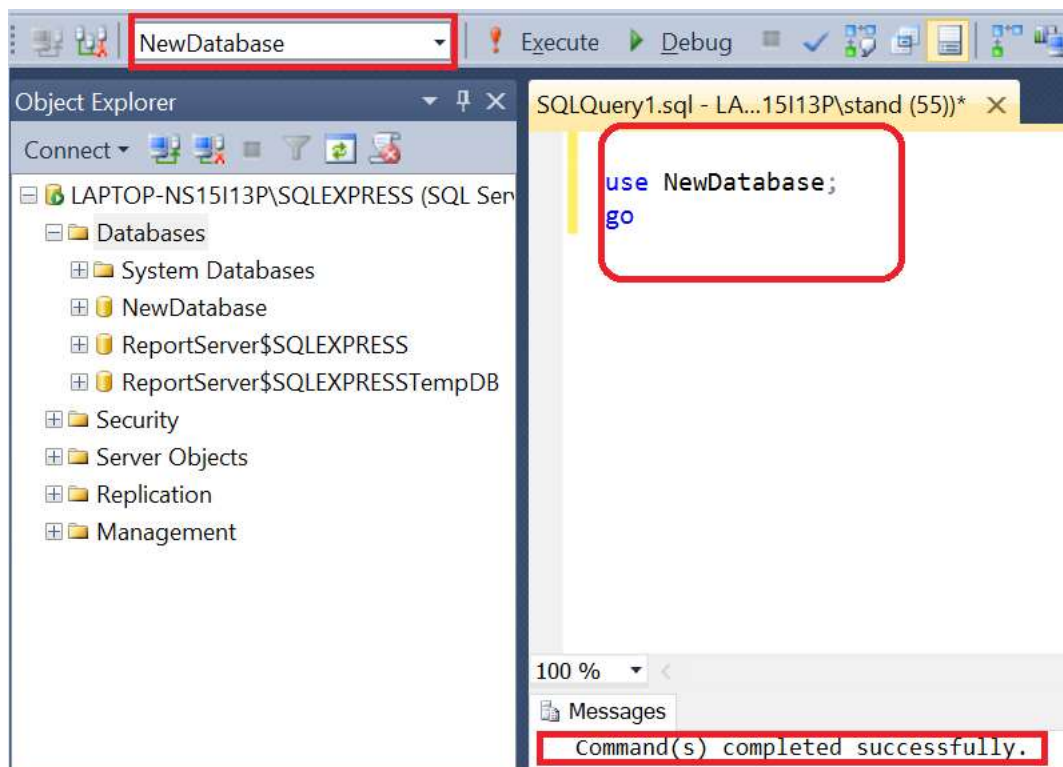
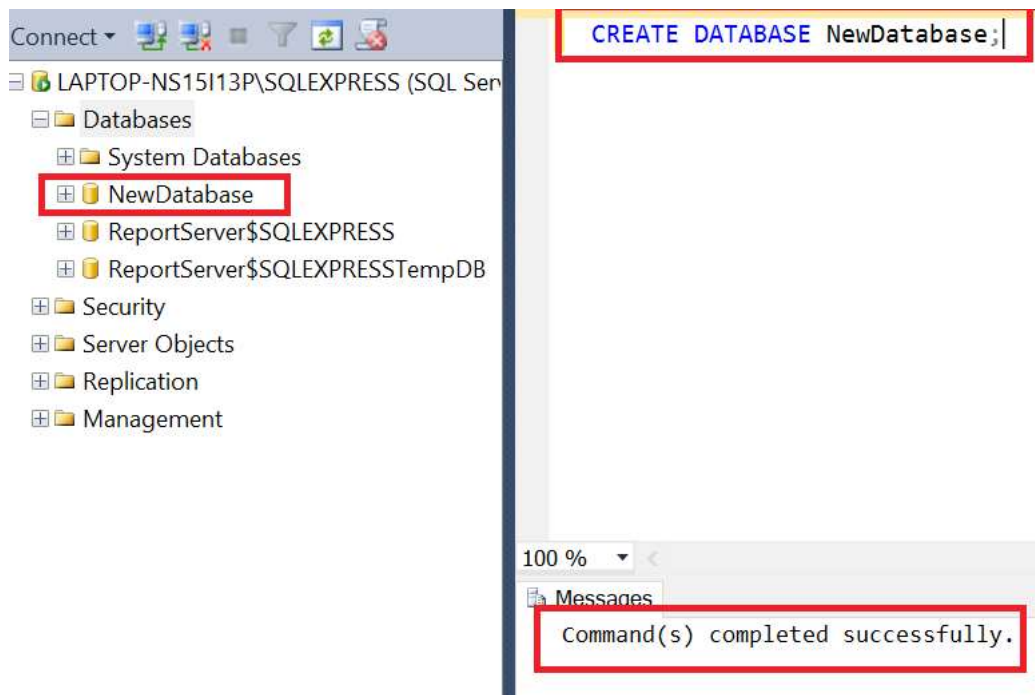


Лабораторная работа 1

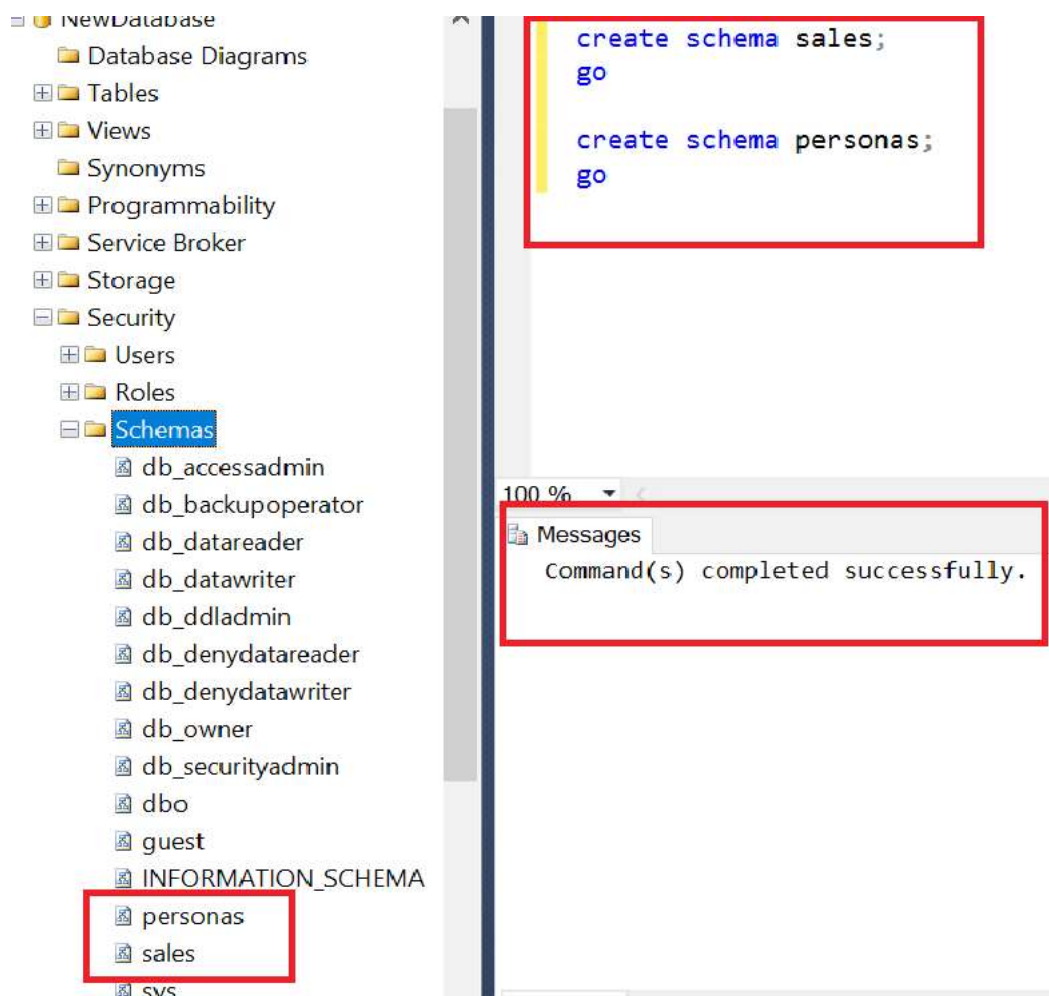
Вариант 9

Задание 1

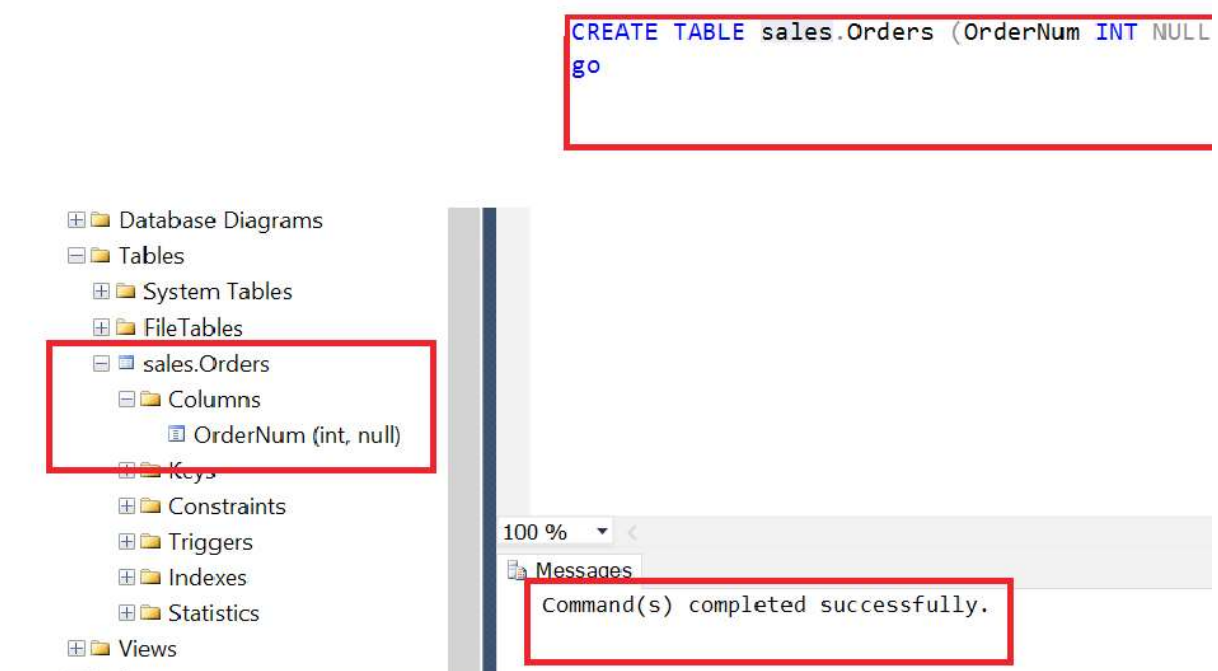
1) Создание бд



2) Создание схемы



3) Создание таблиц



4) Создание бэкапа

```
backup database NewDatabase
to disk = 'N:\MOROZOV_ILYA.bak';
go
```

Messages

Processed 320 pages for database 'NewDatabase', file 'NewDatabase' on file 1.
Processed 6 pages for database 'NewDatabase', file 'NewDatabase_log' on file 1.
RESTORE DATABASE successfully processed 326 pages in 0.021 seconds (121.279 MB/sec).

% <

Messages

Processed 320 pages for database 'NewDatabase', file 'NewDatabase' on file 1.
Processed 6 pages for database 'NewDatabase', file 'NewDatabase_log' on file 1.
BACKUP DATABASE successfully processed 326 pages in 0.027 seconds (94.328 MB/sec).

LAPTOP-NS15I13P\SQLEXPRESS (SQL)

- Databases
 - System Databases
 - NewDatabase
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - sales.Orders
 - Columns
 - OrderNum (int, null)
 - Keys

```
use master;
go

drop database NewDatabase;
go

restore database NewDatabase
from disk = 'N:\MOROZOV_ILYA.bak';
go
```

- db_denydatawriter
- db_owner
- db_securityadmin
- dbo
- guest
- INFORMATION_SCHEMA
- personas
- sales
- sys

Задание 2

1) Вывести на экран сотрудников, которые родились позже 1980 года (но не в 1980 год) и были приняты на работу позже 1-ого апреля 2003 года.

```
select
    empl.BusinessEntityID,
    empl.JobTitle as 'Job Title',
    empl.BirthDate,
    empl.HireDate
from HumanResources.Employee as empl
where year(empl.BirthDate) > 1980 and empl.HireDate > '2003/04/01';
go
```

| Results | | Messages | | |
|---------|------------------|------------------------------|------------|------------|
| | BusinessEntit... | Job Title | BirthDate | HireDate |
| 1 | 13 | Tool Designer | 1983-06-29 | 2005-01-23 |
| 2 | 96 | Production Technician - WC50 | 1984-02-26 | 2003-04-03 |
| 3 | 120 | Production Technician - WC50 | 1981-07-07 | 2003-04-05 |
| 4 | 158 | Production Technician - WC20 | 1981-01-08 | 2003-04-08 |
| 5 | 164 | Production Technician - WC45 | 1982-10-26 | 2003-04-07 |
| 6 | 204 | Production Technician - WC40 | 1982-06-11 | 2003-04-09 |
| 7 | 221 | Control Specialist | 1981-06-26 | 2003-04-07 |

2) Вывести на экран сумму часов отпуска и сумму больничных часов у сотрудников. Назовите столбцы с результатами 'SumVacationHours' и 'SumSickLeaveHours' для отпусков и больничных соответственно.

```
select
    sum(empl.VacationHours) as SumVacationHours,
    sum(empl.SickLeaveHours) as SumSickLeaveHours
from HumanResources.Employee as empl;
go
```

| Results | | Messages | |
|---------|------------------|-------------------|--|
| | SumVacationHo... | SumSickLeaveHo... | |
| 1 | 14678 | 13139 | |

3) Вывести на экран первых трех сотрудников, которых раньше всех остальных приняли на работу.

```
select top 3
    empl.BusinessEntityID,
    empl.JobTitle,
    empl.Gender,
    empl.BirthDate,
    empl.HireDate
from HumanResources.Employee as empl
order by empl.HireDate asc;
go
```

| Results | | Messages | | | |
|---------|------------------|------------------------------|--------|------------|------------|
| | BusinessEntit... | JobTitle | Gen... | BirthDate | HireDate |
| 1 | 28 | Production Technician - WC60 | M | 1976-05-15 | 2000-07-31 |
| 2 | 17 | Marketing Assistant | M | 1981-06-03 | 2001-02-26 |
| 3 | 3 | Engineering Manager | M | 1968-12-13 | 2001-12-12 |