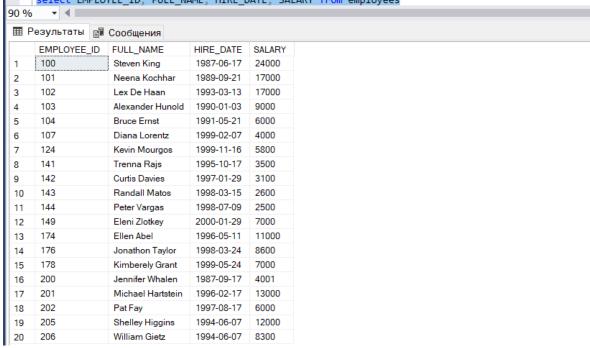
$\dot{\dot{}}$  --1 The Human Resources (HR) department needs data including id, full name, hiring date and  $\dot{\dot{}}$  --salaries of all employees.

select EMPLOYEE\_ID, FULL\_NAME, HIRE\_DATE, SALARY from employees



--2 Write a query to display id, full names, email, annual salaries of all employees. select EMPLOYEE\_ID, FULL\_NAME, EMAIL, SALARY\*12 as annual\_salaries from employees

90 %	▼ 4							
⊞ Результаты 🗊 Сообщения								
	EMPLOYEE_ID	FULL_NAME	EMAIL	annual_salaries				
1	100	Steven King	SKING	288000				
2	101	Neena Kochhar	NKOCHAR	204000				
3	102	Lex De Haan	LDEHAA	204000				
4	103	Alexander Hunold	AHUNOLD	108000				
5	104	Bruce Ernst	BENST	72000				
6	107	Diana Lorentz	DLORENTZ	48000				
7	124	Kevin Mourgos	KNOURGOS	69600				
8	141	Trenna Rajs	TRAJS	42000				
9	142	Curtis Davies	CDAVIES	37200				
10	143	Randall Matos	RMATOS	31200				
11	144	Peter Vargas	PVARGAS	30000				
12	149	Eleni Zlotkey	EZLOTKEY	84000				
13	174	Ellen Abel	ABELL	132000				
14	176	Jonathon Taylor	JTAILOR	103200				
15	178	Kimberely Grant	KGRANT	84000				
16	200	Jennifer Whalen	JWHALEN	48012				
17	201	Michael Hartstein	MHARTSTE	156000				
18	202	Pat Fay	PFAY	72000				
19	205	Shelley Higgins	SHIGGINS	144000				
20	206	William Gietz	WGIETZ	99600				

 $\stackrel{
ightharpoonup}{=}$  --3 The Human Resources (HR) department requests data for all unique jobs from the --EMPLOYEES table. Job IDs should not be repeated in the output. SELECT DISTINCT job\_id FROM employees 90 % - - -**Ш** Результаты 🛍 Сообщения job\_id AC ACCOUNT AC MGR 2 AD ASST 3 AD PRES AD VP 5 IT PROG 6 MK MAN 8 MK REP 9 SA MAN 10 SA REP SH CLERK 11 SH MAN 12

---4 Due to funding problems, the HR department needs a report that provides all the information --about the programmers whose salaries are over 5000. select \* from employees where salary>5000 **▼** 4 ■ 90 % **Ш** Результаты 🗐 Сообщения EMPLOYEE\_ID FULL\_NAME EMAIL PHONE NUMBER HIRE\_DATE JOB\_ID SALARY 24000 Steven King SKING 515.123.4567 1987-06-17 AD PRES 101 Neena Kochhar NKOCHAR 515.123.4568 1989-09-21 AD VP 17000 2 3 102 Lex De Haan LDEHAA 515.123.4569 1993-03-13 AD VP 17000 Alexander Hunold AHUNOLD 590.423.4567 1990-01-03 IT PROG 9000 4 103 BENST 590 423 4568 1991-05-21 IT PROG 6000 5 104 Bruce Ernst 124 KNOURGOS 650.123.5234 1999-11-16 SH MAN 5800 6 Kevin Mourgos 149 Eleni Zlotkey EZLOTKEY 011.44.1344.429010 2000-01-29 SA MAN 8 174 Ellen Abel ABELL 011.44.1644.429267 1996-05-11 SA REP 11000 9 176 Jonathon Taylor **JTAILOR** 011.44.1644.429265 1998-03-24 SA REP 8600 10 178 Kimberely Grant KGRANT 011.44.1644.429263 1999-05-24 SA REP 7000 MHARTSTE 515.123.5555 1996-02-17 MK MAN 13000 11 201 Michael Hartstein 1997-08-17 MK REP 202 Pat Fay PFAY 6000 12 603.123.6666 13 205 Shelley Higgins SHIGGINS 515.123.8080 1994-06-07 AC MGR 12000

1994-06-07 AC ACCOUNT

\_---5 Generate a report to display the id, full name, and job title of all employees whose salaries --range from 4000 to 7000 (including left and right boundaries). (USE BETWEEN!) select EMPLOYEE\_ID, FULL\_NAME, JOB\_ID from employees where SALARY between 4000 and 7000 90 % 🔻 🖣 🔤 **III** Результаты 🔋 Сообщения EMPLOYEE\_ID FULL\_NAME JOB\_ID 104 IT PROG Bruce Ernst Diana Lorentz IT PROG Kevin Mourgos 3 124 SH MAN 4 149 Eleni Zlotkey SA MAN

515.123.8181

206

178

200

202

14

William Gietz

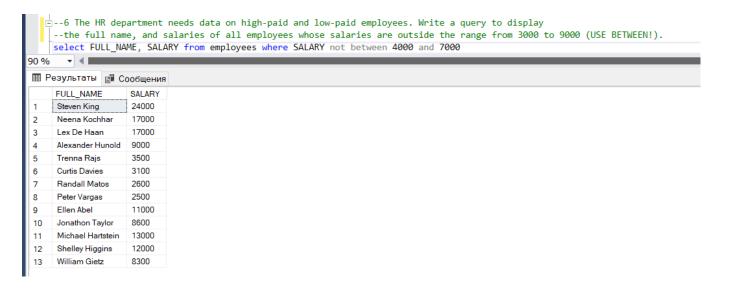
Kimberely Grant SA REP

Jennifer Whalen AD ASST

MK REP

Pat Fay

WGIETZ



--7 Write a query to display id, last names, first names, annual salaries of those employees whose --annual salaries are below 50000.
-select EMPLOYEE\_ID,
LEFT(FULL\_NAME, CHARINDEX(' ', FULL\_NAME)) AS [FirstName],
RIGHT(FULL\_NAME,CHARINDEX(' ', REVERSE(FULL\_NAME))-1) AS [LastName],
salary\*12 as annual\_salaries
from employees
where salary\*12 <50000

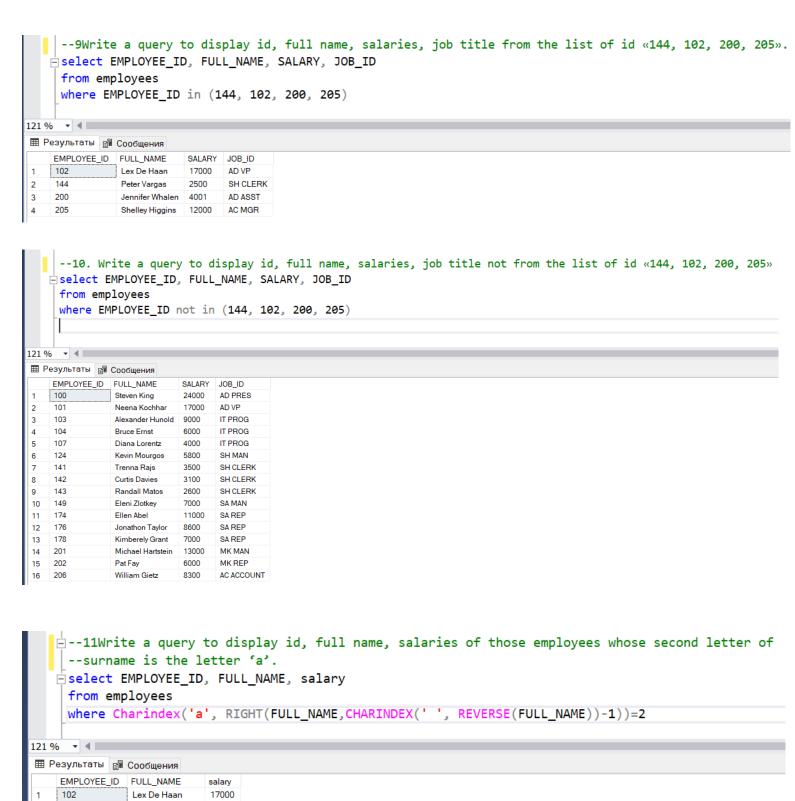
90 % ▼ ◀ Ш Результаты 🛍 Сообщения

	EMPLOYEE_ID	FirstName	LastName	annual_salaries
1	107	Diana	Lorentz	48000
2	141	Trenna	Rajs	42000
3	142	Curtis	Davies	37200
4	143	Randall	Matos	31200
5	144	Peter	Vargas	30000
6	200	Jennifer	Whalen	48012

where 4000<= SALARY and SALARY<= 7000

□ Результаты □ Сообщения

	EMPLOYEE_ID	FULL_NAME	SALARY
1	104	Bruce Ernst	6000
2	107	Diana Lorentz	4000
3	124	Kevin Mourgos	5800
4	149	Eleni Zlotkey	7000
5	178	Kimberely Grant	7000
6	200	Jennifer Whalen	4001
7	202	Pat Fay	6000



Trenna Rajs

Curtis Davies

Peter Vargas

Pat Fay

Randall Matos

Jonathon Taylor

Michael Hartstein

```
--12 Write a query to display all the names of employees where the third letter of name is 'a'.
     CHARINDEX(' ', FULL_NAME)) AS [Name]
       LEFT(FULL_NAME,
       from employees
       where Charindex('a', LEFT(FULL_NAME, CHARINDEX(' ', FULL_NAME)))=3
121 % ▼ ◀ ■
 Diana
    ⊟--13 Write a query to display id, full name, email, salaries of those employees whose FIRST
      --LETTER of NAME + last name = EMAIL of each employee. Example: full_name = Steven
      --King, email = SKING. Here name is Steven → First Letter is S, last name = King. FIRST
     --LETTER of NAME + last name is S + King = SKing = SKING. Consider upper and lower cases
     --to be the same (S = s).
    select EMPLOYEE_ID, FULL_NAME, EMAIL, SALARY
     from employees
     where upper(concat(substring(FULL_NAME, 1, 1), RIGHT(FULL_NAME,CHARINDEX(' ', REVERSE(FULL_NAME))-1) ))=upper(EMAIL)
121 %
III Результаты III Сообщения
    EMPLOYEE_ID FULL_NAME
                            EMAIL
                                     SALARY
    100
                Steven Kina
                            SKING
                                      24000
    103
                Alexander Hunold AHUNOLD
                                      9000
3
    107
                Diana Lorentz
                            DLORENTZ
                                     4000
    141
                Trenna Rais
                            TRAJS
                                      3500
5
    142
                Curtis Davies
                            CDAVIES
                                      3100
    143
                Randall Matos
                            RMATOS
                                      2600
    144
                Peter Vargas
                             PVARGAS.
                                     2500
    149
                Eleni Zlotkey
                             EZLOTKEY
                                     7000
    178
                Kimberely Grant
                            KGRANT
                                      7000
    200
                Jennifer Whalen
                            JWHALEN
                                     4001
11
    202
                Pat Fay
                             PFΔY
                                      6000
12
    205
                Shelley Higgins
                            SHIGGINS
                                      12000
13
    206
                William Gietz
                            WGIETZ
                                      8300

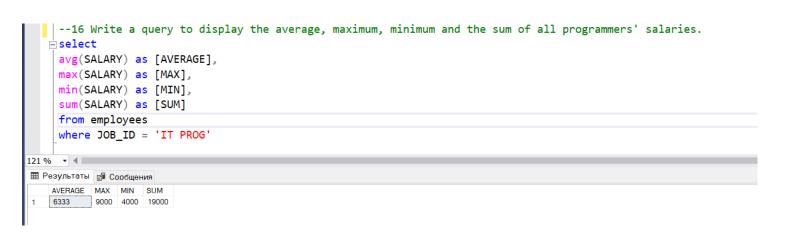
ightarrow--14 Write a query to display id, full name, email, salaries of all employees, sorting their salaries
     --in ascending order then by hire date in descending order.
    select EMPLOYEE_ID, FULL_NAME, EMAIL, SALARY
     from employees
     order by SALARY asc, HIRE_DATE desc
121 % 🔻 🖣 🗔
⊞ Результаты № Сообщения
    EMPLOYEE_ID FULL_NAME
                                    SALARY
                           EMAIL
    144
               Peter Vargas
                           PVARGAS
                                    2500
    143
               Randall Matos
                           RMATOS
                                    2600
               Curtis Davies
                           CDAVIES
                                    3100
    142
    141
               Trenna Rajs
                           TRAJS
                                     3500
    107
                           DLORENTZ
               Diana Lorentz
    200
               Jennifer Whalen
                           JWHALEN
    124
               Kevin Mourgos
                           KNOURGOS
                                    5800
    202
               Pat Fay
                           PFAY
                                    6000
    104
               Bruce Ernst
                           BENST
                                     6000
                           EZLOTKEY
10
    149
               Eleni Zlotkev
                                    7000
    178
                           KGRANT
                                    7000
               Kimberely Grant
               William Gietz
    206
                           WGIETZ
12
                                    8300
13
               Jonathon Taylor
                           JTAILOR
                           AHUNOLD
    103
15
    174
               Ellen Abel
                           ABELL
                                     11000
16
    205
               Shelley Higgins
                           SHIGGINS
                                     12000
17
    201
               Michael Hartstein
                           MHARTSTE
                                    13000
                           LDEHAA
18
    102
               Lex De Haan
                                     17000
                           NKOCHAR
    101
               Neena Kochhar
                                    17000
19
```

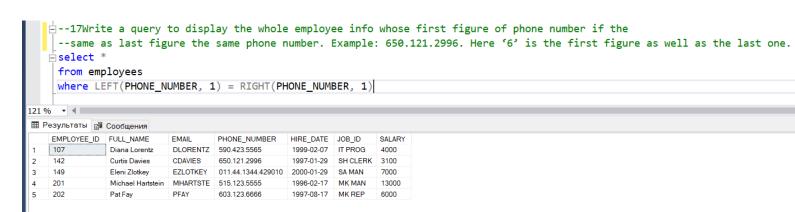
100

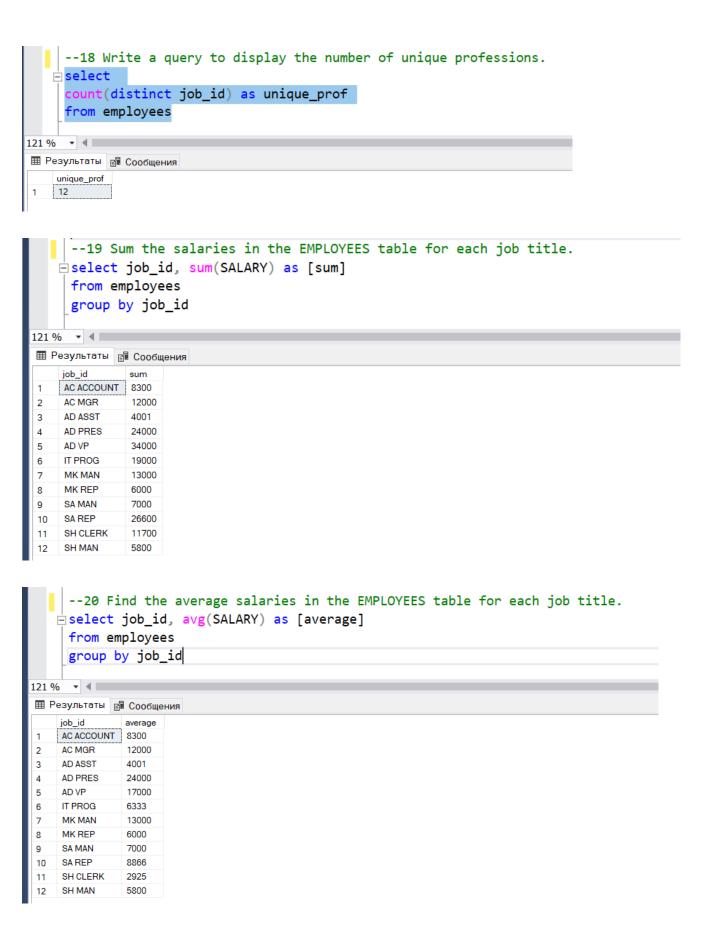
Steven King

SKING

```
--15 Write a query to display id, full name, salaries of all employees, sorting their id in descending order.
    select EMPLOYEE_ID, FULL_NAME, SALARY
      from employees
      order by EMPLOYEE_ID desc
121 %
      ▼ 4 III
EMPLOYEE_ID FULL_NAME
                                SALARY
                  William Gietz
                                12000
     205
                  Shelley Higgins
     202
                 Pat Fav
                                6000
     201
                 Michael Hartstein
                                13000
     200
                  Jennifer Whalen
                                4001
     178
                  Kimberely Grant
                                7000
     176
                  Jonathon Taylor
                                8600
     174
                  Ellen Abel
                                11000
     149
                                7000
     144
                  Peter Vargas
                                2500
10
11
     143
                  Randall Matos
                                2600
                 Curtis Davies
12
     142
                                3100
13
     141
                 Trenna Rais
                                3500
14
     124
                  Kevin Mourgos
                                5800
     107
                  Diana Lorentz
                                4000
     104
                  Bruce Ernst
                                6000
                  Alexander Hunold 9000
17
18
     102
                  Lex De Haan
                                17000
                  Neena Kochhar
                                17000
     101
19
20
     100
                                24000
                 Steven King
```



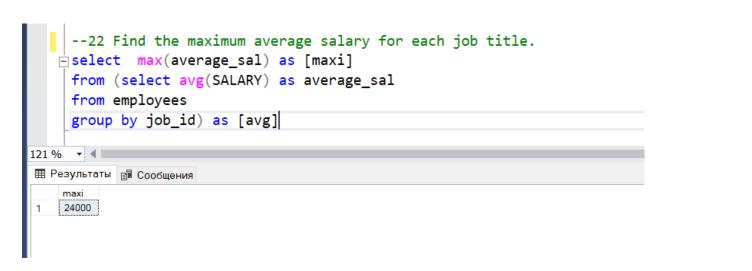


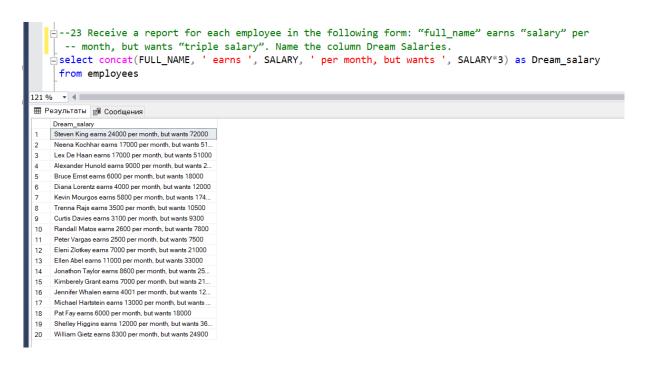


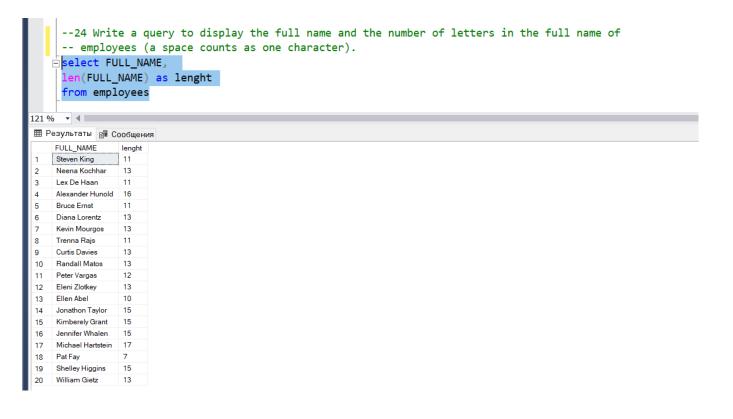
```
_{
m ar{	ext{d}}}	ext{--21} Find the maximum salaries in the EMPLOYEES table for each job title that exceed 10,000
     --and sort them in descending order.l
    select job_id, max(SALARY) as [maxi]
      from employees
      where SALARY>10000
      group by job_id
      order by maxi desc
121 % ▼ ◀

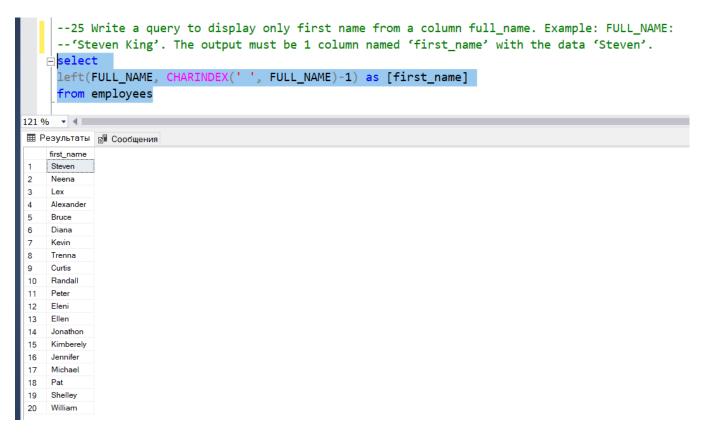
    ⊞ Результаты 
    ெ Сообщения

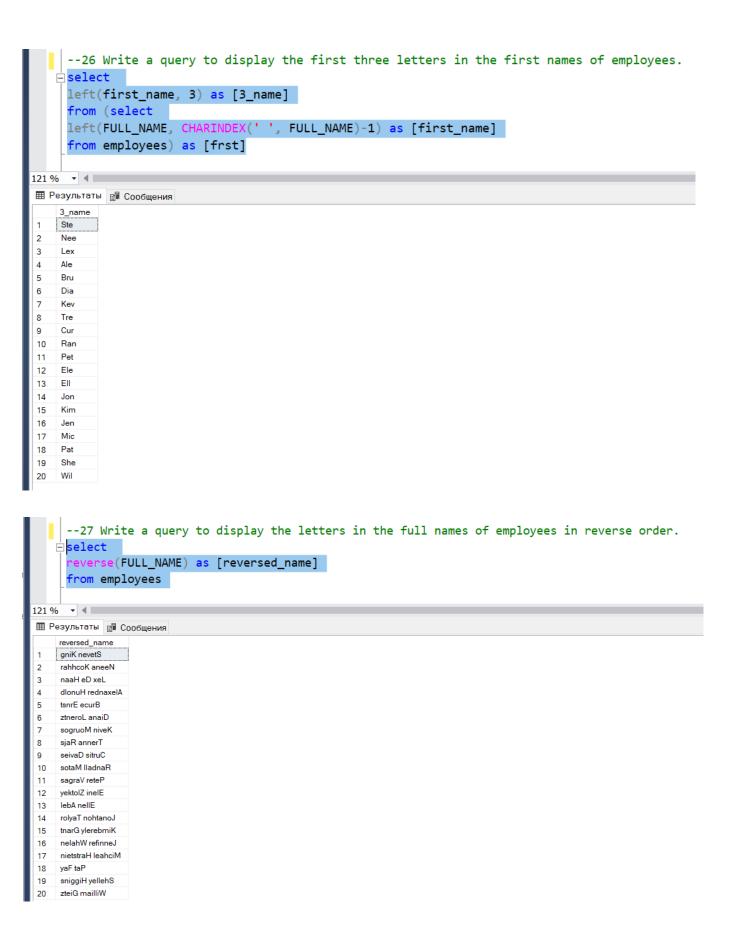
    job_id
            maxi
    AD PRES 24000
    AD VP
            17000
            13000
    MK MAN
    AC MGR
            12000
    SA REP
           11000
```



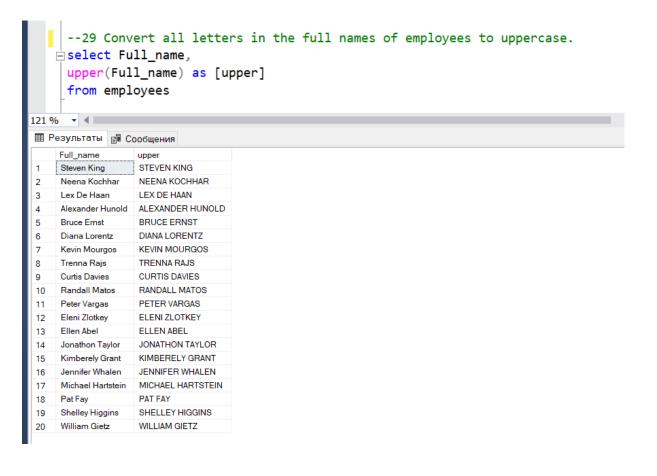








```
--28 Replace "en" characters in the full_names of employees with "yu" characters
     select Full_name,
       Replace(Full_name, 'en', 'yu') as [replaced]
       from employees
121 % 🔻 🖣
⊞ Результаты 💼 Сообщения
     Full_name
                    Stevyu King
     Steven King
     Neena Kochhar
                     Neyua Kochhar
     Lex De Haan
                     Lex De Haan
     Alexander Hunold Alexander Hunold
     Bruce Ernst
                     Bruce Ernst
     Diana Lorentz
                     Diana Loryutz
     Kevin Mourgos
                     Kevin Mourgos
8
     Trenna Rais
                     Trvuna Rais
     Curtis Davies
                     Curtis Davies
     Randall Matos
                     Randall Matos
     Peter Vargas
                     Peter Vargas
 11
 12
     Eleni Zlotkey
                     Elyui Zlotkey
     Ellen Abel
                     Ellyu Abel
     Jonathon Taylor
                     Jonathon Taylor
 14
 15
     Kimberely Grant
                     Kimberely Grant
     Jennifer Whalen
                     Jyunifer Whalyu
 17
     Michael Hartstein
                     Michael Hartstein
     Pat Fay
 18
                     Pat Fav
     Shelley Higgins
                     Shelley Higgins
     William Gietz
                     William Gietz
```



```
| --salary, phone_number of employees whose salary more than 5000 and sort it by Salary in descending order.
| --salary, phone_number of employees whose salary more than 5000 and sort it by Salary in descending order.
| --salary, phone_number of employees whose salary more than 5000 and sort it by Salary in descending order.
| --salary, phone_number of employees whose salary salary
```