

# Отчет по лабораторной работе №1

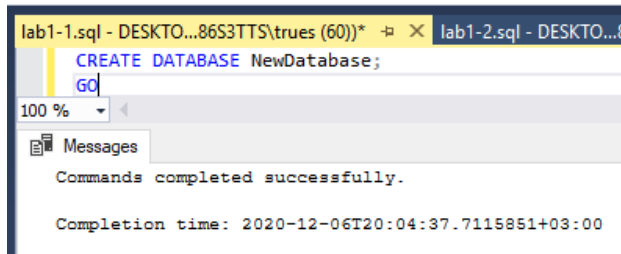
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Вариант 3

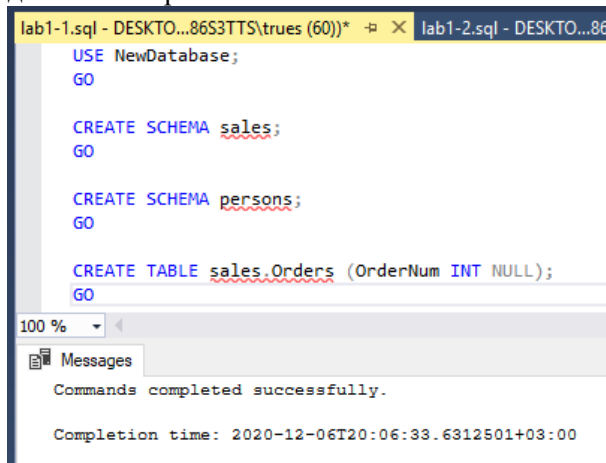
## Задание 1

Написать запрос на создание новой базы данных с именем NewDatabase используя инструкцию CREATE DATABASE:



```
lab1-1.sql - DESKTO...86S3TTS\trues (60))* X lab1-2.sql - DESKTO...86S3TTS\trues (51))
CREATE DATABASE NewDatabase;
GO
100 %
Messages
Commands completed successfully.
Completion time: 2020-12-06T20:04:37.7115851+03:00
```

Выбрать базу данных NewDatabase, создать новую схему sales, создать новую схему persons, создать новую таблицу в схеме sales с именем Orders, содержащей одно поле OrderNum, тип данных которого INT:



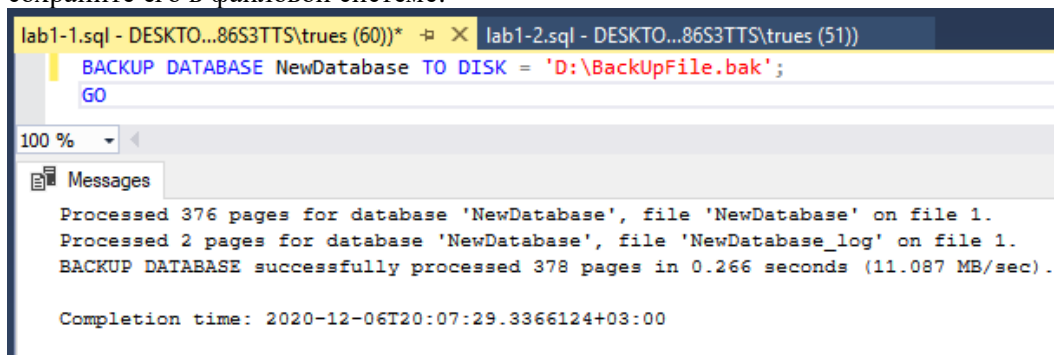
```
lab1-1.sql - DESKTO...86S3TTS\trues (60))* X lab1-2.sql - DESKTO...86S3TTS\trues (51))
USE NewDatabase;
GO

CREATE SCHEMA sales;
GO

CREATE SCHEMA persons;
GO

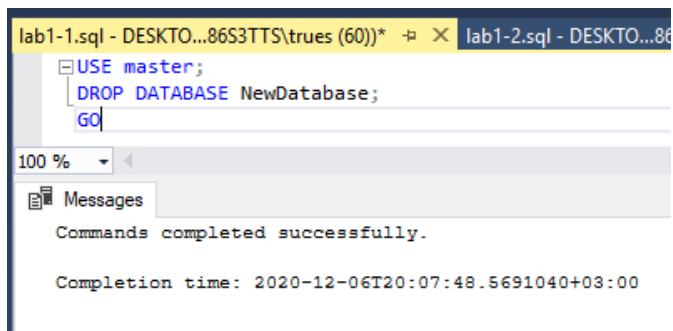
CREATE TABLE sales.Orders (OrderNum INT NULL);
GO
100 %
Messages
Commands completed successfully.
Completion time: 2020-12-06T20:06:33.6312501+03:00
```

Создать бэкап базы данных NewDatabase используя инструкцию BACKUP DATABASE и сохраните его в файловой системе:



```
lab1-1.sql - DESKTO...86S3TTS\trues (60))* X lab1-2.sql - DESKTO...86S3TTS\trues (51))
BACKUP DATABASE NewDatabase TO DISK = 'D:\BackUpFile.bak';
GO
100 %
Messages
Processed 376 pages for database 'NewDatabase', file 'NewDatabase' on file 1.
Processed 2 pages for database 'NewDatabase', file 'NewDatabase_log' on file 1.
BACKUP DATABASE successfully processed 378 pages in 0.266 seconds (11.087 MB/sec) .
Completion time: 2020-12-06T20:07:29.3366124+03:00
```

Удалить базу данных используя инструкцию DROP DATABASE:



The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'lab1-1.sql - DESKTO...86S3TTS\trues (60))' and 'lab1-2.sql - DESKTO...86S3TTS\trues (51))'. The active tab contains the following SQL commands: `USE master;`, `DROP DATABASE NewDatabase;`, and `GO`. Below the command window, the 'Messages' pane shows the output: 'Commands completed successfully.' and 'Completion time: 2020-12-06T20:07:48.5691040+03:00'.

```
USE master;
DROP DATABASE NewDatabase;
GO
```

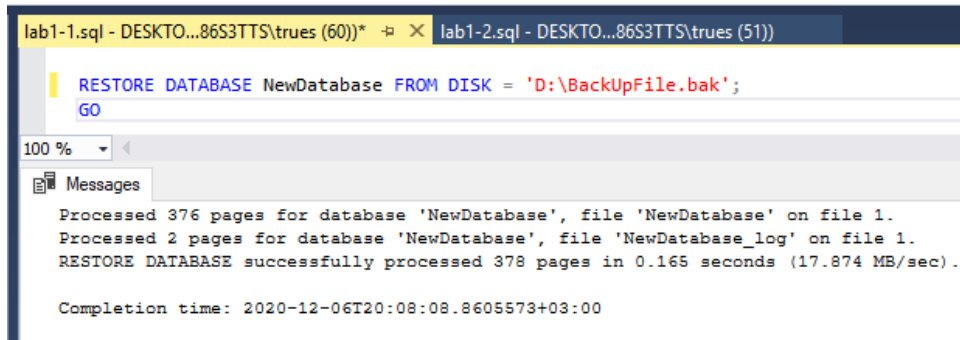
100 %

Messages

Commands completed successfully.

Completion time: 2020-12-06T20:07:48.5691040+03:00

Восстановить базу данных NewDatabase из сохраненного бэкапа используя инструкцию RESTORE DATABASE:



The screenshot shows the same SQL Server Enterprise Manager window. The active tab now contains the following SQL commands: `RESTORE DATABASE NewDatabase FROM DISK = 'D:\BackUpFile.bak';` and `GO`. The 'Messages' pane shows the output: 'Processed 376 pages for database 'NewDatabase', file 'NewDatabase' on file 1.', 'Processed 2 pages for database 'NewDatabase', file 'NewDatabase\_log' on file 1.', 'RESTORE DATABASE successfully processed 378 pages in 0.165 seconds (17.874 MB/sec).', and 'Completion time: 2020-12-06T20:08:08.8605573+03:00'.

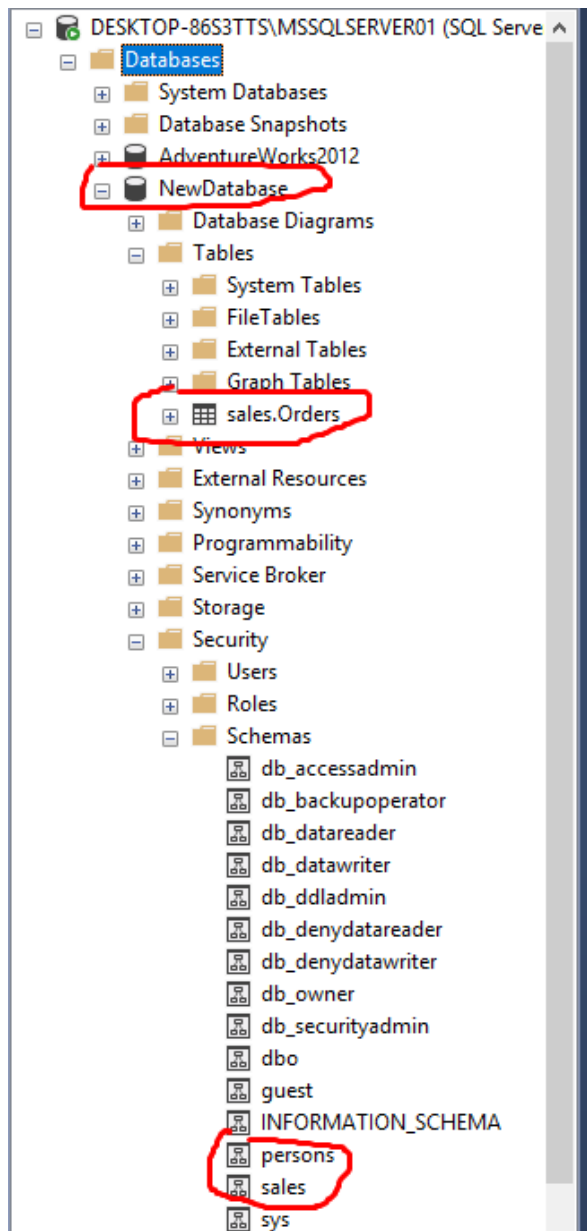
```
RESTORE DATABASE NewDatabase FROM DISK = 'D:\BackUpFile.bak';
GO
```

100 %

Messages

Processed 376 pages for database 'NewDatabase', file 'NewDatabase' on file 1.  
Processed 2 pages for database 'NewDatabase', file 'NewDatabase\_log' on file 1.  
RESTORE DATABASE successfully processed 378 pages in 0.165 seconds (17.874 MB/sec).

Completion time: 2020-12-06T20:08:08.8605573+03:00



## Задание 2

Вывести на экран список отделов, названия которых начинаются на букву 'P':

lab1-1.sql - DESKTO...86S3TTS\trues (60))\* lab1

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

100 %

Results Messages

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

Вывести на экран список сотрудников, у которых осталось больше 10, но меньше 13 часов отпуска (включая эти значения). Выполнить не используя операторы <, >, =:

lab1-1.sql - DESKTO...86S3TTS\trues (60))\* lab1-2.sql - DESKTO...86S3TTS\trues (51))\*

```
SELECT BusinessEntityID, JobTitle, Gender, VacationHours, SickLeaveHours
FROM HumanResources.Employee
WHERE VacationHours BETWEEN 10 AND 13;
```

100 %

Results Messages

	BusinessEntityID	JobTitle	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

Вывести на экран сотрудников, которых приняли на работу 1-ого в.кз (любого года).

Отсортировать результат по BusinessEntityID по возрастанию. Вывести на экран только 5 строк, пропустив первые 3:

lab1-1.sql - DESKTO...86S3TTS\trues (60))\* lab1-2.sql - DESKTO...86S3TTS\trues (51)

```
SELECT BusinessEntityID, JobTitle, Gender, BirthDate, HireDate
FROM HumanResources.Employee
WHERE HireDate LIKE '%-07-01'
ORDER BY BusinessEntityID
OFFSET 3 ROWS
FETCH NEXT 5 ROWS ONLY;
```

100 %

Results Messages

	BusinessEntit...	JobTitle	Gen...	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