

Добавление столбца в таблицу

```
masterskaya=# select * from type_of_work;
```

id	name
1	laptop_repair
2	computer_repair
3	telephone_repair

(3 rows)

```
masterskaya=# alter table type_of_work add column test text;
```

```
ALTER TABLE
```

```
masterskaya=# select * from type_of_work;
```

id	name	test
1	laptop_repair	
2	computer_repair	
3	telephone_repair	

(3 rows)

```
masterskaya=#
```

Удаление столбца из таблицы

```
masterskaya=# alter table type_of_work add column test text;
```

```
ALTER TABLE
```

```
masterskaya=# select * from type_of_work;
```

id	name	test
1	laptop_repair	
2	computer_repair	
3	telephone_repair	

(3 rows)

```
masterskaya=# alter table type_of_work drop column test;
```

```
ALTER TABLE
```

```
masterskaya=# select * from type_of_work;
```

id	name
1	laptop_repair
2	computer_repair
3	telephone_repair

(3 rows)

```
masterskaya=#
```

Чтение заданных столбцов из таблицы

```
masterskaya=# select * from repair_order;
```

id	client_id	contractor_id	type_of_work_id	date_created	date_completed	status	cost	name
1	1	1	1	2022-11-20	2022-12-02	at work	1000	Repair Honor laptot
2	2	1	3	2022-10-10	2022-10-20	at work	500	Repair Xiaomi Telephone
3	3	3	2	2022-08-10	2022-08-30	completed	2500	Repair Gamer Computer
4	2	1	2	2022-08-20	2022-08-30	completed	1000	Repair office Computer

(4 rows)

Чтение столбцов в таблице repair_order, в которых цена выше 2000

```
masterskaya=# select * from repair_order where cost>2000;
```

id	client_id	contractor_id	type_of_work_id	date_created	date_completed	status	cost	name
3	3	3	2	2022-08-10	2022-08-30	completed	2500	Repair Gamer Computer

(1 row)

Чтение заданных строк из одной таблицы

Чтение строки в таблице, в которых type_of_work_id не 1

```
masterskaya=# select * from repair_order where type_of_work_id not in (1);
```

id	client_id	contractor_id	type_of_work_id	date_created	date_completed	status	cost	name
2	2	1	3	2022-10-10	2022-10-20	at work	500	Repair Xiaomi Telephone
3	3	3	2	2022-08-10	2022-08-30	completed	2500	Repair Gamer Computer
4	2	1	2	2022-08-20	2022-08-30	completed	1000	Repair office Computer

(3 rows)

просмотр строк, у которых имя начинается на D

```
LINE 1: select * from client where name like (D%);
masterskaya=# select * from client where name like 'D%';
 id | name | phone | email
---+---+---+---
 3 | Danil Nikitovich | +79204356633 | danilian@mail.ru
(1 row)
```

Сортировка результатов с помощью ORDER BY:

Сортировка по имени в одиночной таблице client:

```
masterskaya=# select * from client order by name;
 id | name | phone | email
---+---+---+---
 3 | Danil Nikitovich | +79204356633 | danilian@mail.ru
 2 | Svetlana Pavlovna | +7920636881 | svetlana12521@mail.ru
 1 | Veronika Petrovna | +79205642296 | veronika1243@gmail.com
(3 rows)

masterskaya=#
```

Сортировка по цене в одиночной таблицы repair_order:

```
masterskaya=# select * from repair_order order by cost;
```

id	client_id	contractor_id	type_of_work_id	date_created	date_completed	status	cost	name
2	2	1	3	2022-10-10	2022-10-20	at work	500	Repair Xiaomi Telephone
1	1	1	1	2022-11-20	2022-12-02	at work	1000	Repair Honor laptot
4	2	1	2	2022-08-20	2022-08-30	completed	1000	Repair office Computer
3	3	3	2	2022-08-10	2022-08-30	completed	2500	Repair Gamer Computer

(4 rows)

Сортировка таблицы repair_order по убыванию цены с помощью DESC

```
masterskaya=# select * from repair_order order by cost desc;  
masterskaya=#
```

File

Actions

Edit

View

Help

id	client_id	contractor_id	type_of_work_id	date_created	date_completed	status	cost	name
3	3	3	2	2022-08-10	2022-08-30	completed	2500	Repair Gamer Computer
1	1	1	1	2022-11-20	2022-12-02	at work	1000	Repair Honor laptot
4	2	1	2	2022-08-20	2022-08-30	completed	1000	Repair office Computer
2	2	1	3	2022-10-10	2022-10-20	at work	500	Repair Xiaomi Telephone

(4 rows)

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File System

~

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Суммирование всех цен в таблице repair_order

```
masterskaya=# select sum(cost) from repair_order;  
sum  
-----  
5000  
(1 row)
```

Изменение данных

```
masterskaya=# select * from client;  
id | name | phone | email  
---+---+---+---  
1 | Veronika Petrovna | +79205642296 | veronika1243@gmail.com  
2 | Svetlana Pavlovna | +7920636881 | svetlana12521@mail.ru  
3 | Danil Nikitovich | +79204356633 | danilian@mail.ru  
(3 rows)  
  
masterskaya=# update client set phone = +79115672011 where id =2;  
UPDATE 1  
masterskaya=# select * from client;  
id | name | phone | email  
---+---+---+---  
1 | Veronika Petrovna | +79205642296 | veronika1243@gmail.com  
3 | Danil Nikitovich | +79204356633 | danilian@mail.ru  
2 | Svetlana Pavlovna | 79115672011 | svetlana12521@mail.ru  
(3 rows)  
  
masterskaya=#
```