**Лабораторная работа №8**

**Встроенные функции**

[1. Функции для работы со строками 2](#_Toc132914654)

[2. Функции для работы с числами 4](#_Toc132914655)

[3. Функции по работе с датами и временем. 7](#_Toc132914656)

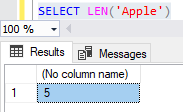
[4. Преобразование данных 10](#_Toc132914657)

[5. Функции CASE и IIF 12](#_Toc132914658)

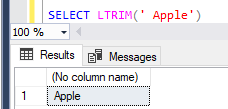
[6. Функции NEWID, ISNULL и COALESCE 13](#_Toc132914659)

# Функции для работы со строками

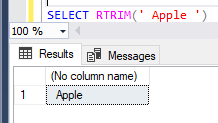
* LEN



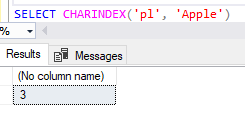
* LTRIM



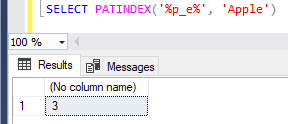
* RTRIM



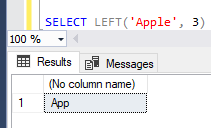
* CHARINDEX



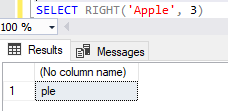
* PATINDEX



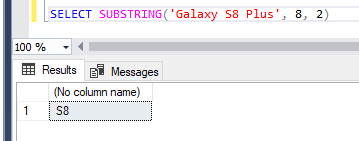
* LEFT



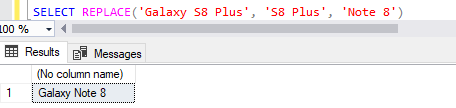
* RIGHT



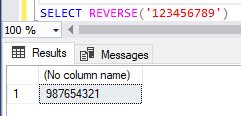
* SUBSTRING



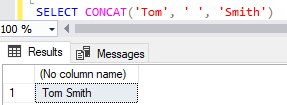
* REPLACE



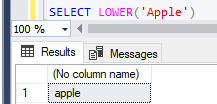
* REVERSE



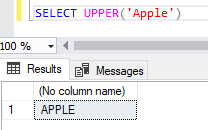
* CONCAT



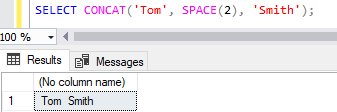
* LOWER



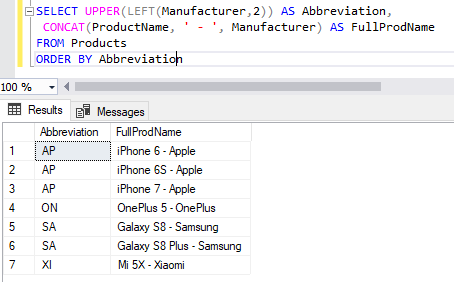
* UPPER



* SPACE

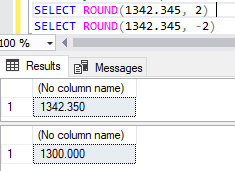


при извлечении данных применим строковые функции:

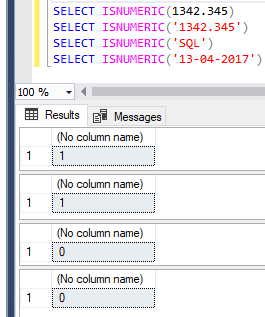


# Функции для работы с числами

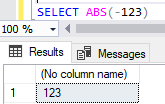
* ROUND



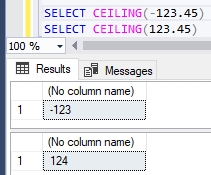
* ISNUMERIC



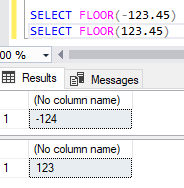
* ABS



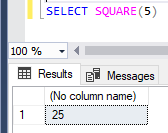
* CEILING



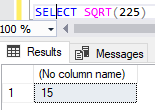
* FLOOR



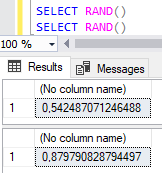
* SQUARE



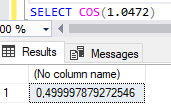
* SQRT



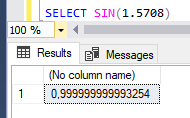
* RAND



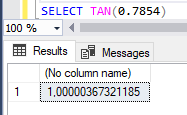
* COS



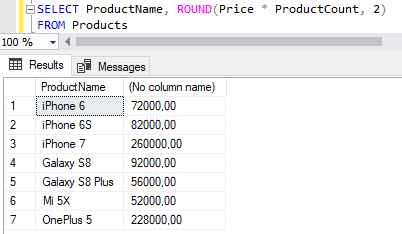
* SIN



* TAN

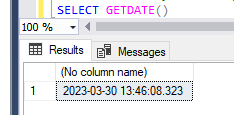


Округлим произведение цены товара на количество этого товара:

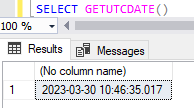


# Функции по работе с датами и временем.

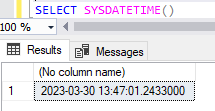
* GETDATE



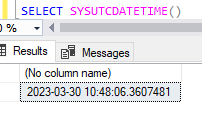
* GETUTCDATE



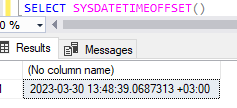
* SYSDATETIME



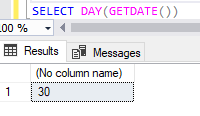
* SYSUTCDATETIME



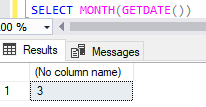
* SYSDATETIMEOFFSET



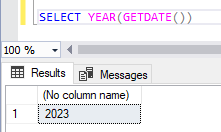
* DAY



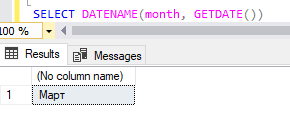
* MONTH



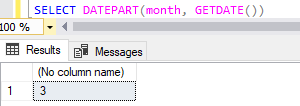
* YEAR



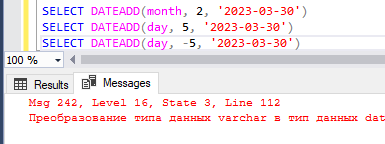
* DATENAME



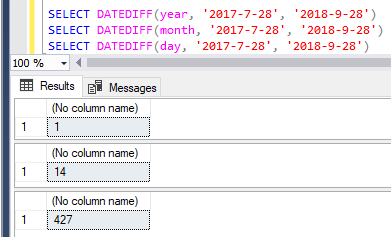
* DATEPART



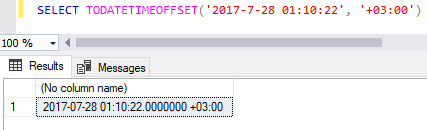
* DATEADD



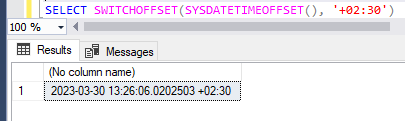
* DATEDIFF



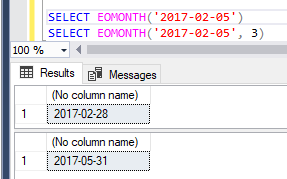
* TODATETIMEOFFSET



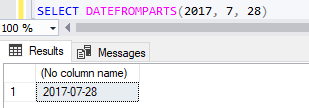
* SWITCHOFFSET



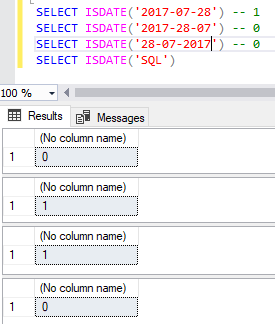
* EOMONTH



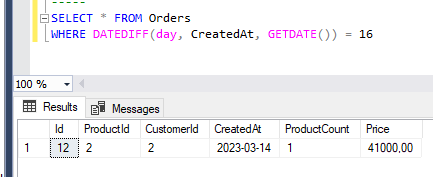
* DATEFROMPARTS



* ISDATE

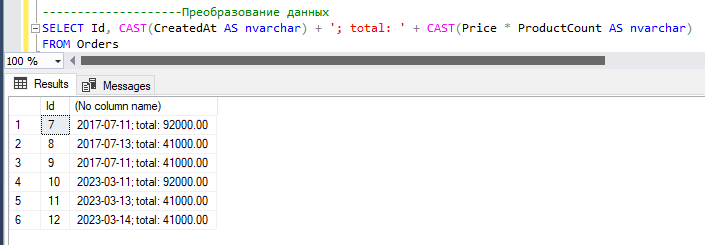


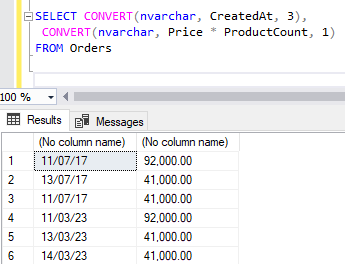
найдем заказы, которые были сделаны 16 дней назад

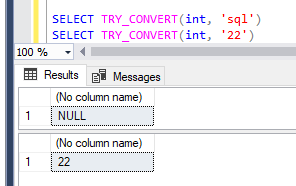


# Преобразование данных

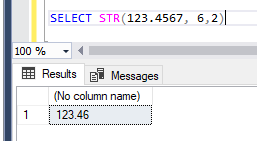
* CAST



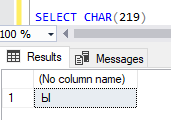
* Convert
* TRY\_CONVERT



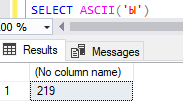
* STR



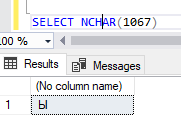
* CHAR



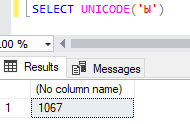
* ASCII(char)



* NCHAR(int)

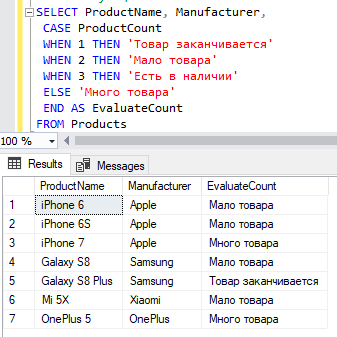


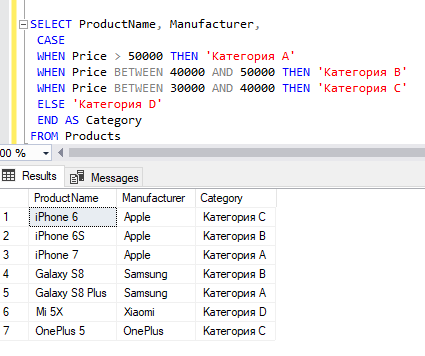
* UNICODE(char)



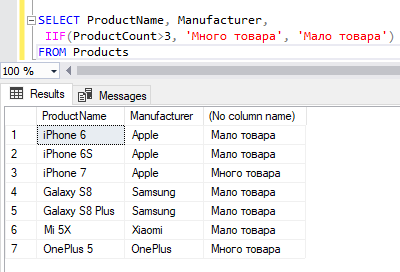
# Функции CASE и IIF

* CASE

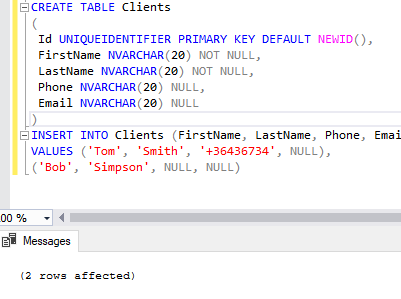


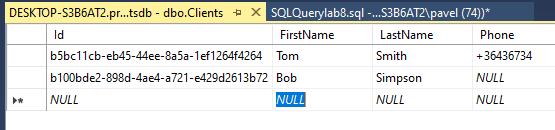


* IIF

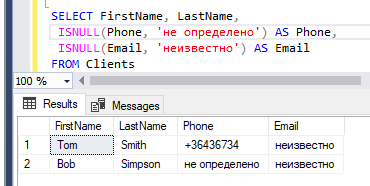


# Функции NEWID, ISNULL и COALESCE

* NEWID



* ISNULL



* COALESCE

