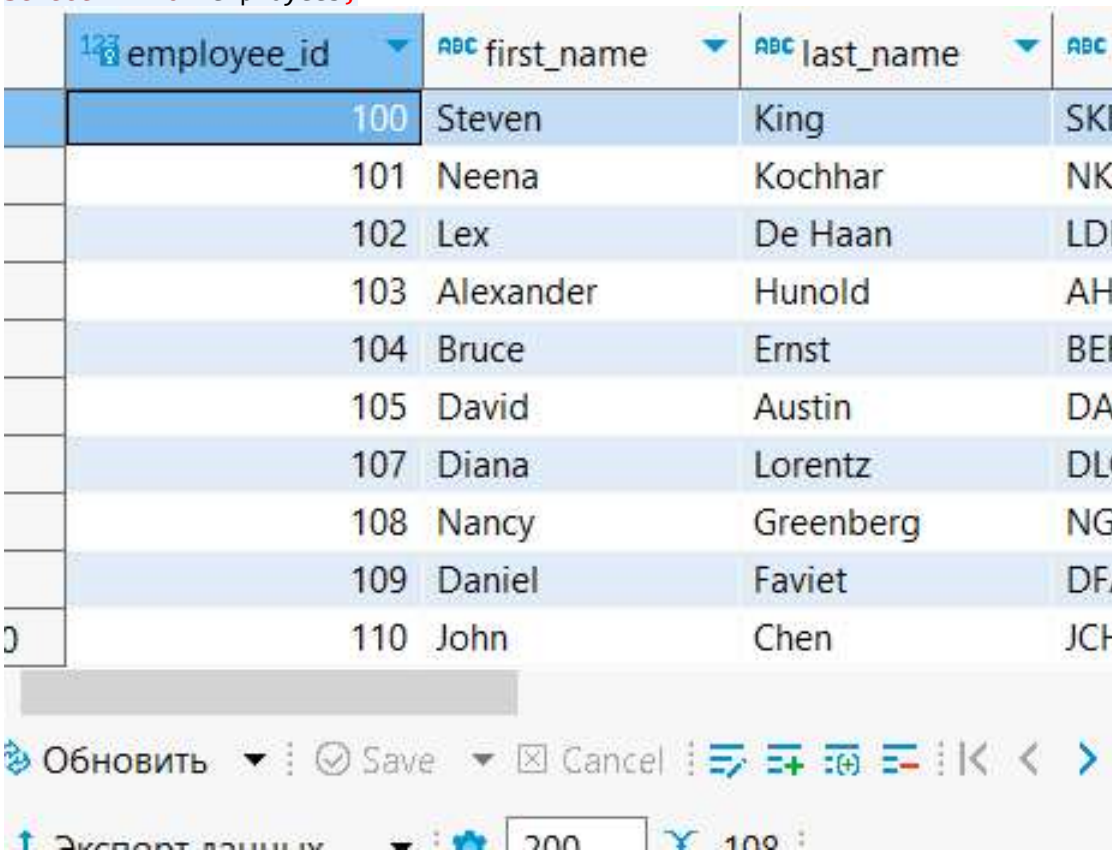
1.

```
select * from employees;
```



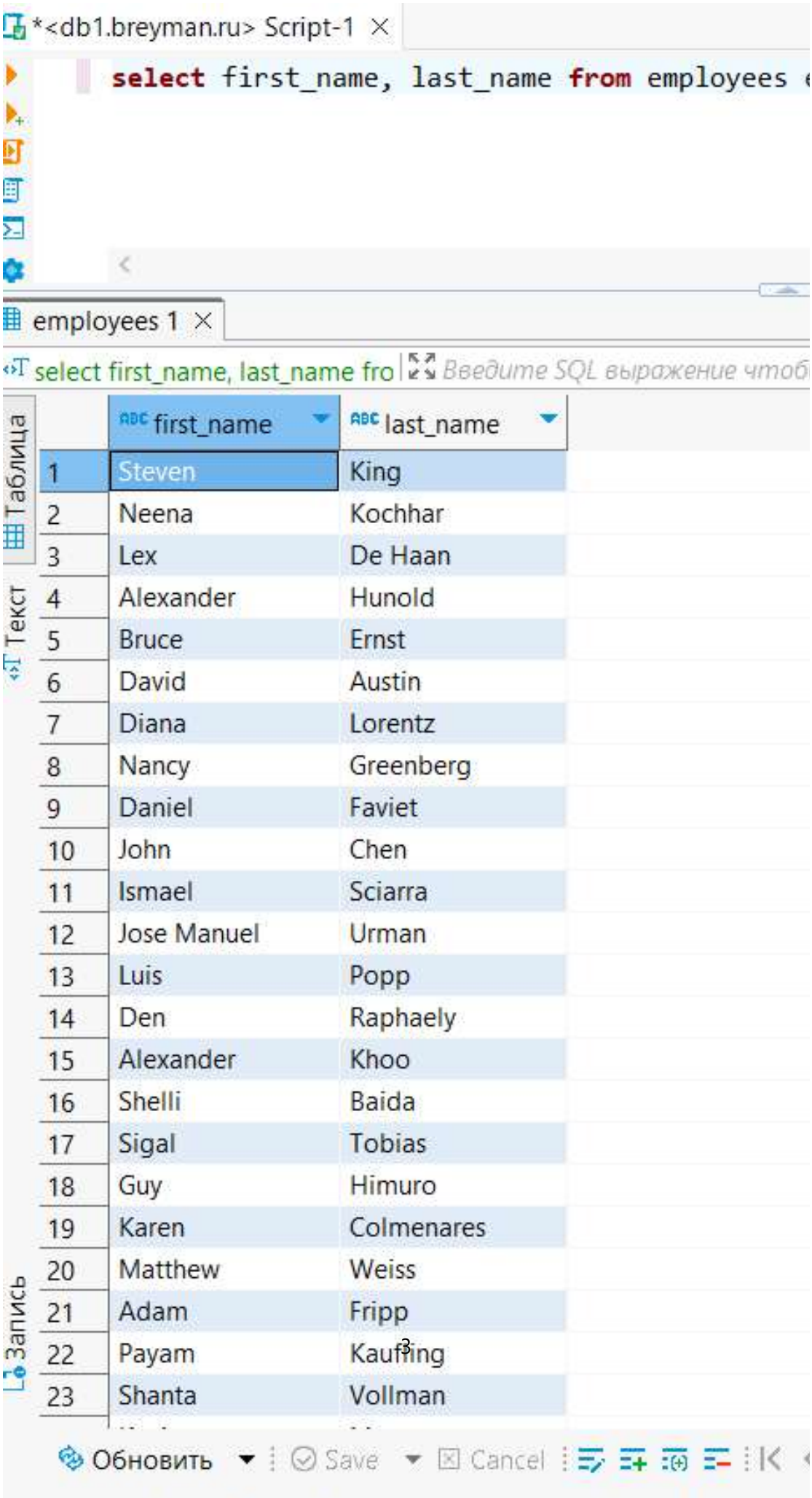
employee_id	first_name	last_name	
100	Steven	King	SK
101	Neena	Kochhar	NK
102	Lex	De Haan	LD
103	Alexander	Hunold	AH
104	Bruce	Ernst	BE
105	David	Austin	DA
107	Diana	Lorentz	DL
108	Nancy	Greenberg	NG
109	Daniel	Faviet	DF
110	John	Chen	JC

2.

```
select department_id, department_name, manager_id from departments d
```

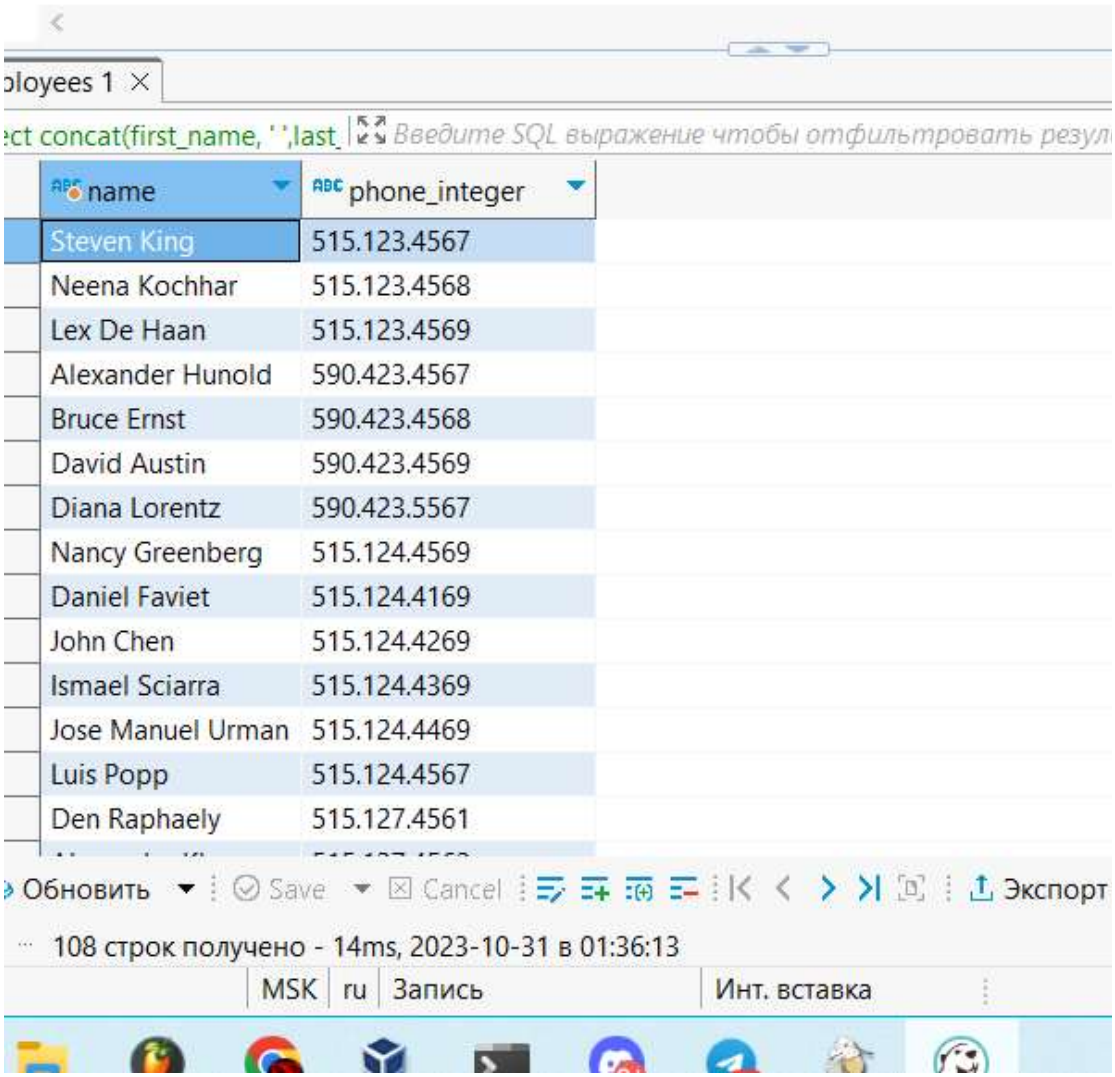
	department_id	department_name	manager_id
1	10	Administration	200
2	20	Marketing	201
3	30	Purchasing	114
4	40	Human Resources	203
5	50	Shipping	121
6	60	IT	103
7	70	Public Relations	204
8	80	Sales	145
9	100	Finance	108
10	110	Accounting	205
11	120	Treasury	[NULL]

3.


*<db1.breyman.ru> Script-1
select first_name, last_name from employees
employees 1
select first_name, last_name fro
Введите SQL выражение чтоб
Таблица
Текст
Запись
first_name
last_name
1 Steven King
2 Neena Kochhar
3 Lex De Haan
4 Alexander Hunold
5 Bruce Ernst
6 David Austin
7 Diana Lorentz
8 Nancy Greenberg
9 Daniel Faviet
10 John Chen
11 Ismael Sciarra
12 Jose Manuel Urman
13 Luis Popp
14 Den Raphaely
15 Alexander Khoo
16 Shelli Baida
17 Sigal Tobias
18 Guy Himuro
19 Karen Colmenares
20 Matthew Weiss
21 Adam Fripp
22 Payam Kaufling
23 Shanta Vollman
Обновить
Save
Cancel

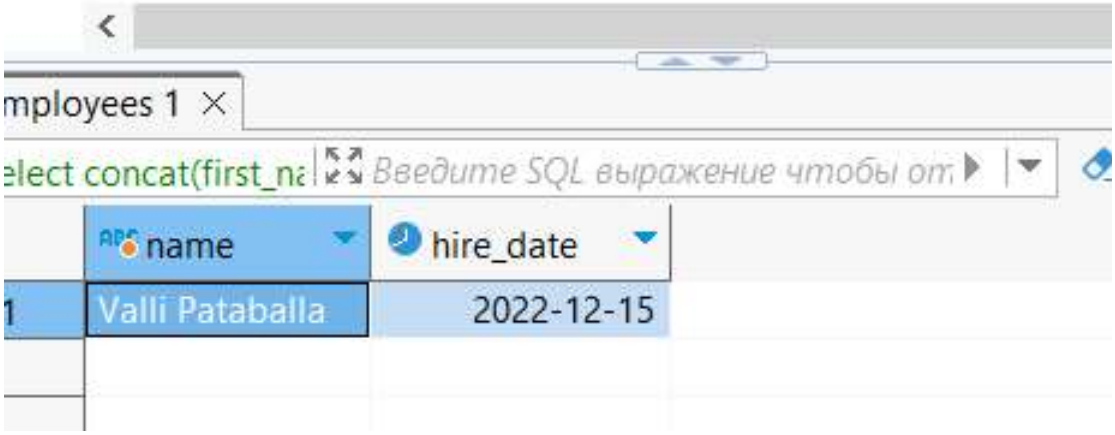
4.

```
select concat(first_name, ' ',last_name) as name, phone_integer
```



5.

```
select concat(first_name, ' ',last_name) as name
order by hire_date desc
limit 1
```



6.

*<db1.breyman.ru> Script-1

```
select concat(e.first_name, ' ', e.last_name)
d.department_name from employees e
join departments d on e.department_id = d.depa
where exists (
    select 1
    from employees e2
    where e.employee_id = e2.manager_id
)
```

departments 1

select concat(e.first_ | Введите SQL выражение чтобы от

	name	department_name
1	Steven King	Executive
2	Neena Kochhar	Executive
3	Lex De Haan	Executive
4	Alexander Hunold	IT
5	Nancy Greenberg	Finance
6	Den Raphaely	Purchasing
7	Matthew Weiss	Shipping
8	Adam Fripp	Shipping
9	Payam Kaufling	Shipping
10	Shanta Vollman	Shipping
11	Kevin Mourgos	Shipping
12	John Russell	Sales
13	Karen Partners	Sales

Обновить | Save | Cancel | Экспорт данных | 200 | 18

```sql
select concat(e.first_name, ' ', e.last_name)
d.department_name from employees e
join departments d on e.department_id = d.dep
where not exists (
    select 1
    from employees e2
    where e.employee_id = e2.manager_id
)
```

departments 1

select concat(e.first_ Введите SQL выражение чтобы от

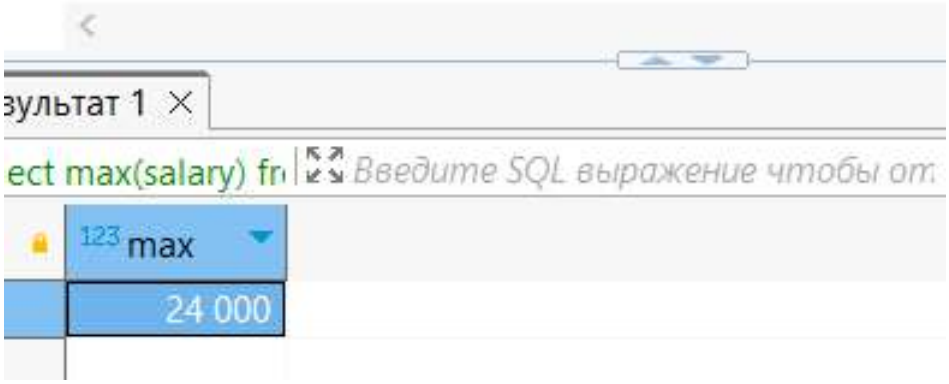
	name	department_name
1	Bruce Ernst	IT
2	David Austin	IT
3	Diana Lorentz	IT
4	Daniel Faviet	Finance
5	John Chen	Finance
6	Ismael Sciarra	Finance
7	Jose Manuel Urmar	Finance
8	Luis Popp	Finance
9	Alexander Khoo	Purchasing
10	Shelli Baida	Purchasing
11	Sigal Tobias	Purchasing
12	Guy Himuro	Purchasing
13	Karen Colmenares	Purchasing

Обновить Save Cancel

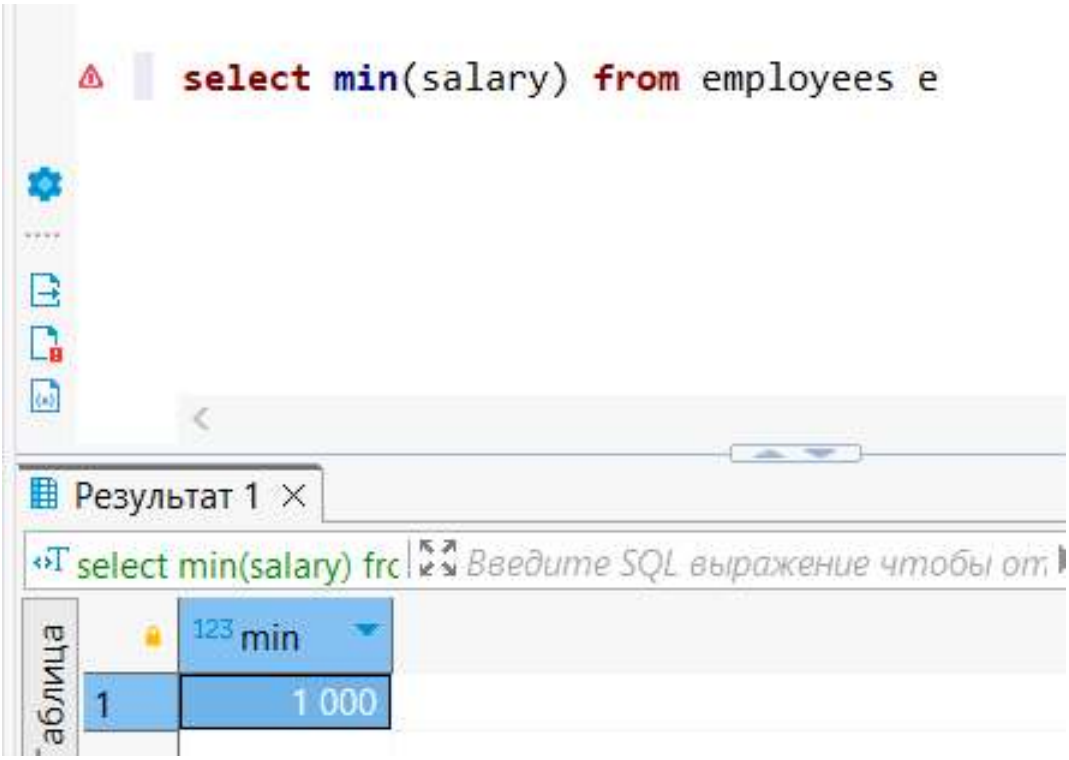
Экспорт данных ... 200 90

8.

```
select max(salary) from employees e
```

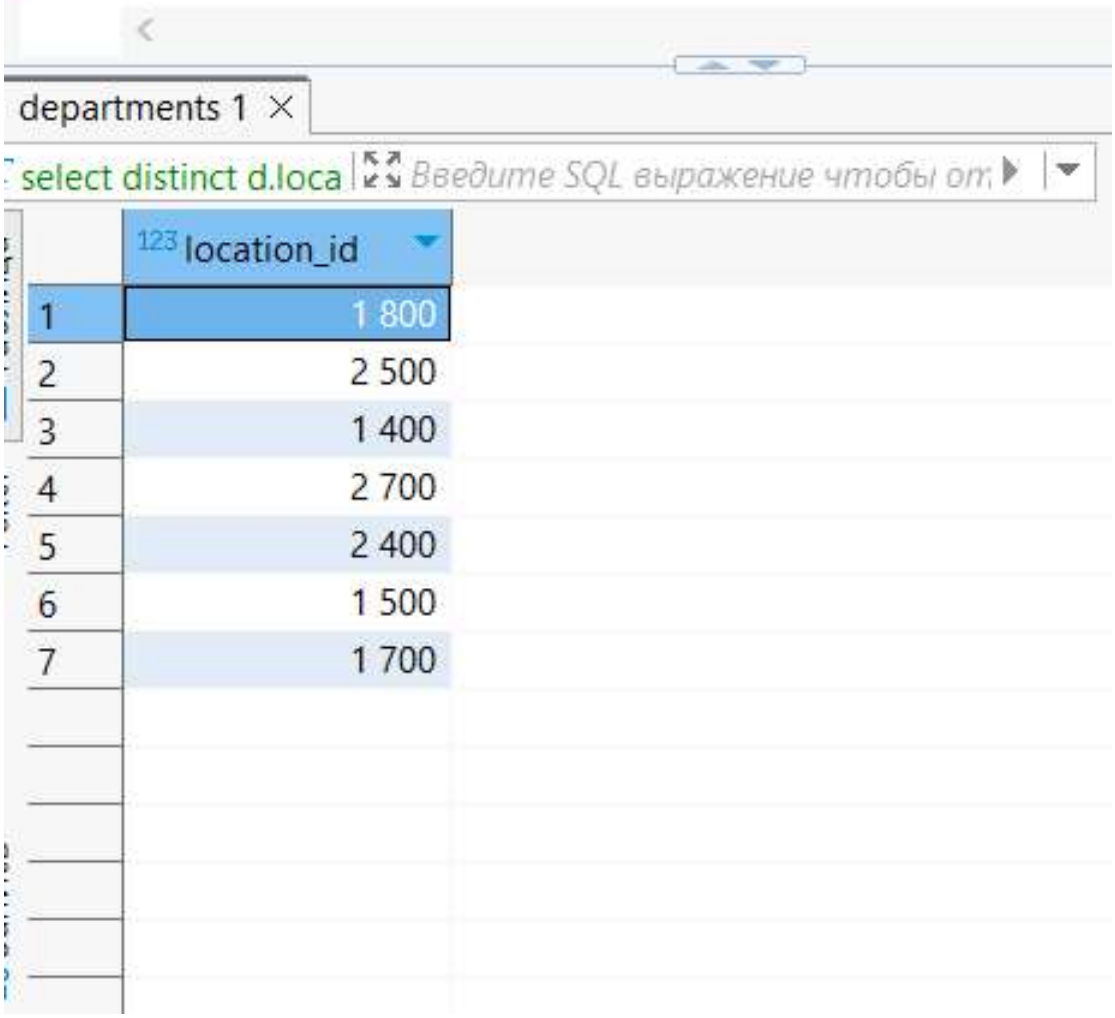


9)


select min(salary) from employees e
Результат 1
select min(salary) frc
Введите SQL выражение чтобы от
123 min
1
1 000

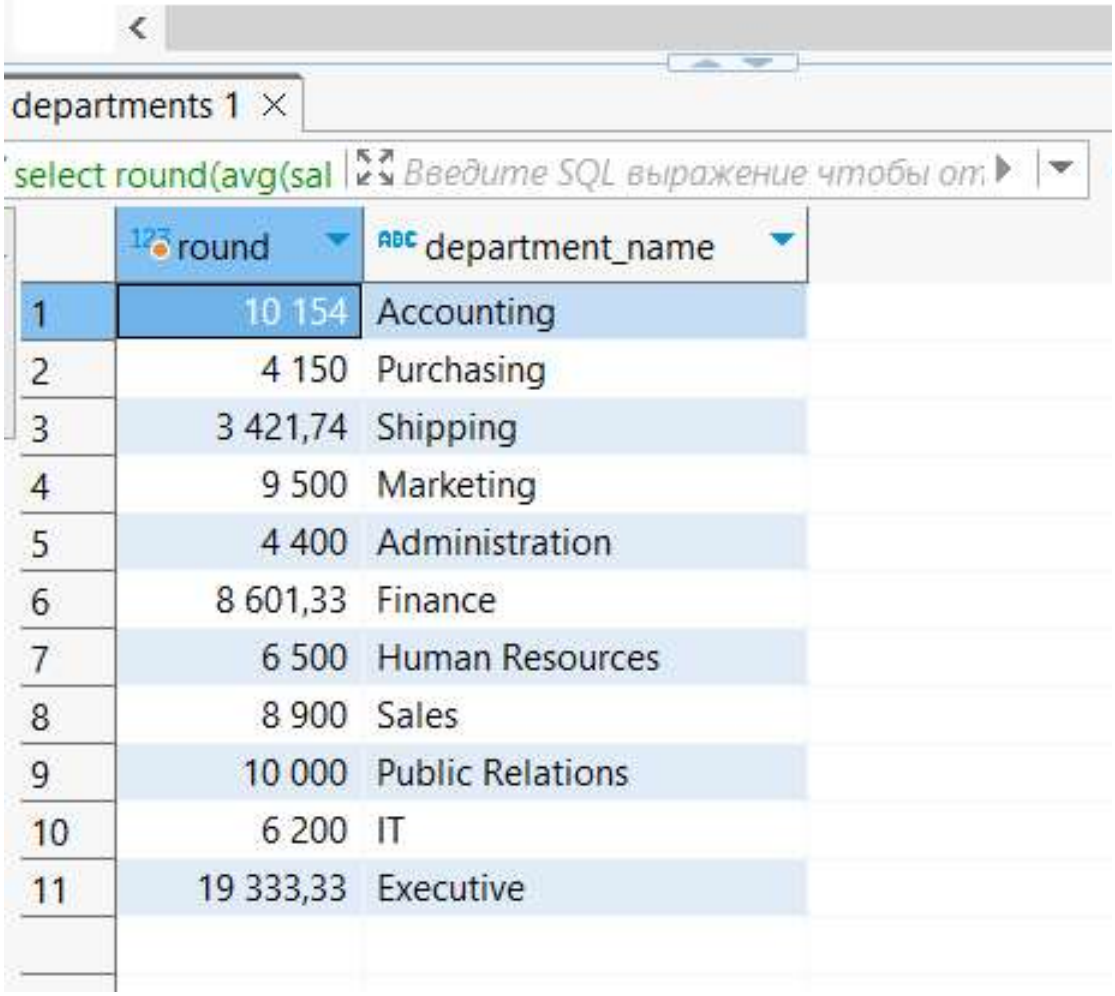
10)

```
select distinct d.location_id from departments
```



11)

```
select round(avg(salary),2), d.department_name
join departments d on e.department_id = d.depa
group by d.department_name
```



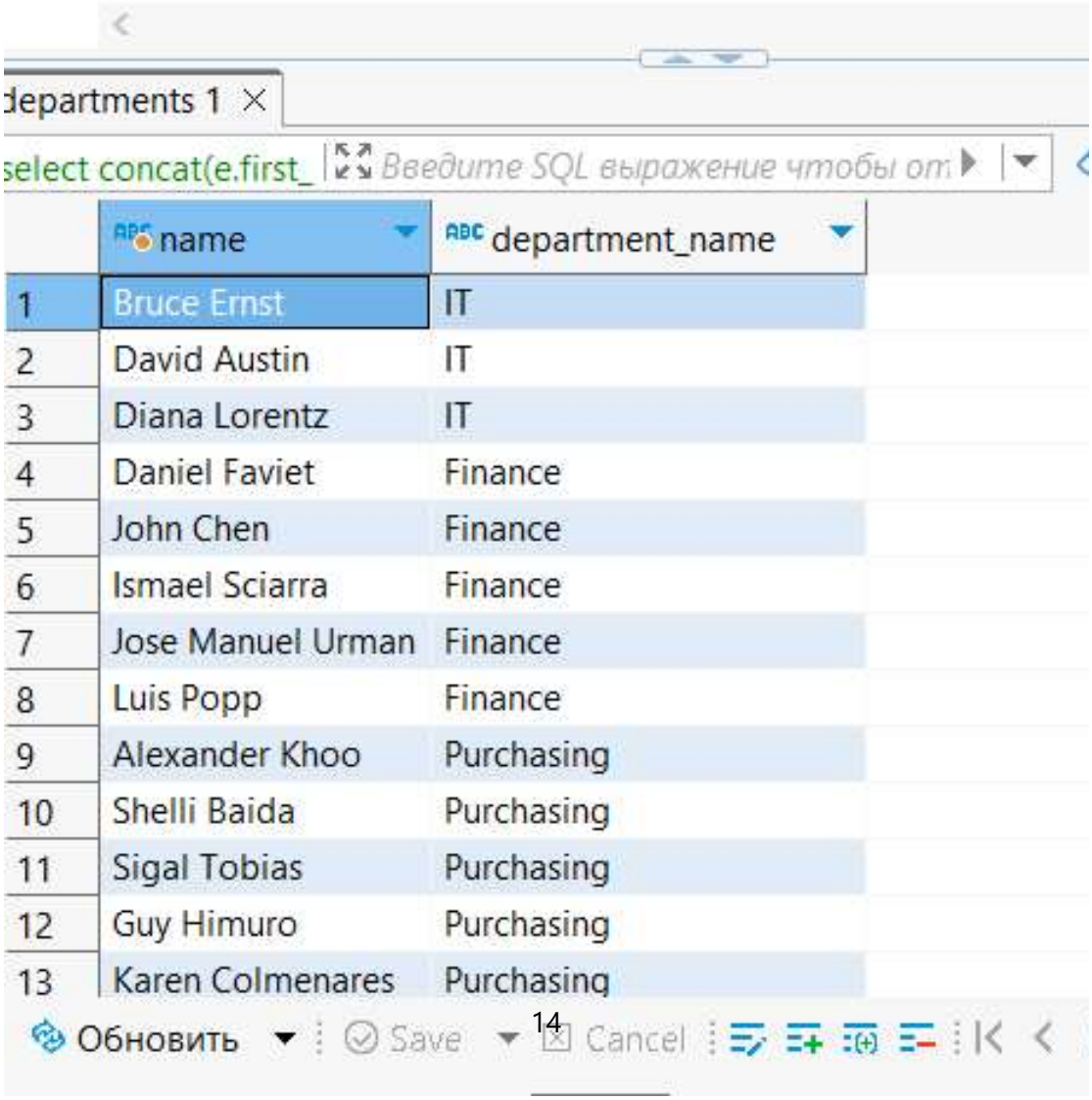
departments 1

select round(avg(sal | Введите SQL выражение чтобы от

	round	department_name
1	10 154	Accounting
2	4 150	Purchasing
3	3 421,74	Shipping
4	9 500	Marketing
5	4 400	Administration
6	8 601,33	Finance
7	6 500	Human Resources
8	8 900	Sales
9	10 000	Public Relations
10	6 200	IT
11	19 333,33	Executive

12)

```sql
select concat(e.first_name, ' ', e.last_name) a
d.department_name from employees e
join departments d on e.department_id = d.depar
where not exists (
    select 1
    from employees e2
    where e.employee_id = e2.manager_id
)
```



PART 1.2

1)

```sql
select
    (
        select max(salary) from employees e
    ) / e.salary as how_many_times_less,
    (
        select max(salary) from employees e
    ) as max_salary,
    e.salary
from employees e
```

employees 1

select (select max(s... Введите SQL выражение чтобы от...

	how_many_times_less	max_salary	salar
1	1	24 000	2
2	1,4117647059	24 000	1
3	1,4117647059	24 000	1
4	2,6666666667	24 000	
5	4	24 000	
6	5	24 000	
7	5,7142857143	24 000	
8	1,998667555	24 000	1
9	2,6666666667	24 000	
10	2,9268292683	24 000	
11	3,1168831169	24 000	
12	3,0769230769	24 000	
13	3,4782608696	24 000	

Таблица Текст Запись

Обновить Save Cancel

Экспорт данных ... 200 108

2)

```sql
select
(
    select round(avg(salary), 0)
    from employees e1
    where e1.department_id = e.department_id
) / e.salary as how_many_times_less,
(
    select round(avg(salary), 0)
    from employees e1
    where e1.department_id = e.department_id
) as avg_department, d.department_name
from employees e
join departments d on d.department_id = e.depar
```

Результат 1 | Результат 2 | departments 3

select (select round | Введите SQL выражение чтобы от

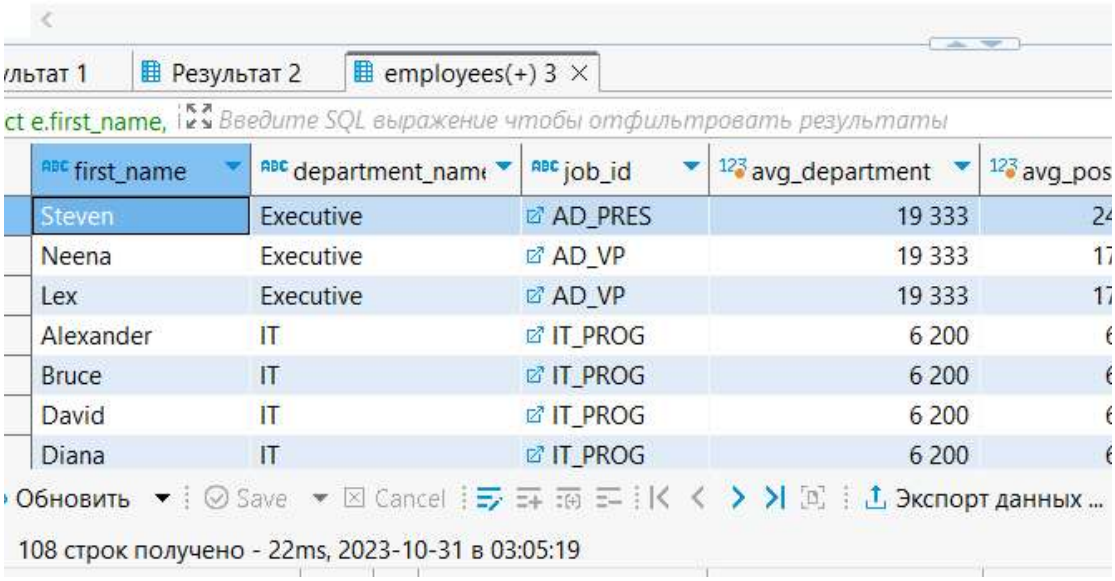
	how_many_times_less	avg_department	dep
1	0,8055416667	19 333	Execu
2	1,1372352941	19 333	Execu
3	1,1372352941	19 333	Execu
4	0,6888888889	6 200	IT
5	1,0333333333	6 200	IT
6	1,2916666667	6 200	IT
7	1,4761904762	6 200	IT
8	0,716272485	8 601	Financ
9	0,9556666667	8 601	Financ
10	1,048902439	8 601	Financ
11	1,117012987	8 601	Financ
12	1,1026923077	8 601	Financ
13	1,2465217391	8 601	Financ

Обновить | Save | Cancel

Экспорт данных | 200 | 108

3)

```
select e.first_name,  d.department_name, e.job_id,
(
    select round(avg(salary), 0)
    from employees e1
    where e1.department_id = e.department_id
) as avg_department,
(
    select round(avg(salary), 0)
    from employees e2
    where e2.job_id = e.job_id
) as avg_pos,
(
    select round(avg(salary), 0)
    from employees e1
    where e1.department_id = e.department_id
) / (
    select round(avg(salary), 0)
    from employees e2
    where e2.job_id = e.job_id
) as dep_to_pos_ratio
from employees e
join departments d on d.department_id = e.department_id
```



4)

```sql
--4
SELECT e.salary, e.*
FROM employees e
WHERE (e.department_id, e.salary, e.last_name) IN (
    SELECT e1.department_id, MIN(e1.salary), MIN(e1.last_name)
    FROM employees e1
    GROUP BY e1.department_id
)
```

Результат 1 | Результат 2 | employees 3 | employees 4

SELECT e.salary, e.* FROM emp | Введите SQL выражение чтобы отфильтровать результаты

	salary	employee_id	first_name	last_name	email
1	17 000	102	Lex	De Haan	LDEHAAN
2	4 400	200	Jennifer	Whalen	JWHALEN
3	6 000	202	Pat	Fay	PFAY
4	6 500	203	Susan	Mavris	SMAVRIS
5	10 000	204	Hermann	Baer	HBAER
6	8 300	206	William	Gietz	WGIETZ