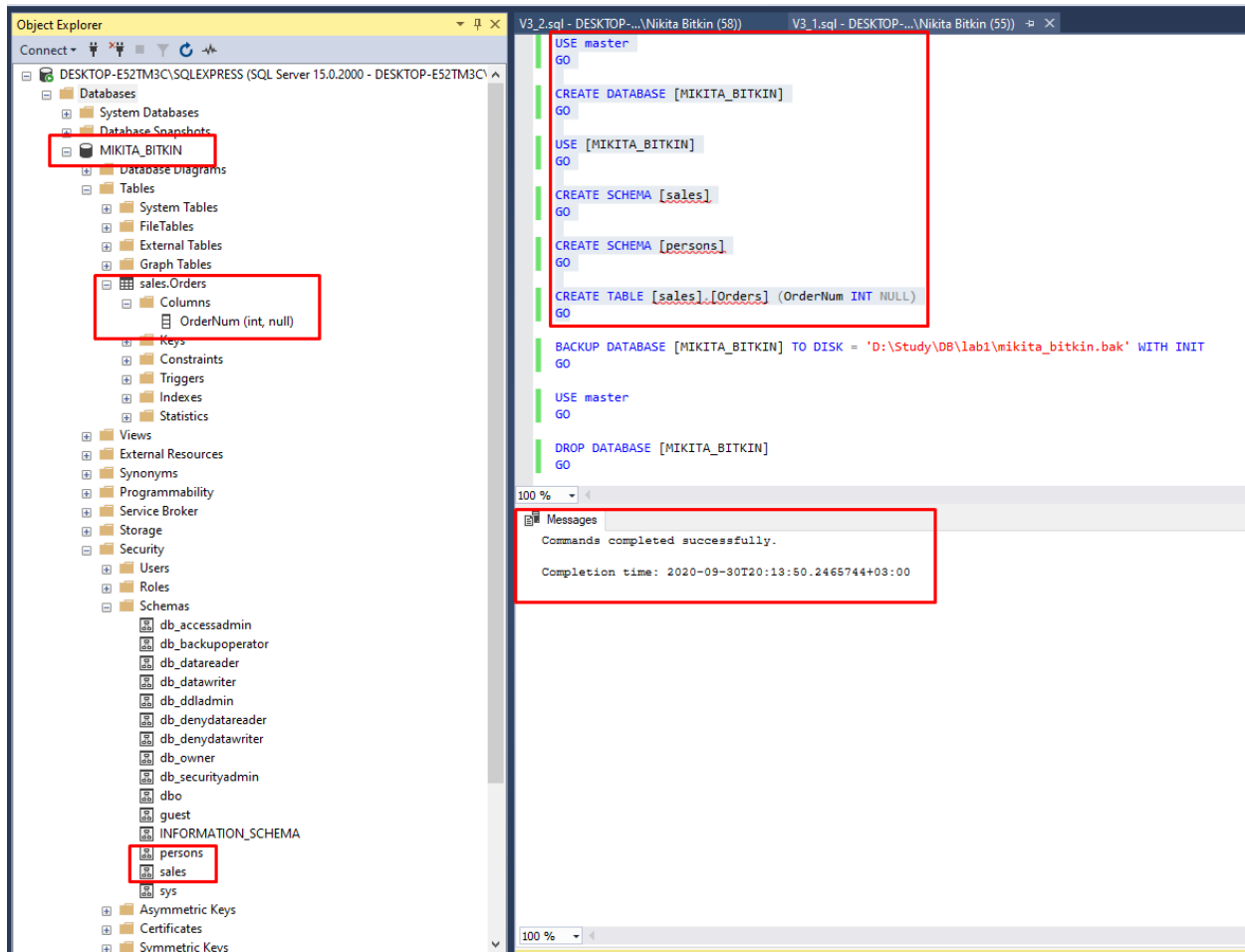


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Лабораторная №1, Вариант 3.

Задание 1.1.

- Создание базы, добавление схем, добавление таблицы.



- Создание бэкапа

The screenshot shows a SQL Server Enterprise Manager window with a query editor and a messages pane. The query editor contains the following T-SQL commands:

```
BACKUP DATABASE [MIKITA_BITKIN] TO DISK = 'D:\Study\DB\lab1\mikita_bitkin.bak' WITH INIT  
GO  
  
USE master  
GO  
  
DROP DATABASE [MIKITA_BITKIN]  
GO
```

The messages pane shows the following output:

```
Processed 392 pages for database 'MIKITA_BITKIN', file 'MIKITA_BITKIN' on file 1.  
Processed 2 pages for database 'MIKITA_BITKIN', file 'MIKITA_BITKIN_log' on file 1.  
BACKUP DATABASE successfully processed 394 pages in 0.096 seconds (32.023 MB/sec).  
  
Completion time: 2020-09-30T20:15:48.1573335+03:00
```

- Удаление базы

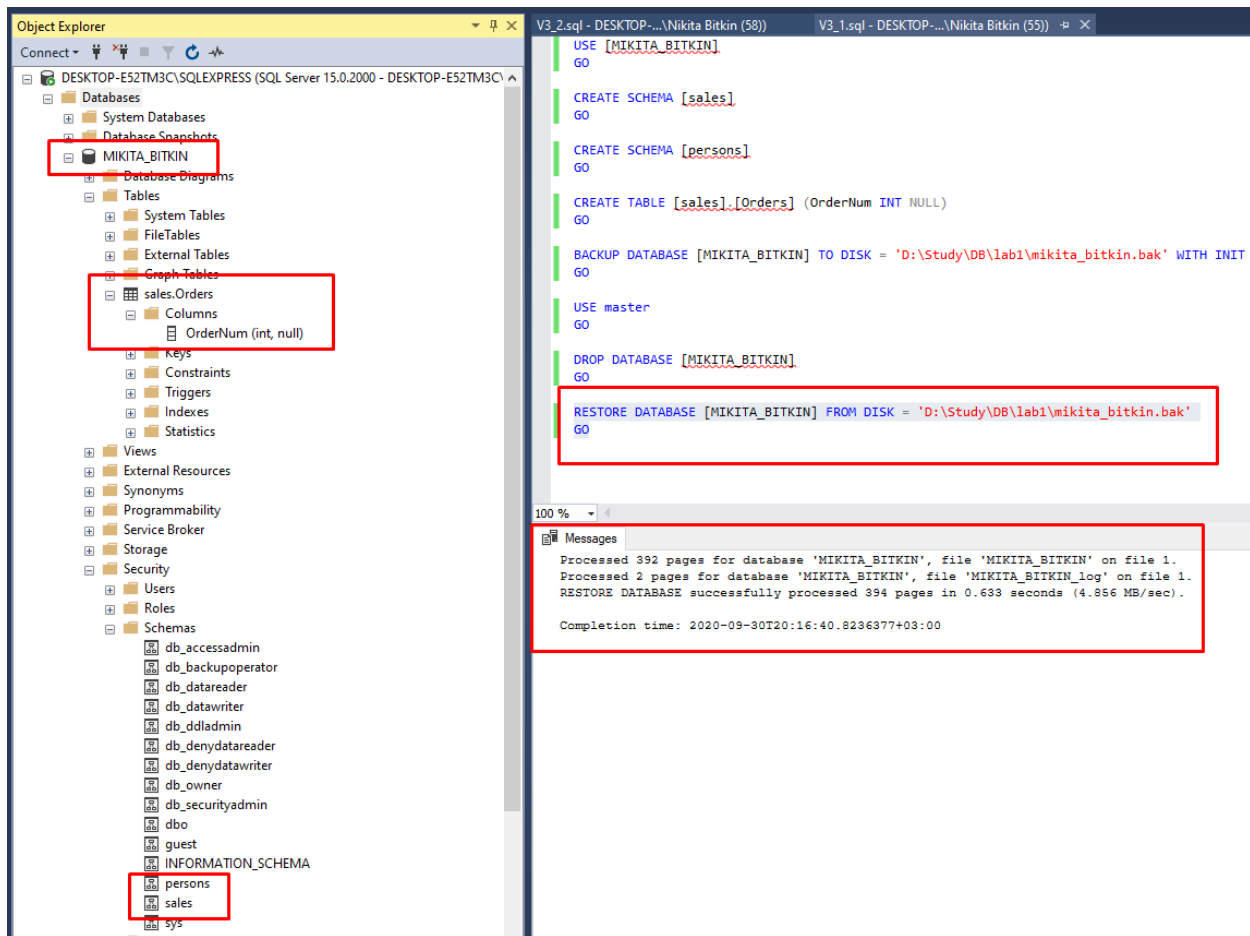
The screenshot shows a SQL Server Enterprise Manager window with a query editor and a messages pane. The query editor contains the following T-SQL commands:

```
USE [MIKITA_BITKIN]  
GO  
  
CREATE SCHEMA [sales]  
GO  
  
CREATE SCHEMA [persons]  
GO  
  
CREATE TABLE [sales].[Orders] (OrderNum INT NULL)  
GO  
  
BACKUP DATABASE [MIKITA_BITKIN] TO DISK = 'D:\Study\DB\lab1\mikita_bitkin.bak' WITH INIT  
GO  
  
USE master  
GO  
  
DROP DATABASE [MIKITA_BITKIN]  
GO  
  
RESTORE DATABASE [MIKITA_BITKIN] FROM DISK = 'D:\Study\DB\lab1\mikita_bitkin.bak'  
GO
```

The messages pane shows the following output:

```
Commands completed successfully.  
  
Completion time: 2020-09-30T20:16:12.8158975+03:00
```

- Восстановление бэкапа



Задание 1.2. Вариант 3.

- Восстановление бэкапа

The screenshot shows the SQL Server Enterprise Manager interface on the left, with the 'AdventureWorks' database selected under 'Database Snapshots'. The main window displays a SQL script for restoring a backup. The script includes comments for 'restore backup', 'end restore', 'task 1', and 'task 2'. The 'task 1' section contains a SELECT statement for departments. The 'task 2' section contains a SELECT statement for employees. The 'Messages' pane at the bottom shows the execution progress of the restore operation, indicating it was successful and processed 24178 pages in 4.111 seconds.

```
-- restore backup

USE master
GO

RESTORE DATABASE [AdventureWorks]
FROM DISK = 'D:\Study\DB\lab1\AdventureWorks2012-Full Database Backup.bak'
WITH MOVE 'AdventureWorks2012_Data' TO 'D:\Study\DB\AdventureWorks2012_Data.mdf',
MOVE 'AdventureWorks2012_log' TO 'D:\Study\DB\AdventureWorks_log.ldf';
GO

-- end restore

-- task 1

USE [AdventureWorks]
GO

SELECT [DepartmentID],
FROM [HumanResources].[Department]
WHERE [Name] LIKE 'P%'

-- end task 1

-- task 2

SELECT * FROM [HumanResources].[Employee]
```

Completion time: 2020-09-30T20:26:16.0033314+03:00

Задача 1.2.1.

The screenshot shows a SQL Query window with a SELECT statement for departments. The results pane at the bottom shows a table with three rows of data.

```
SELECT [DepartmentID],
[Name]
FROM [HumanResources].[Department]
WHERE [Name] LIKE 'P%'

-- end task 1

-- task 2

SELECT [BusinessEntityID],
[JobTitle],
[Gender],
[VacationHours],
[SickLeaveHours]
FROM [HumanResources].[Employee]
```

	DepartmentID	Name
1	7	Production
2	8	Production Control
3	5	Purchasing

Задача 1.2.2

```

SELECT [BusinessEntityID],
       [JobTitle],
       [Gender],
       [VacationHours],
       [SickLeaveHours]
FROM [HumanResources].[Employee]
WHERE [VacationHours] BETWEEN 10 AND 13
-- end task 2

-- task 3

```

100 %

	BusinessEntityID	Job Title	Gender	VacationHours	SickLeaveHours
1	57	Production Technician - WC50	M	10	25
2	58	Production Technician - WC50	M	11	25
3	59	Production Technician - WC50	M	12	26
4	60	Production Technician - WC50	M	13	26
5	154	Production Technician - WC20	M	10	25
6	156	Production Technician - WC20	M	11	25
7	157	Production Technician - WC20	F	12	26
8	159	Production Technician - WC20	M	13	26
9	273	Vice President of Sales	M	10	25

Задача 1.2.3

```

SELECT [BusinessEntityID],
       [JobTitle],
       [Gender],
       [BirthDate],
       [HireDate]
FROM [HumanResources].[Employee]
WHERE DAY([HireDate]) = 1 AND MONTH([HireDate]) = 7
ORDER BY [BusinessEntityID]
OFFSET 3 ROWS FETCH NEXT 5 ROWS ONLY
-- end task 3

```

100 %

	BusinessEntityID	Job Title	Gender	BirthDate	HireDate
1	278	Sales Representative	M	1969-03-07	2005-07-01
2	279	Sales Representative	M	1968-02-19	2005-07-01
3	280	Sales Representative	F	1969-01-06	2005-07-01
4	281	Sales Representative	M	1962-04-10	2005-07-01
5	282	Sales Representative	M	1958-01-11	2005-07-01