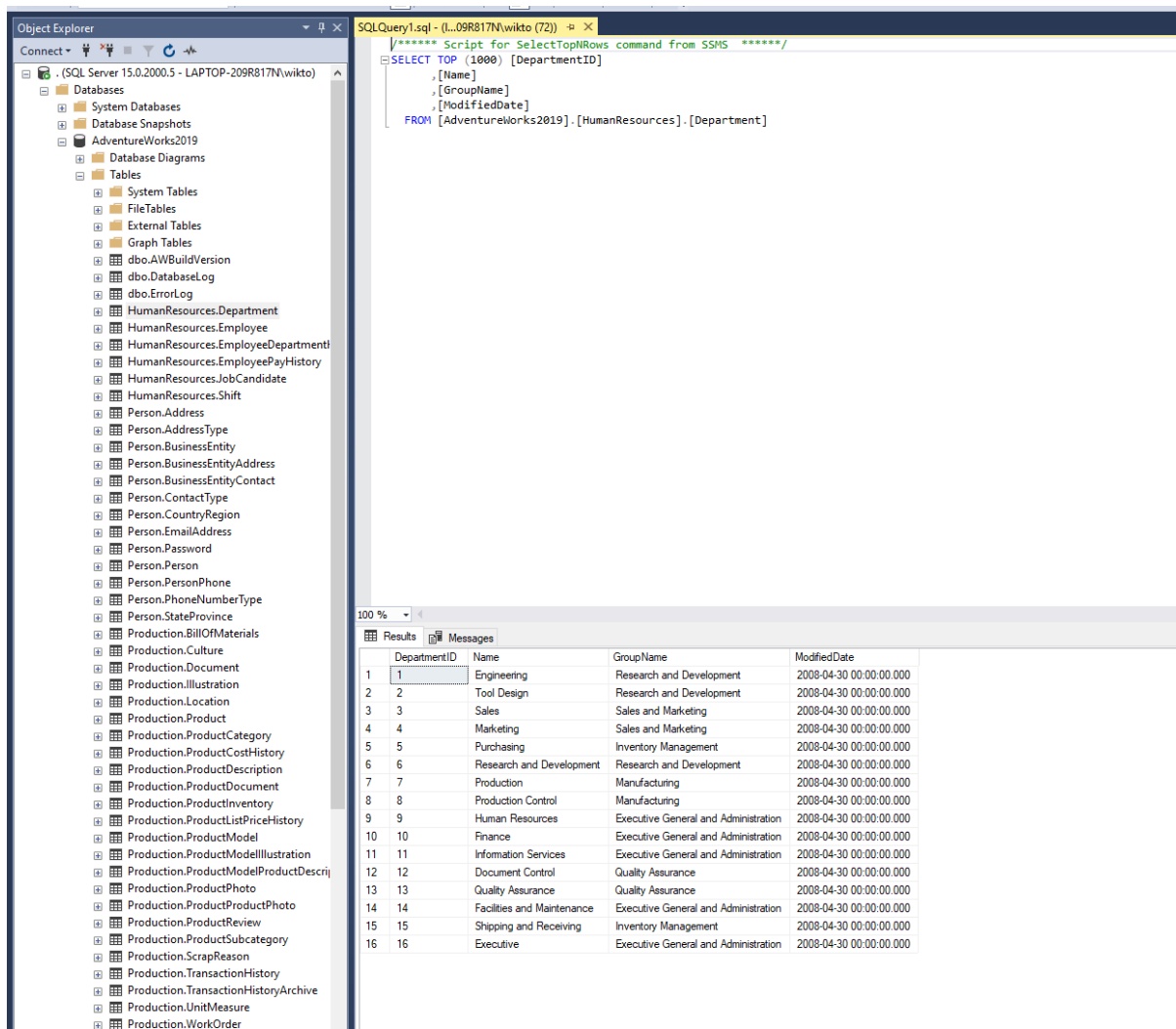


## Zad1



The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure, including the HumanResources database and its tables. The SQL Query window on the right shows a query that selects the top 1000 rows from the HumanResources.Department table, ordered by DepartmentID. The query is as follows:

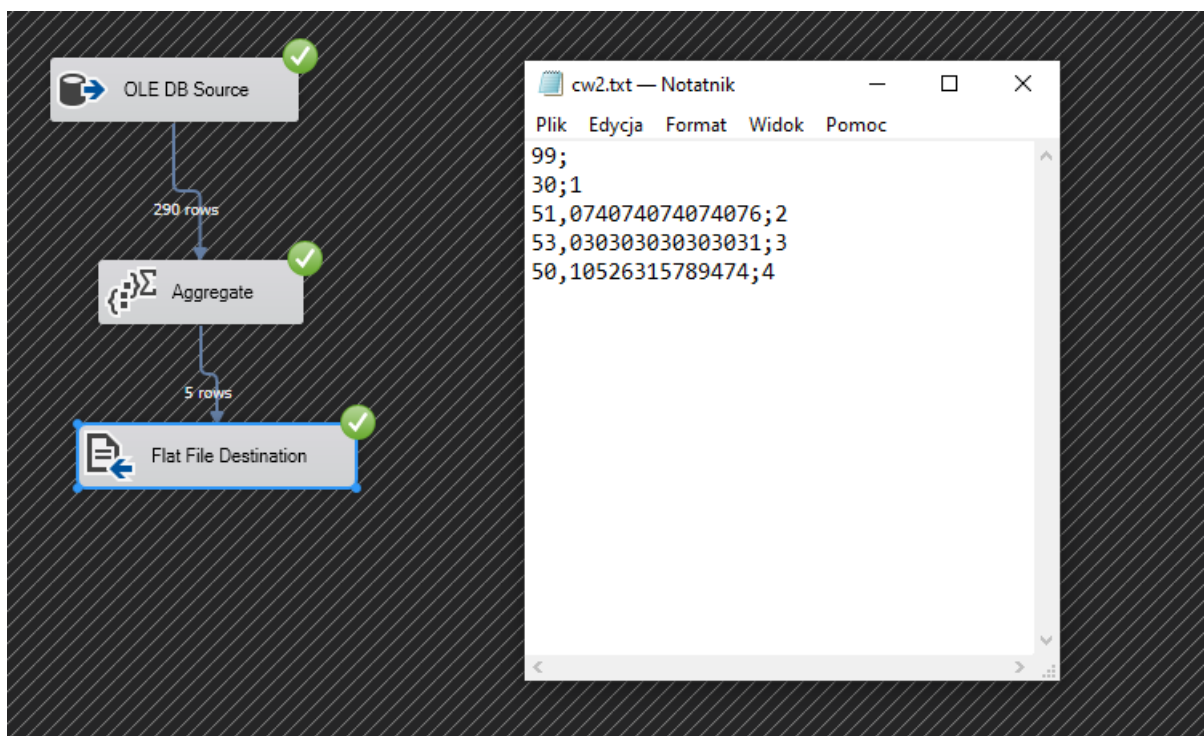
```

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

The Results pane at the bottom displays the query output as a table with 16 rows and 4 columns: DepartmentID, Name, GroupName, and ModifiedDate.

	DepartmentID	Name	GroupName	ModifiedDate
1	1	Engineering	Research and Development	2008-04-30 00:00:00.000
2	2	Tool Design	Research and Development	2008-04-30 00:00:00.000
3	3	Sales	Sales and Marketing	2008-04-30 00:00:00.000
4	4	Marketing	Sales and Marketing	2008-04-30 00:00:00.000
5	5	Purchasing	Inventory Management	2008-04-30 00:00:00.000
6	6	Research and Development	Research and Development	2008-04-30 00:00:00.000
7	7	Production	Manufacturing	2008-04-30 00:00:00.000
8	8	Production Control	Manufacturing	2008-04-30 00:00:00.000
9	9	Human Resources	Executive General and Administration	2008-04-30 00:00:00.000
10	10	Finance	Executive General and Administration	2008-04-30 00:00:00.000
11	11	Information Services	Executive General and Administration	2008-04-30 00:00:00.000
12	12	Document Control	Quality Assurance	2008-04-30 00:00:00.000
13	13	Quality Assurance	Quality Assurance	2008-04-30 00:00:00.000
14	14	Facilities and Maintenance	Executive General and Administration	2008-04-30 00:00:00.000
15	15	Shipping and Receiving	Inventory Management	2008-04-30 00:00:00.000
16	16	Executive	Executive General and Administration	2008-04-30 00:00:00.000

## Zad2



The screenshot shows the SQL Server Data Tools (SSDT) interface. The Data Flow Task is configured with the following steps:

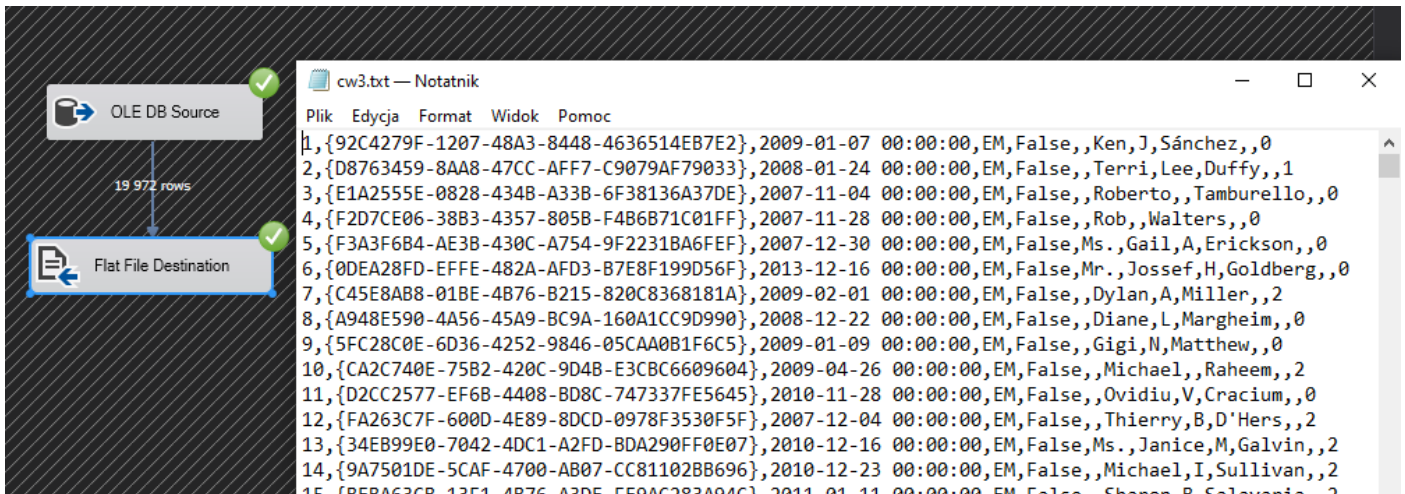
- OLE DB Source**: Connected to the AdventureWorks2019 database, selecting the HumanResources.Department table. It outputs 290 rows.
- Aggregate**: Aggregates the data by DepartmentID, Name, and GroupName, calculating the count of rows for each combination. It outputs 5 rows.
- Flat File Destination**: Writes the aggregated data to a flat file.

The output data is shown in the Notepad window (cw2.txt):

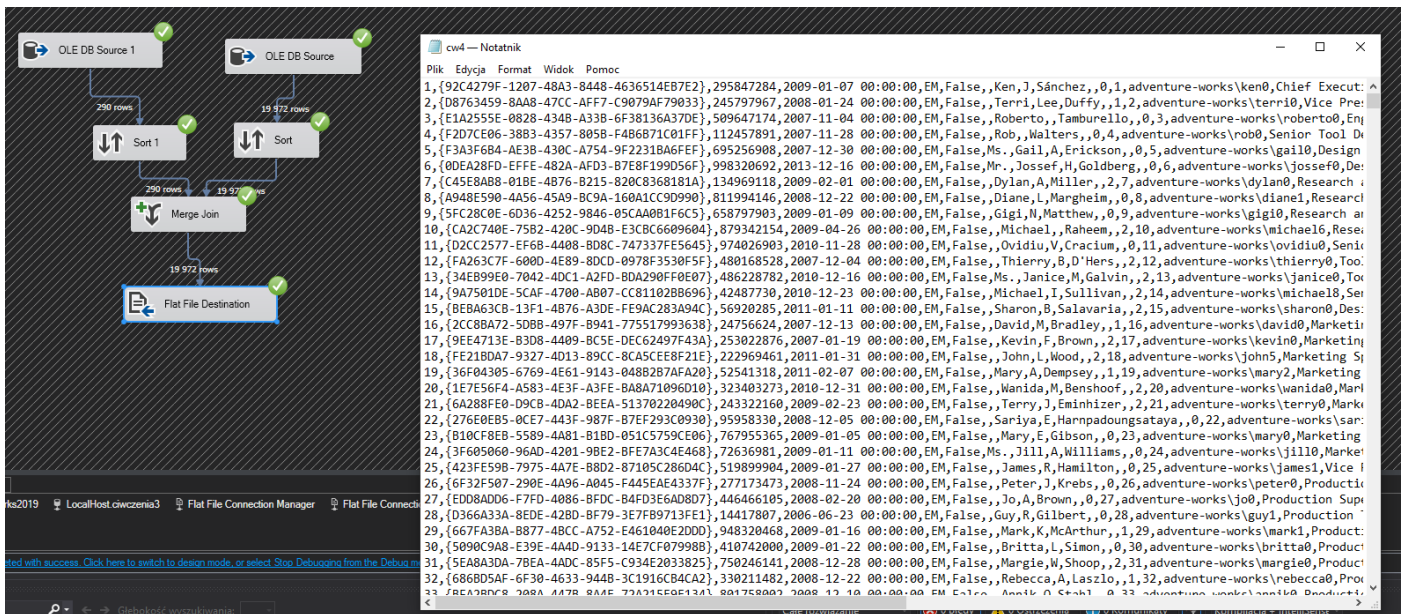
```

99;
30;1
51,074074074074076;2
53,030303030303031;3
50,10526315789474;4
  
```

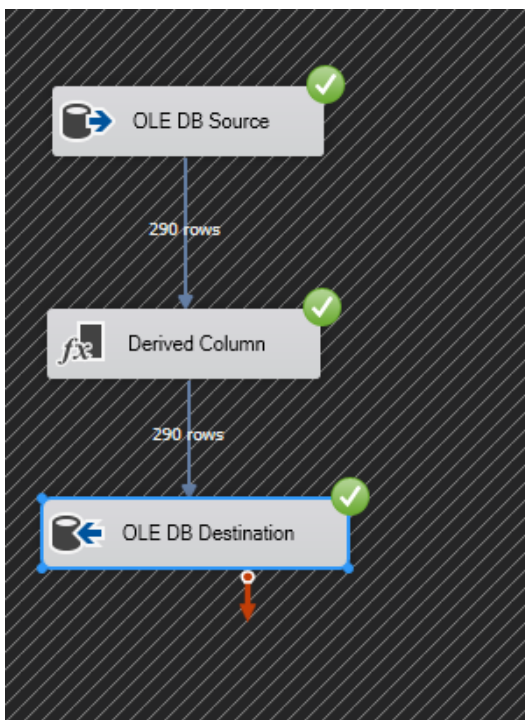
## Zad3



## Zad4



## Zad5



Object Explorer

Connect

(SQL Server 15.0.2000.5 - LAPTOP-209R817N(wikto))

- Databases
  - System Databases
  - Database Snapshots
  - AdventureWorks2019
  - ciwccenia3
    - Database Diagrams
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
      - dbo.cw5
    - Views
    - External Resources
    - Synonyms
    - Programmability
    - Service Broker
    - Storage
    - Security
  - CW1
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent (Agent XPs disabled)
  - XEvent Profiler

SQLQuery6.sql - (L...09R817N(wikto (74))

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [BusinessEntityID]
, [rowguid]
, [ModifiedDate]
, [NationalIDNumber]
, [LoginID]
, [OrganizationNode]
, [OrganizationLevel]
, [JobTitle]
, [BirthDate]
, [MaritalStatus]
, [Gender]
, [HireDate]
, [SalariedFlag]
, [VacationHours]
, [SickLeaveHours]
, [CurrentFlag]

```

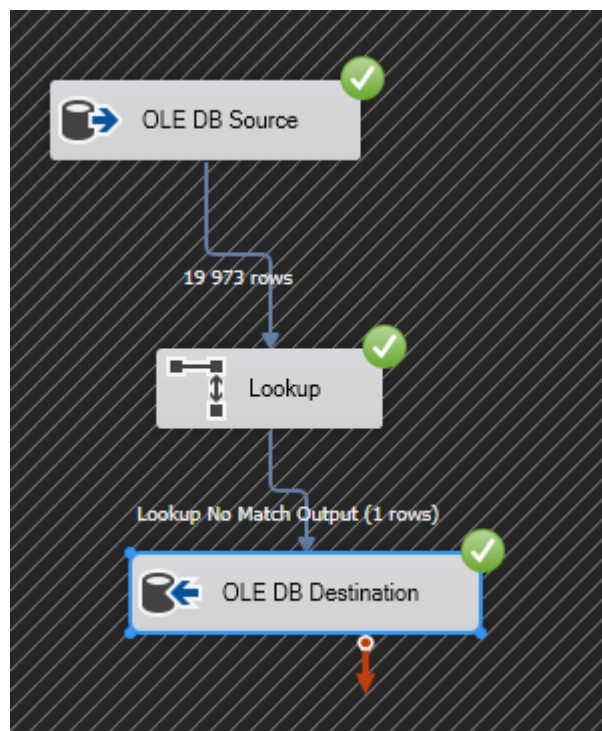
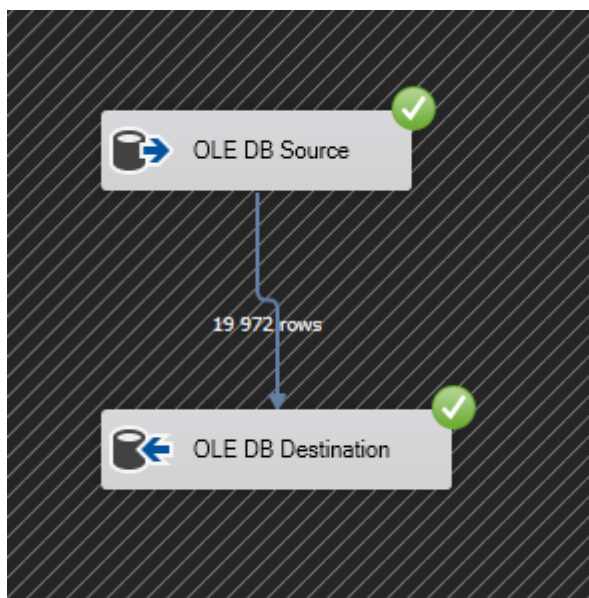
SQLQuery5.sql - (L...09R817N(wikto (54))

SQLQuery4.sql - (L...09R817N(wikto (52))

Results

	Title	BirthDate	MaritalStatus	Gender	HireDate	SalariedFlag	VacationHours	SickLeaveHours	CurrentFlag	OffWorkHours
1	Executive Officer	1969-01-29	S	M	2009-01-14	1	99	69	1	168
2	President of Engineering	1971-08-01	S	F	2008-01-31	1	1	20	1	21
3	Engineering Manager	1974-11-12	M	M	2007-11-11	1	2	21	1	23
4	Senior Tool Designer	1974-12-23	S	M	2007-12-05	0	48	80	1	128
5	Senior Engineer	1952-09-27	M	F	2008-01-06	1	5	22	1	27
6	Senior Engineer	1959-03-11	M	M	2008-01-24	1	6	23	1	29
7	Research and Development Manager	1987-02-24	M	M	2009-02-08	1	61	50	1	111
8	Research and Development Engineer	1986-06-05	S	F	2008-12-29	1	62	51	1	113
9	Research and Development Engineer	1979-01-21	M	F	2009-01-16	1	63	51	1	114
10	Research and Development Manager	1984-11-30	M	M	2009-05-03	1	16	64	1	80
11	Senior Tool Designer	1978-01-17	S	M	2010-12-05	0	7	23	1	30
12	Tool Designer	1959-07-29	M	M	2007-12-11	0	9	24	1	33
13	Tool Designer	1989-05-28	M	F	2010-12-23	0	8	24	1	32
14	Senior Design Engineer	1979-06-16	S	M	2010-12-30	1	3	21	1	24
15	Senior Engineer	1961-05-02	M	F	2011-01-18	1	4	22	1	26
16	Marketing Manager	1975-03-19	S	M	2007-12-20	1	40	40	1	80
17	Marketing Assistant	1987-05-03	S	M	2007-01-26	0	42	41	1	83
18	Marketing Specialist	1978-03-06	S	M	2011-02-07	0	48	44	1	92
19	Marketing Assistant	1978-01-29	S	F	2011-02-14	0	43	41	1	84

Zad6



Object Explorer

Connect - (SQL Server 15.0.2000.5 - LAPTOP-209R817N\wikto)

Databases

- System Databases
- Database Snapshots
- AdventureWorks2019
- ciwczenia3
  - Database Diagrams
  - Tables
    - System Tables
    - FileTables
    - External Tables
    - Graph Tables
    - dbo.cw5
    - dbo.difference
      - Columns
      - Keys
      - Constraints
      - Triggers
      - Indexes
      - Statistics
    - dbo.person.person
  - Views
  - External Resources
  - Synonyms
  - Programmability
  - Service Broker
  - Storage
  - Security
- CWI
- Security

SQLQuery8.sql - (L...09R817N\wikto (55))

```
/****** Script for SelectTopNRows command from SSMS ******/
SELECT TOP (1000) [BusinessEntityID]
, [rowguid]
, [ModifiedDate]
, [PersonType]
, [NameStyle]
, [Title]
, [FirstName]
, [MiddleName]
, [LastName]
, [Suffix]
, [EmailPromotion]
, [AdditionalContactInfo]
, [Demographics]
FROM [ciwczenia3].[dbo].[difference]
```

SQLQuery7.sql - (L...09R817N\wikto (77))\*

SQLQuery6.sql - (L...09R817N\wikto (74))\*

Results

	BusinessEntityID	rowguid	ModifiedDate	PersonType	NameStyle	Title	FirstName	MiddleName	LastName	Suffix
1	20880	92C4279F-1207-48A3-8448-4636514EB7E3	2022-10-23 00:06:08.380	EM	0	Mr.	Chris	Albert	White	NULL

Zad7

