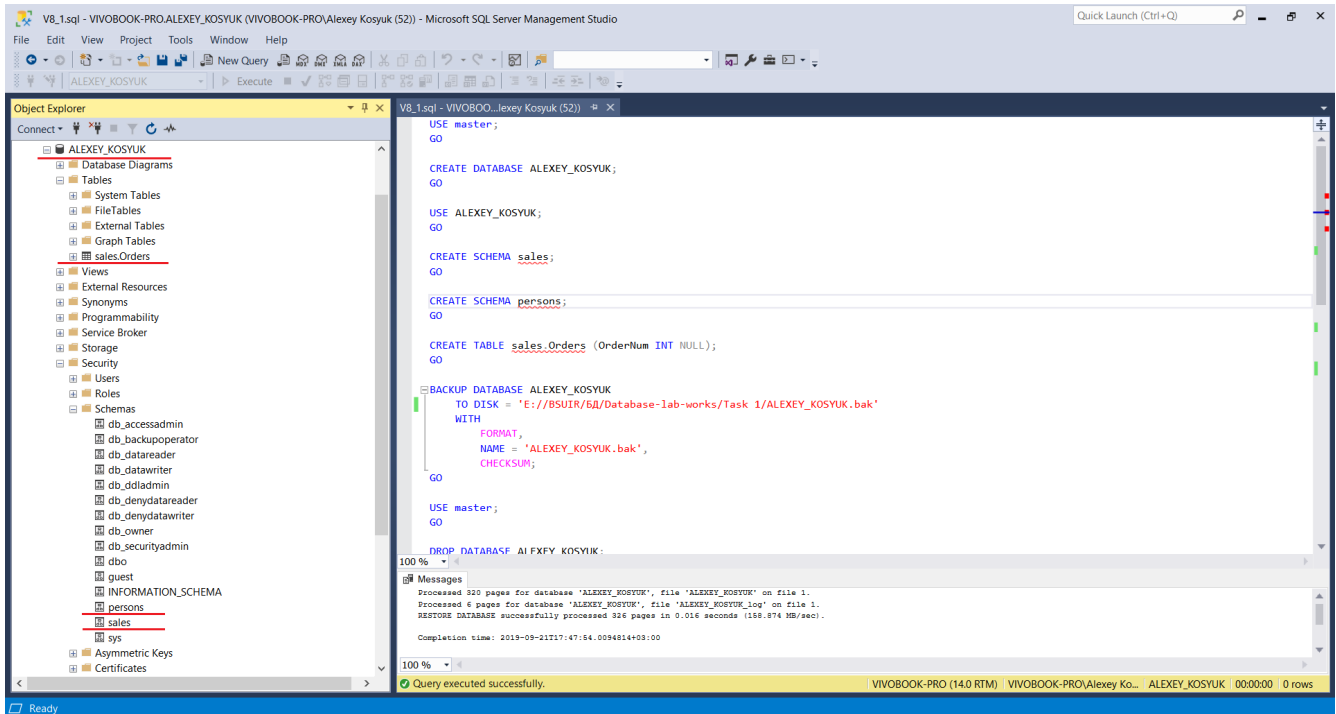


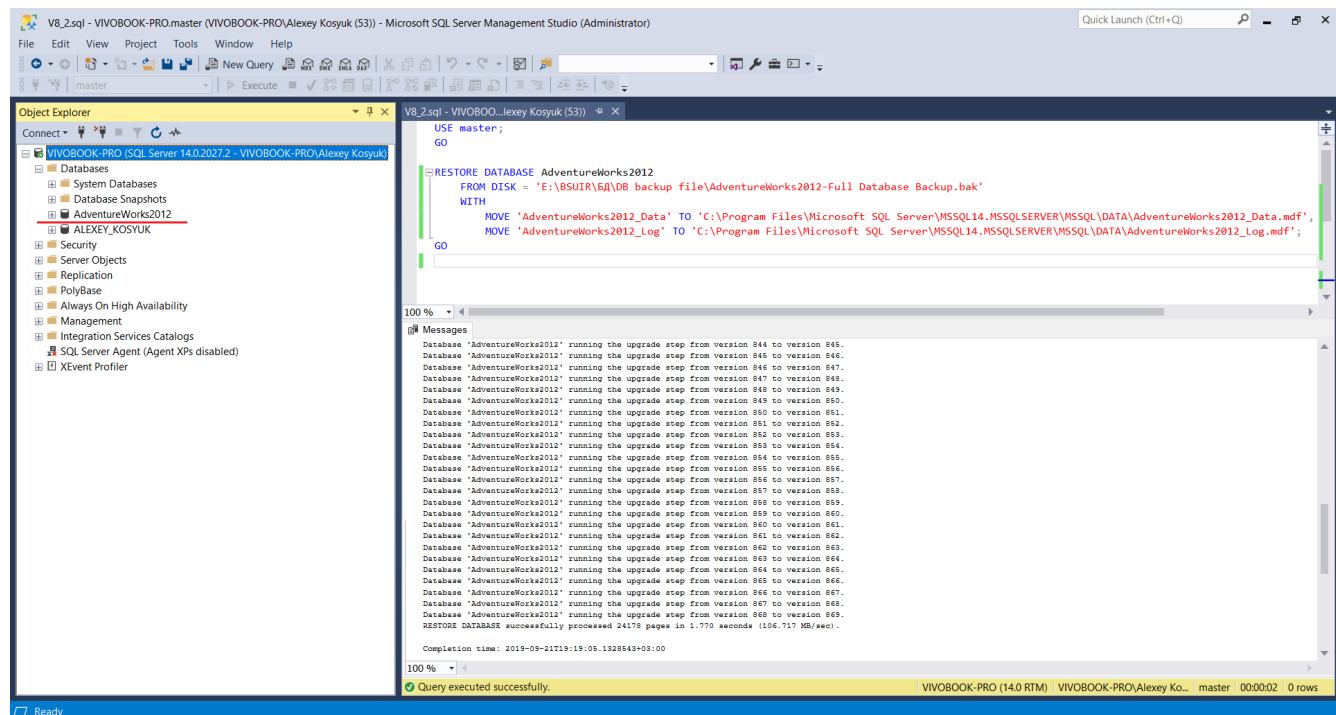
REPORT FOR TASK 1, VARIANT # 8

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 (SSMS) interface. The Object Explorer on the left displays the database structure for AdventureWorks2012. The Query Editor on the right contains the following T-SQL script:

```
USE master;
GO

RESTORE DATABASE AdventureWorks2012
FROM DISK = 'E:\BSUIR\6Q\DB 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 "Query executed successfully." and "VIVOBOOK-PRO (14.0 RTM) VIVOBOOK-PRO\Alexey Ko... AdventureWorks2012 00:00:00 8 rows".

2.3 Subtask 2.2:

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer on the left displays the database structure for AdventureWorks2012. The Query Editor on the right contains the following T-SQL script:

```
RESTORE DATABASE AdventureWorks2012
FROM DISK = 'E:\BSUIR\6Q\DB 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;

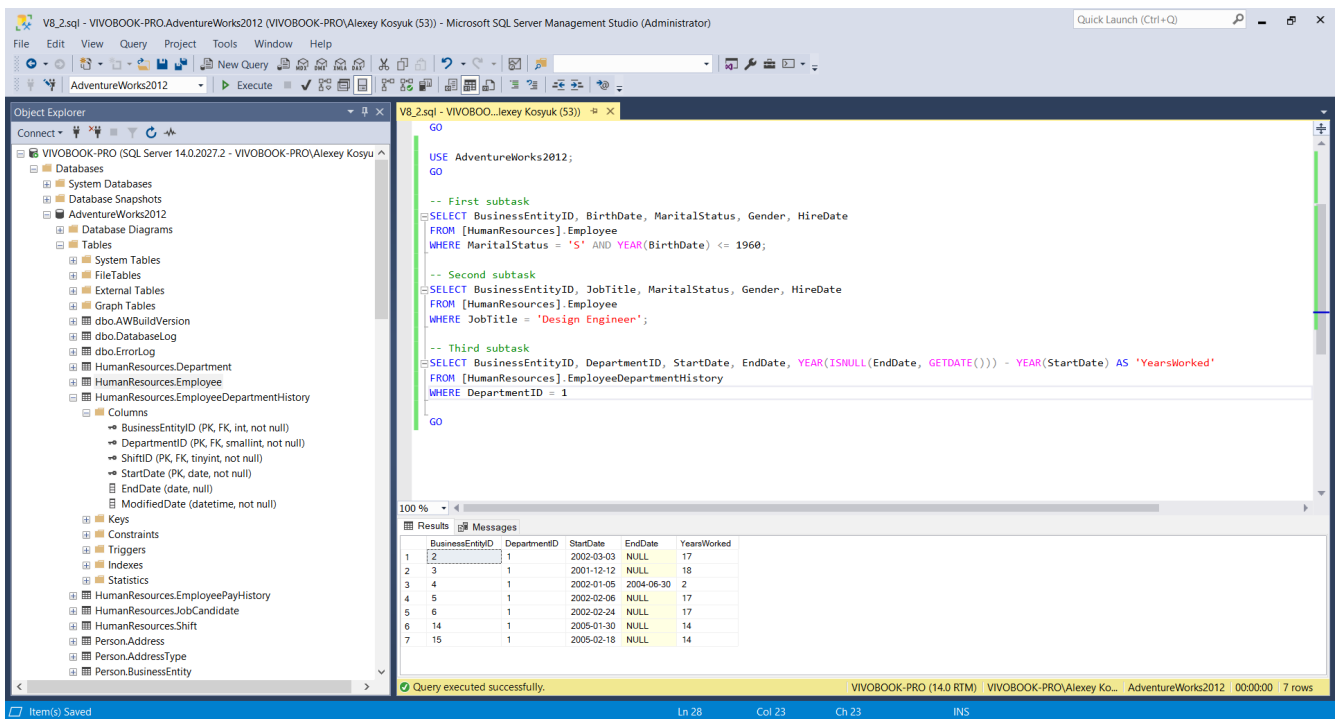
-- Second subtask
SELECT BusinessEntityID, JobTitle, MaritalStatus, Gender, HireDate
FROM [HumanResources].Employee
WHERE JobTitle = 'Design Engineer';
GO
```

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

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

The status bar at the bottom indicates "Query executed successfully." and "VIVOBOOK-PRO (14.0 RTM) VIVOBOOK-PRO\Alexey Ko... AdventureWorks2012 00:00:00 3 rows".

2.4 Subtask 2.3:



The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The left pane shows the Object Explorer with the AdventureWorks2012 database selected. The central pane contains a SQL query with three subtasks. The bottom pane shows the results of the query execution, displaying 7 rows of data.

Query:

```
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
2	1	2002-03-03	NULL	17
3	1	2001-12-12	NULL	18
4	1	2002-01-05	2004-06-30	2
5	1	2002-02-06	NULL	17
6	1	2002-02-24	NULL	17
14	1	2005-01-30	NULL	14
15	1	2005-02-18	NULL	14

Query executed successfully.