Министерство образования Республики Беларусь

Учреждение образования «БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ»

Факультет компьютерного проектирования Кафедра экономической информатики

ОТЧЁТ

Лабораторная работа №4.2

«Выборка из одной таблицы. Выборка с добавлением.

Выбор уникальных строк. Извлечение диапазона строк. Сортировка.»

Проверил: Мельников Дмитрий Васильевич

Выполнил: Шмат Илья Викторович

Студент группы № 014301

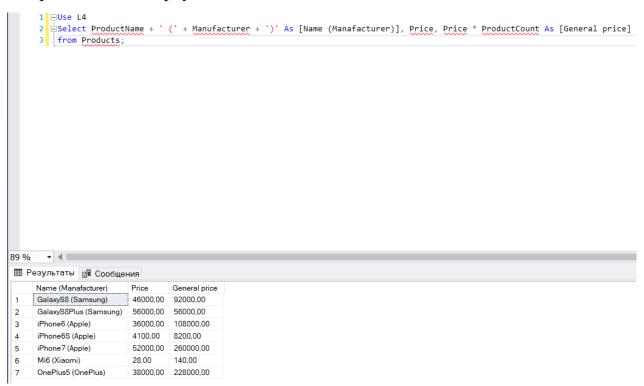
1. Создать таблицу Products.



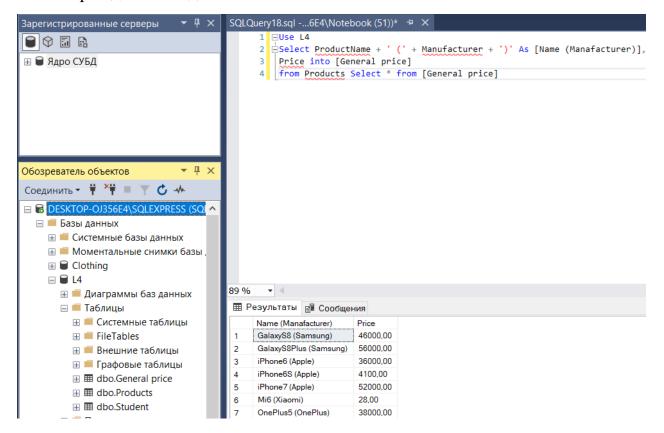
2. Заполнить данными таблицу.



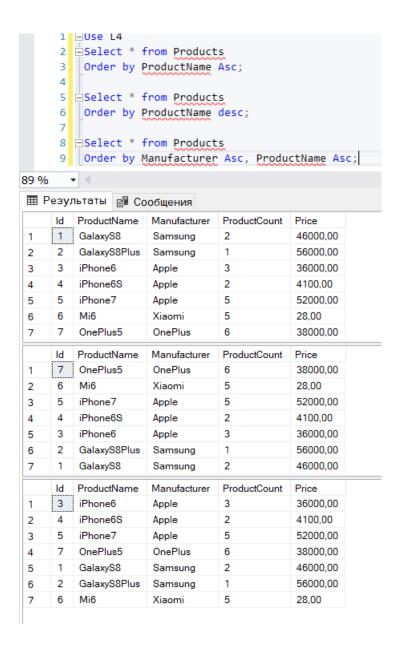
3. Произвести выборку данных по 3-м столбцам.



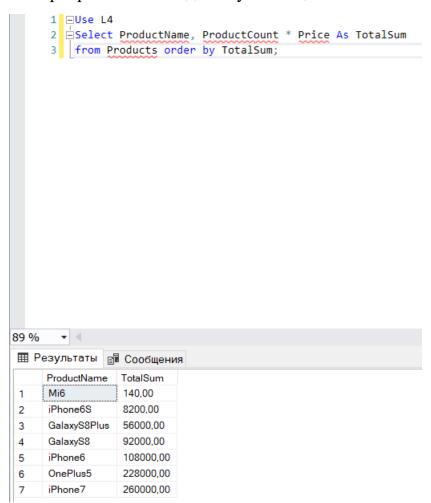
5. Выборка данных с добавлением.



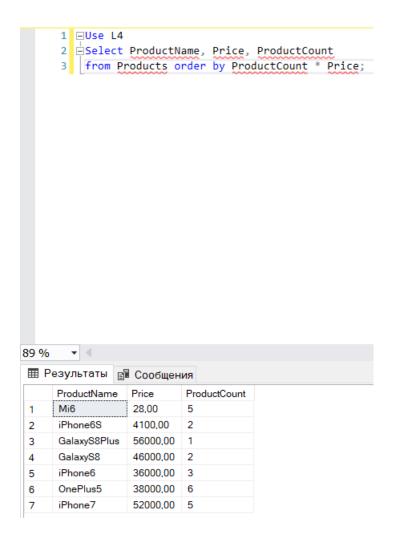
6. Сортировка по возрастанию, убыванию, по столбцам Manufacturer и ProductName.



7. Сортировка по псевдониму столбца



8. Использование сложного выражения в качестве критерия сортировки



Самостоятельная работа:

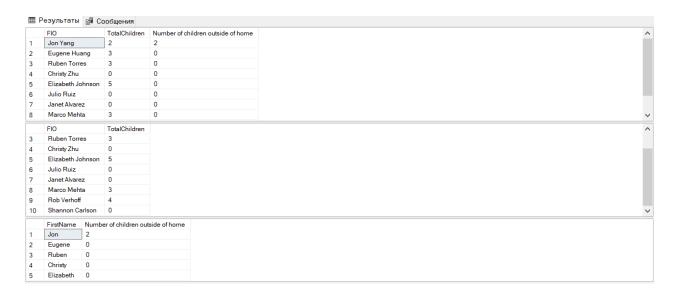
Скрипт выполнения самостоятельной работы:

```
Use AdventureWorksDW2019
Select Top 10 FirstName + ' ' + LastName As FIO, TotalChildren, TotalChildren -
NumberChildrenAtHome
As [Number of children outside of home]
From DimCustomer;
Select Top 10 FirstName + ' ' + LastName As FIO, TotalChildren
into ChildrenInfo
From DimCustomer;
Select * from ChildrenInfo
Select Top 10 FirstName, TotalChildren - NumberChildrenAtHome
As [Number of children outside of home]
from DimCustomer
Order by [Number of children outside of home]
Select Top 10 * from DimCustomer
Order by LastName Asc
Select Top 10 * from DimCustomer
Order by LastName Desc
Select Top 10 * from DimCustomer
Order by TotalChildren Asc, LastName Asc
Select Top 10 LastName, TotalChildren, NumberChildrenAtHome
From DimCustomer
Order by TotalChildren - NumberChildrenAtHome
```

Выполнение:

```
⊟Use AdventureWorksDW2019
         | As [Number of children outside of home]
          From DimCustomer;
      6 ⊟Select Top 10 FirstName + ' ' + LastName As FIO, TotalChildren
         into ChildrenInfo
         From DimCustomer;
         Select * from ChildrenInfo
     11
        ⊡Select Top 10 FirstName, TotalChildren - NumberChildrenAtHome
As [Number of children outside of home]
     13
         Order by [Number of children outside of home]
     17 Select Top 10 * from DimCustomer
     18 Order by LastName Asc
     20 Select Top 10 * from DimCustomer
    21 Order by LastName Desc
89 %
■ Результаты В Сообщения
9 2/829 139 А₩∪∪∪2/829
                                                                                                                      NULL F
                                                                            ∠ımmer...
                                                                                                                                    cnristyu@aqventure-works.c...
    28630
                 66
                              AW00028630
                                                NULL Jack
                                                                                                1970-11-09 S
                                                                                                                      NULL M
                                                                                                                                    jack24@adventure-works.com 4000 ↓
 <
                                                                                                                                                              >
     CustomerKey GeographyKey CustomerAlternateKey
                                                Title
                                                      FirstName
                                                                MiddleName LastName NameStyle
                                                                                               BirthDate
                                                                                                          MaritalStatus
                                                                                                                     Suffix Gender EmailAddress
                                                                                                                                                              Yea ^
                                                                                                1984-05-12 S
2
                              AW00011931
                                                NULL Marcus
                                                                                                                      NULL M
     11931
                                                                            Adams
                                                                                      0
                                                                                                                                    marcus34@adventure-works.c...
                                                                                                                                                              701
     11971
                              AW00011971
                                                NULL Amanda
                                                                                                1979-03-03 S
                                                                                                                      NULL F
                                                                                                                                    amanda58@adventure-works....
     14581
                 547
                              AW00014581
                                                NULL Kevin
                                                                            Adams
                                                                                                1978-10-17 S
                                                                                                                      NULL M
                                                                                                                                    kevin54@adventure-works.com
                                                                                                                                                              401
5
     14640
                 51
                              AW00014640
                                                NULL Macken...
                                                                            Adams
                                                                                      0
                                                                                                1973-03-03 S
                                                                                                                      NULL F
                                                                                                                                    mackenzie36@adventure-wor...
                                                                                                                                                              501
     15715
                              AW00015715
                                                                                                1980-12-17 S
                                                                                                                                    isabella46@adventure-works.c...
                                                NULL Isabella
                                                                            Adams
                                                                                                                      NULL F
 6
                                                                                                                                    andrea37@adventure-works.c...
     16845
                 383
                              AW00016845
                                                NULL Andrea
                                                                            Adams
                                                                                                1975-09-12 S
                                                                                                                      NULL F
 8
     16854
                 385
                              AW00016854
                                                NULL Seth
                                                                            Adams
                                                                                                1980-02-20 M
1972-04-04 S
                                                                                                                      NULL M
                                                                                                                                    seth33@adventure-works.com
                                                                                                                                                              170
                              AW00016977
     16977
                 316
                                                NULL
                                                      Noah
                                                                В
                                                                                      0
                                                                                                                      NULL M
                                                                                                                                    noah41@adventure-works.com
 9
                                                                            Adams
                                                                                                                                                             601 🗸
<
     LastName TotalChildren NumberChildrenAtHome
```

Результаты:



	CustomerKey	GeographyKe	/ CustomerAlternateKey	Title	FirstName	MiddleName	LastName	NameStyle	BirthDate	MaritalStatus	Suffix	Gender	EmailAddress	1 ^
3	11659	66	AW00011659	NULL	Miguel	NULL	Adams	0	1974-10-20	S	NULL	М	miguel32@adventure-works.com	1 (
4	11869	71	AW00011869	NULL	Kaitlyn	Α	Adams	0	1984-05-01	S	NULL	F	kaitlyn13@adventure-works.com	
5	11931	352	AW00011931	NULL	Marcus	М	Adams	0	1984-05-12	S	NULL	М	marcus34@adventure-works.com	n i
6	11971	322	AW00011971	NULL	Amanda	P	Adams	0	1979-03-03	S	NULL	F	amanda58@adventure-works.co	m :
7	12154	71	AW00012154	NULL	Hailey	М	Adams	0	1967-07-21	S	NULL	F	hailey55@adventure-works.com	:
В	12663	223	AW00012663	NULL	Morgan	NULL	Adams	0	1952-12-21	М	NULL	F	morgan12@adventure-works.com	n 📒
9	12889	547	AW00012889	NULL	James	NULL	Adams	0	1977-05-26	М	NULL	М	james66@adventure-works.com	-
10	12901	552	AW00012901	NULL	Robert	Q	Adams	0	1974-08-12	М	NULL	М	robert57@adventure-works.com	! \
(>
	CustomerKey	GeographyKe	CustomerAlternateKey	Title	FirstName	MiddleName	LastName	NameStyle	BirthDate	MaritalStatus	Suffix	Gender	EmailAddress	Yearl ^
3	17228	32	AW00017228	NULL	Krystal	NULL	Zimmer	0	1981-05-20	S	NULL	F	krystal10@adventure-works	6000
4	18197	3	AW00018197	NULL	Jenny	NULL	Zimmer	0	1980-01-10	М	NULL	F	jenny30@adventure-works.c	1100
5	22192	627	AW00022192	NULL	Henry	NULL	Zimmer	0	1982-03-11	S	NULL	М	henry1@adventure-works.com	6000
6	23325	34	AW00023325	NULL	Tiffany	E	Zimmer	0	1956-08-21	М	NULL	F	tiffany20@adventure-works.c	2000
7	26754	36	AW00026754	NULL	Candice	J	Zimmer	0	1966-04-01	S	NULL	F	candice3@adventure-works	6000
В	27214	300	AW00027214	NULL	Bianca	Α	Zimmer	0	1961-12-01	М	NULL	F	bianca0@adventure-works.c	2000
9	27825	155	AW00027825	NULL	Christy	Α	Zimmer	0	1984-05-02	S	NULL	F	christy0@adventure-works.c	3000
10	28630	66	AW00028630	NULL	Jack	NULL	Zimmer	0	1970-11-09	S	NULL	М	jack24@adventure-works.com	4000 🗸
<														>
	CustomerKey	GeographyKe	CustomerAlternateKey	Title	FirstName	MiddleName	LastName	NameStyle	BirthDate	MaritalStatus	Suffix	Gender	EmailAddress	Yea ^
2	11931	352	AW00011931	NULL	Marcus	М	Adams	0	1984-05-12	S	NULL	М	marcus34@adventure-works.c	701
3	11971	322	AW00011971	NULL	Amanda	Р	Adams	0	1979-03-03	S	NULL	F	amanda58@adventure-works	801
4	14581	547	AW00014581	NULL	Kevin	М	Adams	0	1978-10-17	S	NULL	М	kevin54@adventure-works.com	401
5	14640	51	AW00014640	NULL	Macken	Α	Adams	0	1973-03-03	S	NULL	F	mackenzie36@adventure-wor	50(
6	15715	27	AW00015715	NULL	Isabella	NULL	Adams	0	1980-12-17	S	NULL	F	isabella46@adventure-works.c	601
7	16845	383	AW00016845	NULL	Andrea	М	Adams	0	1975-09-12	S	NULL	F	andrea37@adventure-works.c	170
В	16854	385	AW00016854	NULL	Seth	L	Adams	0	1980-02-20	М	NULL	М	seth33@adventure-works.com	17(
9	16977	316	AW00016977	NULL	Noah	В	Adams	0	1972-04-04	S	NULL	М	noah41@adventure-works.com	601 🗸
(>
	LastName	TotalChildren I	NumberChildrenAtHome											-
3	Torres	3	3											
4	Zhu	0	0											
5	Johnson	5	5											
6	Ruiz	0	0											