 24, True, {954B91B6-SAA7-48C2-8685-6E11C6E5C49A}, 2014-06-30 00:00:00

```