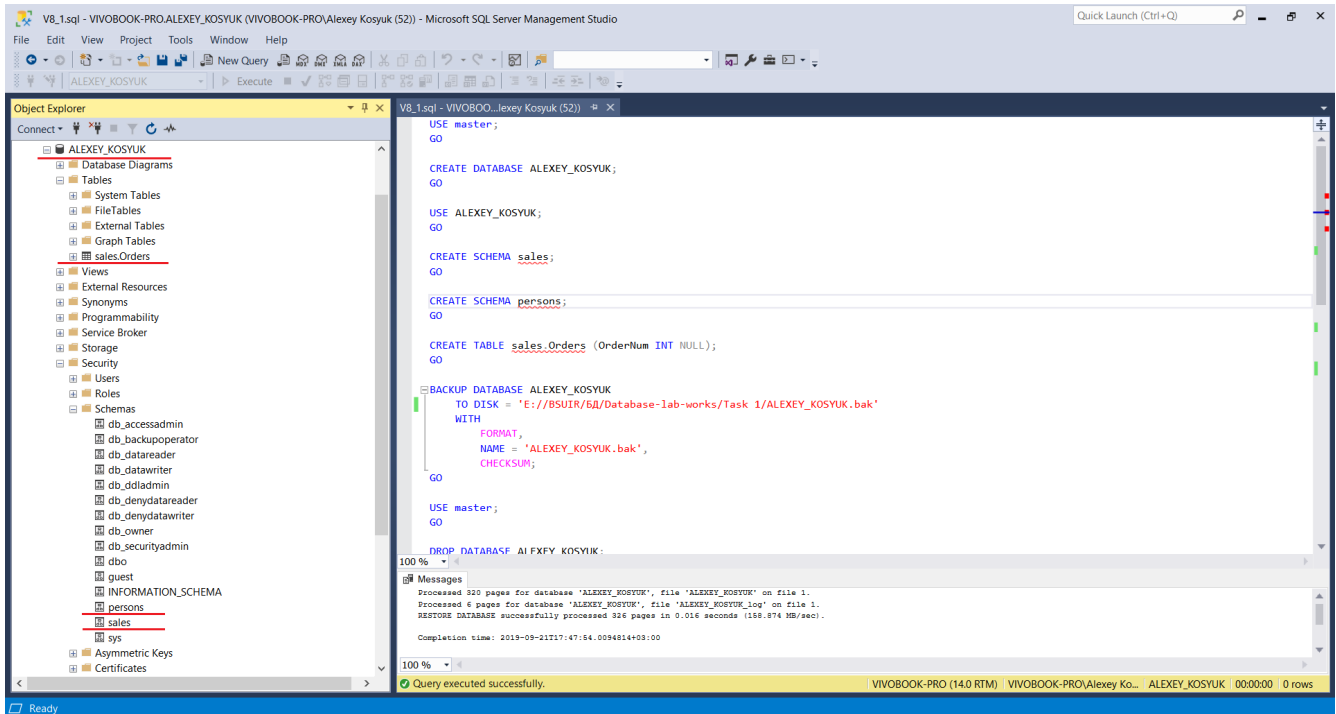


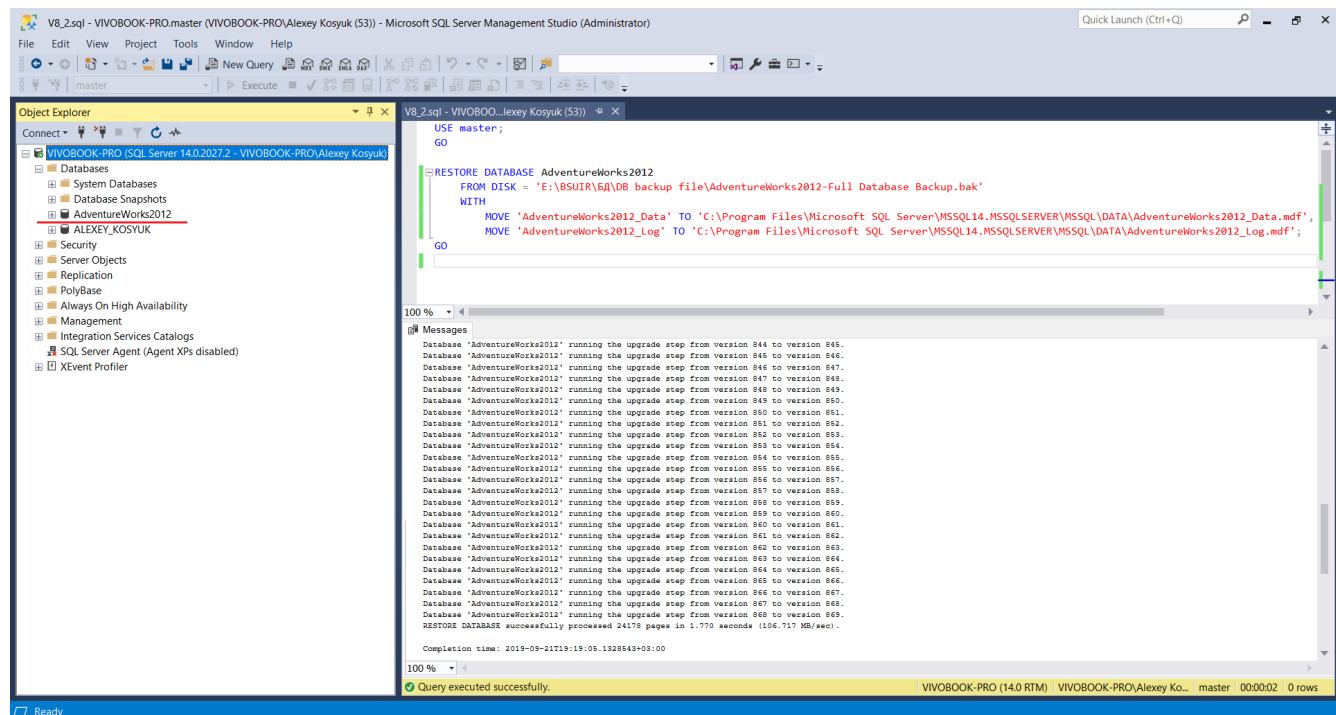
REPORT FOR TASK 1, VARIANT # 8

1. First subtask:



2. Second subtask:

2.1 Restore database AdventureWorks2012:



2.2 Subtask 2.1:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for AdventureWorks2012. The Query window on the right contains the following SQL script:

```
USE master;
GO

RESTORE DATABASE AdventureWorks2012
FROM DISK = 'E:\BSUIR\6\1\08 backup file\AdventureWorks2012-Full Database Backup.bak'
WITH
MOVE 'AdventureWorks2012_Data' TO 'C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\AdventureWorks2012_Data.mdf',
MOVE 'AdventureWorks2012_Log' TO 'C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\AdventureWorks2012_Log.mdf';

GO

USE AdventureWorks2012;
GO

-- First subtask
SELECT BusinessEntityID, BirthDate, MaritalStatus, Gender, HireDate
FROM [HumanResources].[Employee]
WHERE MaritalStatus = 'S' AND YEAR(BirthDate) <= 1960
GO
```

The Results pane at the bottom shows the output of the query, displaying 8 rows of employee data:

BusinessEntityID	BirthDate	MaritalStatus	Gender	HireDate
27	1950-11-09	S	F	2002-03-30
40	1950-02-16	S	F	2002-01-26
49	1950-04-27	S	M	2002-02-07
51	1950-08-12	S	M	2002-03-23
63	1949-03-02	S	M	2004-03-01
206	1956-10-14	S	M	2003-01-03
262	1958-07-23	S	M	2003-02-13
277	1956-09-29	S	F	2005-07-01

The status bar at the bottom indicates the query was executed successfully, showing 8 rows of data.

2.3 Subtask 2.2:

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for AdventureWorks2012. The Query window on the right contains the following SQL script:

```
USE AdventureWorks2012;
GO

-- First subtask
SELECT BusinessEntityID, BirthDate, MaritalStatus, Gender, HireDate
FROM [HumanResources].[Employee]
WHERE MaritalStatus = 'S' AND YEAR(BirthDate) <= 1960;

-- Second subtask
SELECT BusinessEntityID, JobTitle, MaritalStatus, Gender, HireDate
FROM [HumanResources].[Employee]
WHERE JobTitle = 'Design Engineer'
ORDER BY HireDate DESC;

-- Third subtask
SELECT BusinessEntityID, DepartmentID, StartDate, EndDate, YEAR(ISNULL(EndDate, GETDATE())) - YEAR(StartDate) AS 'YearsWorked'
FROM [HumanResources].[Employee]
WHERE DepartmentID = 1
GO

USE master;
GO
```

The Results pane at the bottom shows the output of the query, displaying 3 rows of employee data:

BusinessEntityID	JobTitle	MaritalStatus	Gender	HireDate
15	Design Engineer	M	F	2005-02-18
6	Design Engineer	M	M	2002-02-24
5	Design Engineer	M	F	2002-02-06

The status bar at the bottom indicates the query was executed successfully, showing 3 rows of data.

V8_2.sql - VIVOBOOK-PRO\AdventureWorks2012 (VIVOBOOK-PRO\Alexey Kosyuk (53)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

AdventureWorks2012 Execute

Object Explorer

Connect +

VIVOBOOK-PRO (SQL Server 14.0.2027.2 - VIVOBOOK-PRO\Alexey Kosyuk)

Databases

- System Databases
- Database Snapshots
- AdventureWorks2012
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.AWBuildVersion
 - dbo.DatabaseLog
 - dbo.ErrorLog
 - HumanResources.Department
 - HumanResources.Employee
 - Columns
 - BusinessEntityID (PK, FK, int, not null)
 - DepartmentID (PK, FK, smallint, not null)
 - ShiftID (PK, FK, tinyint, not null)
 - StartDate (PK, date, not null)
 - EndDate (date, null)
 - ModifiedDate (datetime, not null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - HumanResources.EmployeePayHistory
 - HumanResources.JobCandidate
 - HumanResources.Shift
 - Person.Address
 - Person.AddressType
 - Person.BusinessEntity

V8_2.sql - VIVOBOOK-PRO\Alexey Kosyuk (53)

```
GO
USE AdventureWorks2012;
GO

-- First subtask
SELECT BusinessEntityID, BirthDate, MaritalStatus, Gender, HireDate
FROM [HumanResources].Employee
WHERE MaritalStatus = 'S' AND YEAR(BirthDate) <= 1960;

-- Second subtask
SELECT BusinessEntityID, JobTitle, MaritalStatus, Gender, HireDate
FROM [HumanResources].Employee
WHERE JobTitle = 'Design Engineer';

-- Third subtask
SELECT BusinessEntityID, DepartmentID, StartDate, EndDate, YEAR(ISNULL(EndDate, GETDATE())) - YEAR(StartDate) AS 'YearsWorked'
FROM [HumanResources].EmployeeDepartmentHistory
WHERE DepartmentID = 1
GO
```

Results

	BusinessEntityID	DepartmentID	StartDate	EndDate	YearsWorked
1	2	1	2002-03-03	NULL	17
2	3	1	2001-12-12	NULL	18
3	4	1	2002-01-05	2004-06-30	2
4	5	1	2002-02-06	NULL	17
5	6	1	2002-02-24	NULL	17
6	14	1	2005-01-30	NULL	14
7	15	1	2005-02-18	NULL	14

100 %

Query executed successfully.

VIVOBOOK-PRO (14.0 RTM) VIVOBOOK-PRO\Alexey Ko... AdventureWorks2012 00:00:00 7 rows

Item(s) Saved Ln 28 Col 23 Ch 23 INS