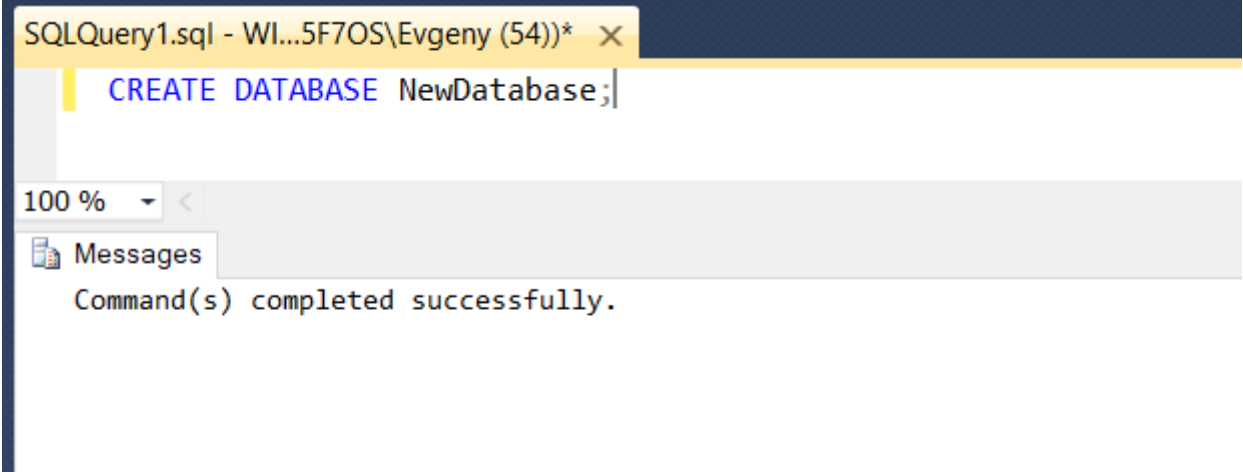


Отчет ЛР 1

Тимохов Евгений, 751001, вариант 6

Задание 1

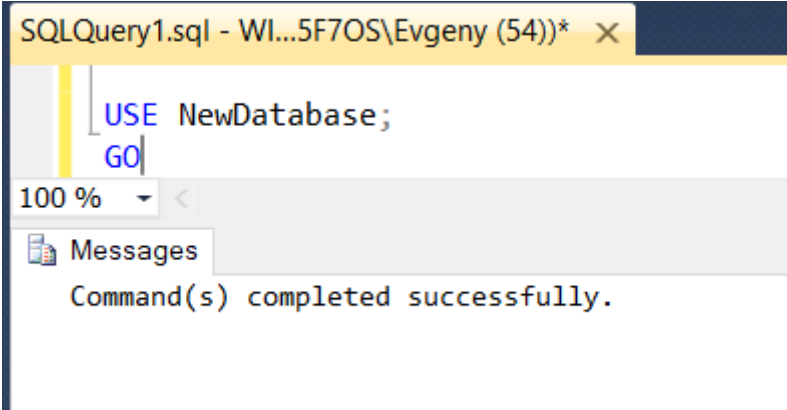
Напишите запрос на создание новой базы данных с именем NewDatabase используя инструкцию CREATE DATABASE



The screenshot shows a SQL query window titled "SQLQuery1.sql - WI...5F7OS\Evgeny (54))*" with a dark blue header. The query text is "CREATE DATABASE NewDatabase;". Below the query window, a "Messages" pane shows the status "Command(s) completed successfully." The zoom level is set to "100 %".

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* ×  
  
CREATE DATABASE NewDatabase;  
  
100 % <  
Messages  
Command(s) completed successfully.
```

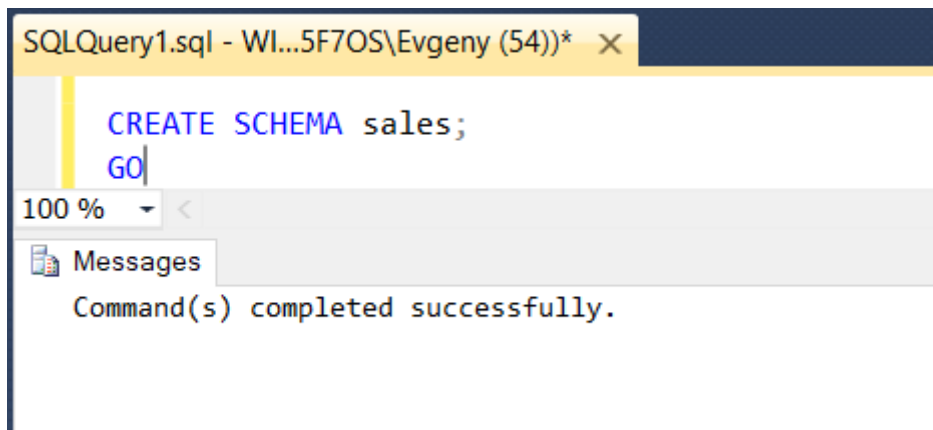
Выбрать базу данных NewDatabase



The screenshot shows a SQL query window titled "SQLQuery1.sql - WI...5F7OS\Evgeny (54))*" with a dark blue header. The query text is "USE NewDatabase; GO". Below the query window, a "Messages" pane shows the status "Command(s) completed successfully." The zoom level is set to "100 %".

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* ×  
  
USE NewDatabase;  
GO  
  
100 % <  
Messages  
Command(s) completed successfully.
```

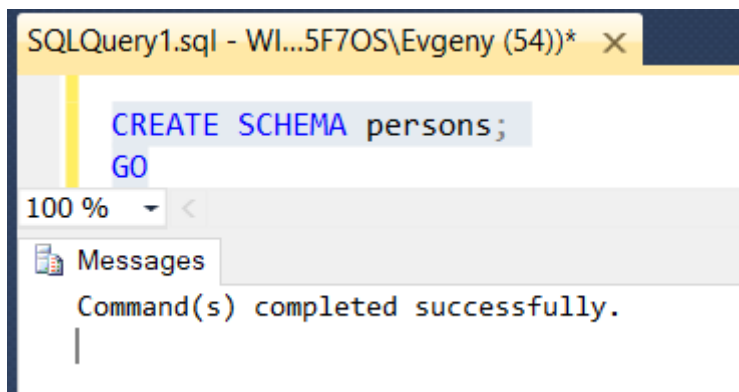
Создать новую схему sales



The screenshot shows a SQL query window titled "SQLQuery1.sql - WI...5F7OS\Evgeny (54))*". The query text is "CREATE SCHEMA sales;" followed by "GO" on a new line. Below the query, a "Messages" pane shows the message "Command(s) completed successfully." The zoom level is set to 100%.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* ×  
  
CREATE SCHEMA sales;  
GO  
  
100 % <  
Messages  
Command(s) completed successfully.
```

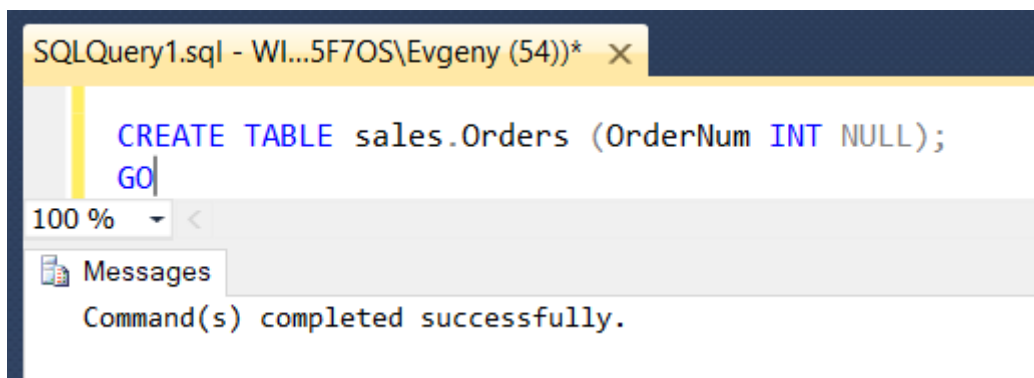
Создать новую схему persons



The screenshot shows a SQL query window titled "SQLQuery1.sql - WI...5F7OS\Evgeny (54))*". The query text is "CREATE SCHEMA persons;" followed by "GO" on a new line. Below the query, a "Messages" pane shows the message "Command(s) completed successfully." The zoom level is set to 100%.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* ×  
  
CREATE SCHEMA persons;  
GO  
  
100 % <  
Messages  
Command(s) completed successfully.
```

Создайте новую таблицу в схеме sales с именем Orders, содержащей одно поле OrderNum, тип данных которого INT



The screenshot shows a SQL query window titled "SQLQuery1.sql - WI...5F7OS\Evgeny (54))*". The query text is "CREATE TABLE sales.Orders (OrderNum INT NULL);" followed by "GO" on a new line. Below the query, a "Messages" pane shows the message "Command(s) completed successfully." The zoom level is set to 100%.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* ×  
  
CREATE TABLE sales.Orders (OrderNum INT NULL);  
GO  
  
100 % <  
Messages  
Command(s) completed successfully.
```

Создайте бэкап базы данных NewDatabase используя инструкцию BACKUP DATABASE и сохраните его в файловой системе.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* X
GO
BACKUP DATABASE NewDatabase TO DISK = 'D:\EVGENY_TIMOKHOV.bak';
GO
```

100 % <

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 0.075 seconds (33.958 MB/sec).

Удалите базу данных используя инструкцию DROP DATABASE.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* X
USE MASTER;
DROP DATABASE NewDatabase;
GO
```

100 % <

Messages

Command(s) completed successfully.

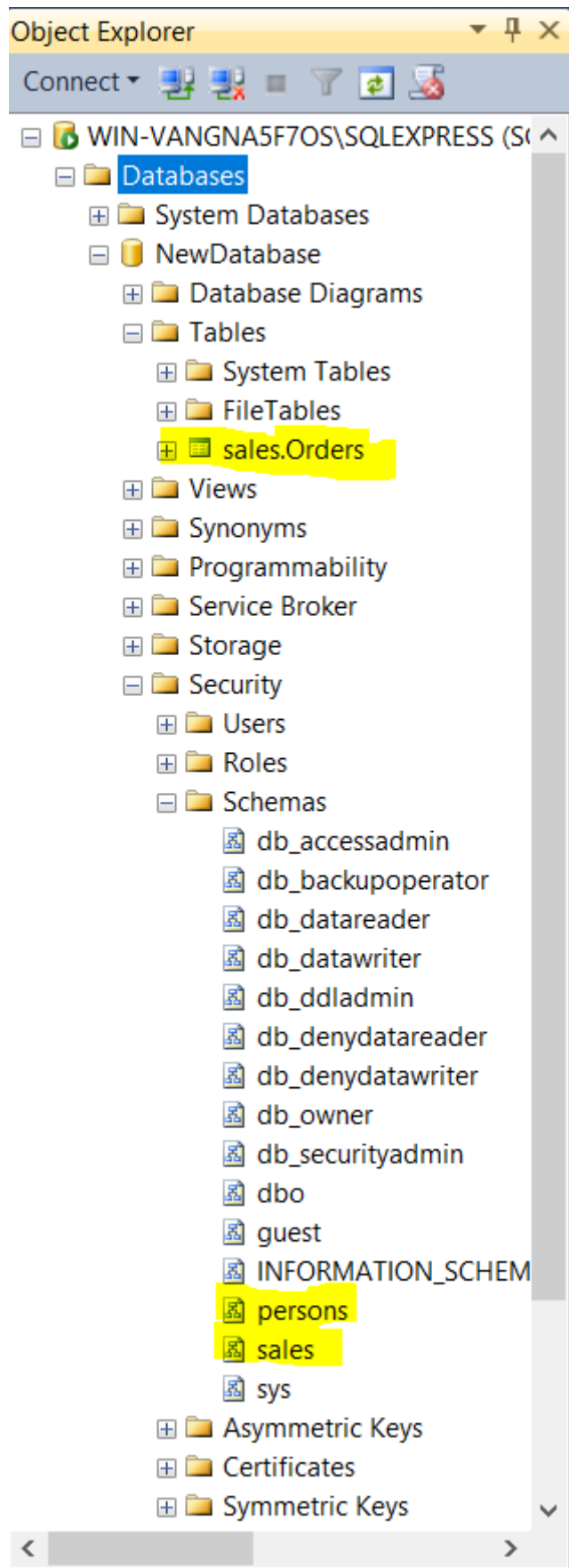
Восстановите базу данных NewDatabase из сохраненного бэкапа используя инструкцию RESTORE DATABASE.

```
SQLQuery1.sql - WI...5F7OS\Evgeny (54))* X
RESTORE DATABASE NewDatabase FROM DISK = 'D:\EVGENY_TIMOKHOV.bak';
GO
```

100 % <

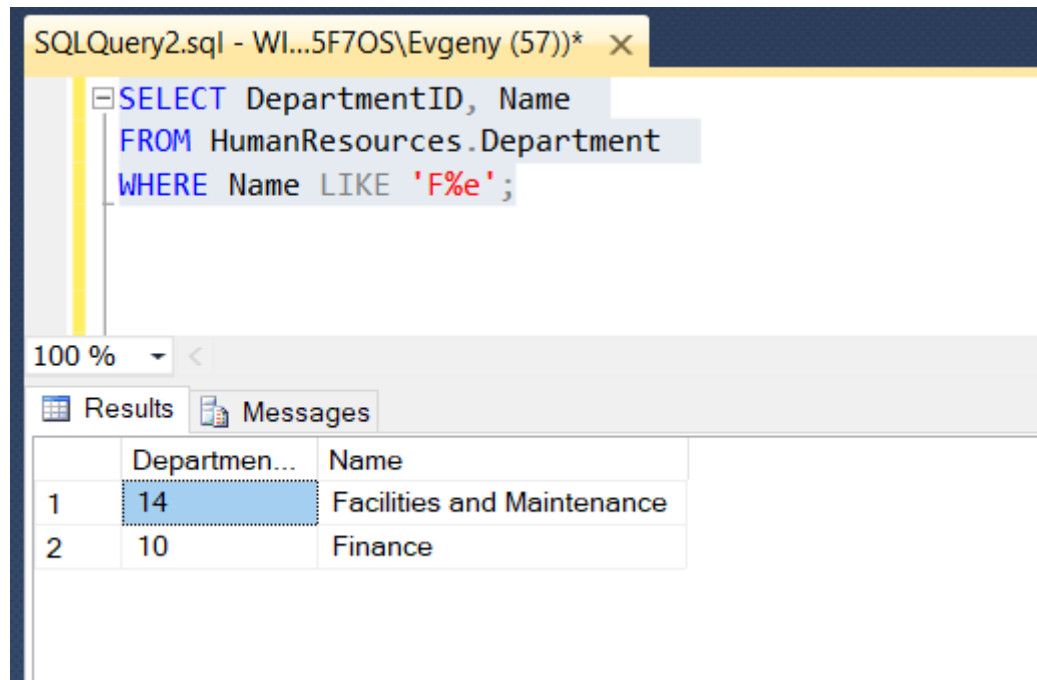
Messages

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 0.016 seconds (159.179 MB/sec).



Задание 2

Вывести на экран список отделов, названия которых начинаются на букву 'F' и заканчиваются на букву 'e'.



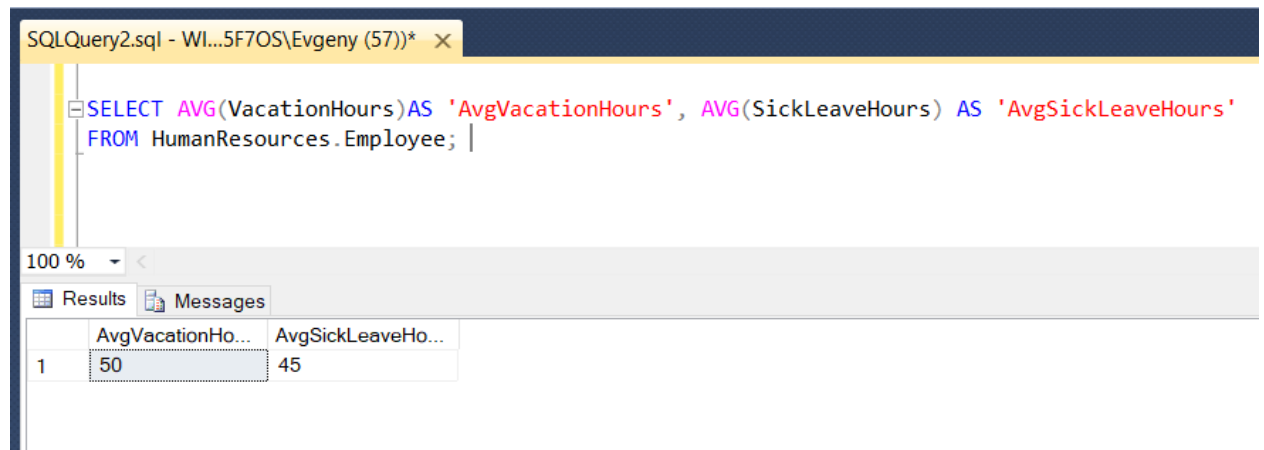
The screenshot shows a SQL query window titled "SQLQuery2.sql - WL...5F7OS\Evgeny (57))*". The query is:

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

Below the query, the "Results" tab is active, displaying a table with two columns: "Departmen..." and "Name". The table contains two rows:

	Departmen...	Name
1	14	Facilities and Maintenance
2	10	Finance

Вывести на экран среднее количество часов отпуска и среднее количество больничных часов у сотрудников. Назовите столбцы с результатами 'AvgVacationHours' и 'AvgSickLeaveHours' для отпусков и больничных соответственно.



The screenshot shows a SQL query window titled "SQLQuery2.sql - WL...5F7OS\Evgeny (57))*". The query is:

```
SELECT AVG(VacationHours) AS 'AvgVacationHours', AVG(SickLeaveHours) AS 'AvgSickLeaveHours'
FROM HumanResources.Employee;
```

Below the query, the "Results" tab is active, displaying a table with two columns: "AvgVacationHo..." and "AvgSickLeaveHo...". The table contains one row:

	AvgVacationHo...	AvgSickLeaveHo...
1	50	45

Вывести на экран сотрудников, которым больше 65-ти лет на настоящий момент. Вывести также количество лет, прошедших с момента трудоустройства, в столбце с именем 'YearsWorked'.

SQLQuery2.sql - WI...5F70S\Evgeny (57))* x

```
SELECT BusinessEntityID, JobTitle, Gender, DATEDIFF(year, HireDate, GETDATE()) AS YearsWorked
FROM HumanResources.Employee
WHERE DATEDIFF(year, BirthDate, GETDATE()) > 65;
```

100 %

Results Messages

	BusinessEntit...	JobTitle	Gen...	YearsWork...
1	5	Design Engineer	F	18
2	6	Design Engineer	M	18
3	12	Tool Designer	M	18
4	27	Production Supervisor - WC60	F	18
5	40	Production Supervisor - WC60	F	18
6	48	Production Technician - WC10	F	18
7	49	Production Technician - WC10	M	18
8	50	Production Technician - WC10	M	18
9	51	Production Technician - WC10	M	18
10	52	Production Technician - WC10	F	18
11	53	Production Technician - WC10	F	18
12	55	Production Supervisor - WC50	M	18
13	62	Production Supervisor - WC60	M	18
14	63	Production Technician - WC60	M	16
15	84	Production Technician - WC40	M	16
16	140	Production Technician - WC20	M	16
17	231	Janitor	F	16
18	256	Buyer	M	16
19	274	North American Sales Manager	M	15
20	287	European Sales Manager	F	14