

# **16. CREATE VIEW and PROCEDUREs in MySQL.**

**MySQL da VIEW va PROTSEDURA lar yaratish.**

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**VIEWS** – Ko‘p foydalanadigan so‘rovlarni virtual jadval sifatida saqlab qo‘yish uchun ishlataladi. Bazada **VIEW** dan bir nechtasi yaratilishi mumkin.

### **Yaratish:**

```
CREATE VIEW view_name  
AS
```

```
SELECT column_name1, column_name2, ...  
FROM table_name (JOIN table_name)  
WHERE <condition> (IN, LIKE, BETWEEN)  
GROUP BY column_name  
ORDER BY column_name (ASC | DESC)  
LIMIT number;
```

### **O‘chirish:**

```
DROP VIEW view_name;
```

**CREATE VIEW** talaba\_guruhi

**AS**

**SELECT** talabalar.ism, talabalar.familiya, talabalar.guruuh\_id, guruhlar.guruuh  
**FROM** talabalar **INNER JOIN** guruhlar  
**ON** talabalar.guruuh\_id = guruhlar.id

🔑 id	familiya	ism	t_sanasi	🔑 guruuh_id
5	Bekchanov	Asadbek	1997-03-29	3
34	Kamolova	Shohista	1999-02-13	1
2	Xabibullayev	Abrorbek	2000-08-04	1
1	Ismoilov	Abdulla	1998-02-24	7
26	Abdullayeva	Nilufar	1999-06-03	11
41	Tajiyeva	Umida	1999-10-25	13
39	Raximberganov	Temurbek	2001-10-05	5
43	O'rinnov	Xalilla	2000-01-10	(NULL)
31	Norimbetov	Ro'zimboy	2002-07-10	7
8	Sotliqov	Dastonbek	2004-08-22	(NULL)
9	Kuchkarov	Dilshodbek	1999-06-11	11
29	Abdullayeva	Orzigul	2002-09-07	12

**Talabalar**

🔑 id	📌 guruuh
1	911-21
2	911-23
3	912-22
4	912-21
5	921-21
6	931-23
7	932-20
8	951-21
9	951-22
10	951-23
11	961-20
12	971-20
13	971-22

**Guruhlar**

```
CREATE VIEW talaba_guruhi
```

```
AS
```

```
SELECT talabalar.ism, talabalar.familiya, talabalar.guruh_id, guruhlar.guruh  
FROM talabalar INNER JOIN guruhlar  
ON talabalar.guruh_id = guruhlar.id
```

The screenshot shows the HeidiSQL Portable interface. The left sidebar displays the database structure under 'MyDatabases\institut\talaba\_guruhi'. The 'talaba\_guruhi' schema is selected and highlighted in blue. The main pane contains the SQL code for creating the view:

```
1 CREATE VIEW talaba_guruhi  
2 AS  
3     SELECT talabalar.ism,  
4             talabalar.familiya,  
5             talabalar.guruh_id,  
6                 guruhlar.guruh  
7     FROM talabalar INNER JOIN guruhlar  
8     WHERE talabalar.guruh_id = guruhlar.id  
9  
10
```



ism	familiya	guruh_id	guruh
Abdulla	Ismoilov	7	932-20
Abrorbek	Xabibullayev	1	911-21
Asadbek	Bekchanov	3	912-22
Dilshodbek	Kuchkarov	11	961-20
Doniyor	Artikov	12	971-20
Nilufar	Abdullahayeva	11	961-20
Orzigul	Abdullahayeva	12	971-20
Ro'zimboy	Norimbetov	7	932-20
Shohista	Kamolova	1	911-21
Temur	Nurullayev	7	932-20
Temurbek	Raximberganov	5	921-21
Umida	Tajiyeva	13	971-22

Фильтр баз данных | Фильтр таблиц | ★ | Хост: 127.0.0.1 | База данных: institut | Представление: talaba\_guruhi | Данные | Запрос\*

Имя: **talaba\_guruhi** Владелец: root@localhost

Алгоритм:  UNDEFINED SQL security: Definer

MERGE

TEMP TABLE

Способы обновления:  Нет

CASCDED

LOCAL

Выберите выражение:

```
1 select `talabalar`.`ism` AS `ism`,  
2      `talabalar`.`familiya` AS `familiya`,  
3      `talabalar`.`guruh_id` AS `guruh_id`,  
4      `guruhlar`.`guruh` AS `guruh`  
5 from (`talabalar` join `guruhlar`)  
6 where `talabalar`.`guruh_id` = `guruhlar`.`id`
```

Фильтр баз д... Фильтр табл...

Хост: 127.0.0.1 База данных: institut Функция: hello\_world Запрос\* Запрос #2\*

- MyDatabases
- > information\_sc...
- > **institut**
- > itcenter
- > mydb
- > mysql
- > performance\_s...
- > supermarket
- > tatu\_tests
- > ubtuittest
- > universitet

```
1 SELECT * FROM talaba_guruhi
2 WHERE guruh = "961-20"
```

ism	familiya	guruh_id	guruh
Dilshodbek	Kuchkarov	11	961-20
Nilufar	Abdullayeva	11	961-20



Фильтр баз д | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Функция: hello\_world | Запрос\* | Запрос #2\* | Запрос #3\* |

1 SELECT \* FROM talabalar ORDER BY id

	id	familiya	ism	T_sanasi	guruh_id	shartnoma_id	bosqich_id
	1	Ismoilov	Abdulla	1998-02-24	7	2	2
	2	Habibullayev	Abror	2000-08-04	1	2	(NULL)
	5	Bekchanov	Asadbek	1997-03-29	3	1	4
	8	Sotliqov	Dastonbek	2004-08-22	(NULL)	2	2
	9	Kuchkarov	Dilshodbek	1999-06-11	11	2	(NULL)
	10	Artikov	Doniyor	2001-05-28	12	2	3
	12	Samandarov	Egamberdi	2000-12-03	(NULL)	2	3
	26	Abdullahayeva	Nilufar	1999-06-03	11	1	4
	29	Abdullahayeva	Orzигул	2002-09-07	12	1	1
	31	Norimbetov	Ro'zimboy	2002-07-10	7	1	4
	34	Kamolova	Shohista	1999-02-13	1	2	3
	37	Nurullayev	Temur	2002-09-25	7	2	4
	39	Raximberganov	Temurbek	2001-10-05	5	2	3
	41	Tajiyeva	Umida	1999-10-25	13	2	3
	43	O'rionov	Xalilla	2000-01-10	(NULL)	1	3



Фильтр баз д... Фильтр табл...

Хост: 127.0.0.1 База данных: institut Функция: hello\_world Запрос\* Запрос #2\* Запрос #3\*

MyDatabases	
>	information_sc...
> <b>institut</b>	160,0 KiB
bosqichlar	32,0 KiB
guruuhlar	32,0 KiB
shartnomalar	32,0 KiB
talabalar	48,0 KiB
talaba_guruhi	
uquituvchilar	16,0 KiB
> itcenter	
> mydb	
> mysql	
> performance_s...	
> supermarket	
> tatu_tests	
> ubtuittest	
> universitet	

```
1 SELECT * FROM talabalar ORDER BY id
```

```
2 /*
```

```
3 INSERT INTO talabalar(familiya, ism, T_sanasi, guruh_id, shartnoma_id, bosqich_id)
```

	id	familiya	ism	T_sanasi	guruh_id	shartnoma_id	bosqich_id
1	1	Ismoilov	Abdulla	1998-02-24	7	2	2
2	2	Habibullayev	Abror	2000-08-04	1	2	(NULL)
5	5	Bekchanov	Asadbek	1997-03-29	3	1	4
8	8	Sotliqov	Dastonbek	2004-08-22	(NULL)	2	2
9	9	Kuchkarov	Dilshodbek	1999-06-11	11	2	(NULL)
10	10	Artikov	Doniyor	2001-05-28	12	2	3
12	12	Samandarov	Egamberdi	2000-12-03	(NULL)	2	3
26	26	Abdullayeva	Nilufar	1999-06-03	11	1	4
29	29	Abdullayeva	Orzigel	2002-09-07	12	1	1
31	31	Norimbetov	Ro'zimboy	2002-07-10	7	1	4
34	34	Kamolova	Shohista	1999-02-13	1	2	3
37	37	Nurullayev	Temur	2002-09-25	7	2	4
39	39	Raximberganov	Temurbek	2001-10-05	5	2	3
41	41	Tajiyeva	Umida	1999-10-25	13	2	3
43	43	O'rionov	Xalilla	2000-01-10	(NULL)	1	3
44	44	Rahimboyev	Sanjar	2001-06-07	4	(NULL)	(NULL)



## MyDatabases

&gt; information\_schema

institut 160,0 KiB

bosqichlar 32,0 KiB

guruhan 32,0 KiB

shartnomalar 32,0 KiB

talabalar 48,0 KiB

talaba\_guruhi

uqituvchilar 16,0 KiB

&gt; itcenter

&gt; mydb

&gt; mysql

&gt; performance\_schema

&gt; supermarket

&gt; tatu\_tests

&gt; ubtuittest

&gt; universitet

## institut.talaba\_guruhi

Далее

КН

ism	familiya	guruh_id	guruh
Abdulla	Ismoilov	7	932-20
Abrorbek	Xabibullayev	1	911-21
Asadbek	Bekchanov	3	912-22
Dilshodbek	Kuchkarov	11	961-20
Doniyor	Artikov	12	971-20
Nilufar	Abdullahayeva	11	961-20
Orzigul	Abdullahayeva	12	971-20
Ro'zimboy	Norimbetov	7	932-20
Shohista	Kamolova	1	911-21
Temur	Nurullayev	7	932-20
Temurbek	Raximberganov	5	921-21
Umida	Tajiyeva	13	971-22
Sanjar	Rahimboyev	4	912-21

```
SELECT talabalar.ism,
       talabalar.familiya,
       talabalar.guruh_id,
       guruhan.guruh
  FROM talabalar INNER JOIN guruhan
 WHERE talabalar.guruh_id = guruhan.id
```

# VIEW ni o'chirish

The screenshot shows the HeidiSQL Portable interface. The title bar reads "MyDatabases\institut - HeidiSQL Portable 11.0.0.5958". The menu bar includes "Файл", "Редактировать", "Поиск", "Инструменты", "Переход", and "Помощь". The toolbar contains various icons for database management. The status bar indicates "Хост: 127.0.0.1" and "База данных: institut". There are four open tabs in the tab bar: "Функция: hello\_world", "Запрос\*", "Запрос #2\*", "Запрос #3\*", and "Запрос #4\*". A green "Donate" button is visible in the top right corner.

The left sidebar displays the database structure under "MyDatabases". The "institut" database is expanded, showing tables: "bosqichlar", "guruhlar", "shartnomalar", "talabalar", "talaba\_guruhi", and "uquituvchilar".

The main query editor window contains the following SQL command:

```
1 DROP VIEW talaba_guruhi
```

# VIEW ni o'chirish

The screenshot shows the HeidiSQL Portable interface. The title bar reads "MyDatabases\institut\ - HeidiSQL Portable 11.0.0.5958". The menu bar includes "Файл", "Редактировать", "Поиск", "Инструменты", "Переход", and "Помощь". The toolbar contains various icons for database management. The connection information is "Хост: 127.0.0.1" and "База данных: institut". The function "Функция: hello\_world" is selected. There are four open queries: "Запрос\*", "Запрос #2\*", "Запрос #3\*", and "Запрос #4\*". A green "Donate" button is in the top right. The left sidebar shows the database structure under "MyDatabases": "information\_sc...", "institut" (selected), "itcenter", "mydb", "mysql", "performance\_s...", "supermarket", "tatu\_tests", "ubtuittest", and "universitet". The "institut" database contains tables: "bosqichlar" (32,0 KiB), "guruuhlar" (32,0 KiB), "shartnomalar" (32,0 KiB), "talabalar" (48,0 KiB), and "uqituvchilar" (16,0 KiB). The main query editor window displays the SQL command:

```
1 DROP VIEW talaba_guruhi
```

**PROCEDUREs** – Saqlangan protseduralar deb ham yuritiladi.

Ko‘p foydalanadigan so‘rovlarni funksiya qilib saqlab qo‘yishda ishlatiladi.

Protsedura parametrlarga ham ega bo‘lishi mumkin.

**Yaratish:**

**DELIMITER //**

**CREATE PROCEDURE** procedure\_name(

**IN** parameter1 **datatype**,

**IN** parameter2 **datatype** ...

)

**BEGIN**

    /\* SELECT ... ; \*/

    /\* INSERT ... ; \*/

    /\* UPDATE ... ; \*/

    /\* DELETE ... ; \*/

**END //**

**DELIMITER ;**

**Ishlatilishi:**

**CALL** procedure\_name(value1, value2)

**O‘chirish:**

**DROP PROCEDURE** procedure\_name

Фильтр баз данных | Фильтр таблиц

```
1DELIMITER //
2CREATE PROCEDURE yosh_talabalar(
3    IN sana DATE
4)
5BEGIN
6    SELECT * FROM talabalar
7    WHERE t_sanasi >= sana;
8END //
9DELIMITER ;
```

MyDatabases
information_schema
institut
bosqichlar 32,0 KiB
guruhalr 32,0 KiB
shartnomalar 32,0 KiB
talabalar 48,0 KiB
uqituvchilar 16,0 KiB
yosh_talabalar
itcenter
mydb
mysql
performance_schema
supermarket
tatu_tests
ubtuittest
universitet

Фильтр баз данных Фильтр таблиц

Хост: 127.0.0.1 База данных: institut Процедура: yosh\_talabalar Запрос\*

MyDatabases

- information\_schema
- institut
  - bosqichlar 32,0 KiB
  - guruhiar 32,0 KiB
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uquituvchilar 16,0 KiB
  - yosh\_talabalar
- itcenter
- mydb
- mysql
- performance\_schema
- supermarket
- tatu\_tests
- ubtuittest
- universitet

Опции Параметры Код CREATE

Имя: yosh\_talabalar Владелец: root@localhost  
Комментарий:  
Тип: Процедура (не возвращает результат) Доступ: Contains SQL  
Возвращает: Безопасность: Definer  
 Детерминированная процедура

Тело процедуры:

```
1 BEGIN
2     SELECT * FROM talabalar
3     WHERE t_sanasi >= sana;
4 END
```

Помощь

Отмена

Сохранить

Выполнить процедуру(ы)...

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз данных | Фильтр таблиц

Хост: 127.0.0.1 | База данных: institut | Процедура: yosh\_talabalar | Запрос\* | Запрос #2\* |

MyDatabases	
>	information_schema
институт	160,0 KiB
bosqichlar	32,0 KiB
guruuhlar	32,0 KiB
shartnomalar	32,0 KiB
talabalar	48,0 KiB
uquituvchilar	16,0 KiB
yosh_talabalar	
>	itcenter
>	mydb
>	mysql
>	performance_schema
>	supermarket
>	tatu_tests
>	ubtuittest
>	universitet

```
1 CALL yosh_talabalar("2002-12-31")
```

2

3

4

5

6

talabalar (1r x 7c)						
	id	familiya	ism	T_sanasi	guruh_id	shartnoma_id
	8	Sotliqov	Dastonbek	2004-08-22	(NULL)	2

MyDatabases\institut - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз данных Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Запрос\* Запрос #2\* Запрос #3\*

**Donate**

**MyDatabases**

- information\_schema
- institut** 160,0 KiB
  - bosqichlar 32,0 KiB
  - guruuhlar 32,0 KiB
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uqituvchilar 16,0 KiB
  - yosh\_talabalar
- itcenter
- mydb
- mysql
- performance\_schema
- supermarket
- tatu\_tests
- ubtuittest
- universitet

```

1 -- SELECT * FROM uqituvchilar
2DELIMITER //
3CREATE PROCEDURE katta_uqituvchilar()
4BEGIN
5   SELECT * FROM uqituvchilar
6   WHERE lavozimi LIKE "%Katta%";
7END //
8DELIMITER ;

```

uqituvchilar (16r x 7c)

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otabek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847
74	Davletboyev Sardorbek	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998914872323
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
19	Aliyev Oybek	assistent o'qituvchi	Dasturiy injiniring	7,5	9 000 000,00	+998914568585
80	Yusupov Firnafas	Professor. Dotsent	Dasturiy injiniring	18,0	12 000 000,00	+998918956746
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
19	Abdullayev Anvar	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998994557557
26	Yulduz ... Alisher	assistent o'qituvchi	Axborot texnologiyalari	2,5	4 800 000,00	+998912547800

r8 : c12 (188 B) Подключено: 00:16 h MariaDB 10.3.22 Время работы: 00:34 h Серверное время: 17: Ожидание.

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз данных | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Процедура: katta\_uqituvchilar | Запрос\* | Запрос #2\* | Запрос #3\* |

MyDatabases	
>	information_schema
>  institut	160,0 KiB
>  bosqichlar	32,0 KiB
>  guruhlar	32,0 KiB
>  katta_uqituvchilar	
>  shartnomalar	32,0 KiB
>  talabalar	48,0 KiB
>  uqituvchilar	
>  yosh_talabalar	16,0 KiB
>  itcenter	
>  mydb	
>  mysql	
>  performance_schema	
>  supermarket	
>  tatu_tests	
>  ubtuittest	
>  universitet	

```
1 -- SELECT * FROM uqituvchilar
2 DELIMITER //
3 CREATE PROCEDURE katta_uqituvchilar()
4 BEGIN
5   SELECT * FROM uqituvchilar
6   WHERE lavozimi LIKE "%Katta%";
7 END //
8 DELIMITER ;
```



Фильтр баз данных | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Процедура: katta\_uqituvchilar | Запрос\* | Запрос #2\* | Запрос #3\* | Запрос #4\*

MyDatabases

- information\_schema
- institut
  - bosqichlar 32,0 KiB
  - guruuhlar 32,0 KiB
  - katta\_uqituvchilar**
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uqituvchilar
  - yosh\_talabalar
- itcenter
- mydb
- mysql
- performance\_schema
- supermarket
- tatu\_tests
- ubtuittest
- universitet

1 **CALL katta\_uqituvchilar()**

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
41	Sodiqov Mahmudjon	Katta o'qituvchi	Axborot xavfsizligi	6,0	7 200 000,00	+998918788898

Фильтр баз данных | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Запрос\* | Запрос #2\* | Запрос #3\* | Запрос #4\* | Запрос #5\*

```

1 -- SELECT * FROM talabalar;
2 DELIMITER $$ 
3 CREATE PROCEDURE edit_talaba(
4     IN yangi_ism VARCHAR(20),
5     IN yangi_familiya VARCHAR(20),
6     IN raqam INT
7 )
8 BEGIN
9     UPDATE talabalar
10    SET ism = yangi_ism, familiya = yangi_familiya
11   WHERE id = raqam;
12 END $$ 
13 DELIMITER ;

```

talabalar (16r x 7c)

	id	familiya	ism	T_sanasi	guruh_id	shartnoma_id	bosqich_id
1	Ismoilov	Abdulla	1998-02-24	7	2	2	
2	Xabibullayev	Abrorbek	2000-08-04	1	2	(NULL)	
5	Bekchanov	Asadbek	1997-03-29	3	1	4	
8	Sotliaov	Dastonbek	2004-08-22	(NULL)	2	2	

Фильтр баз данных | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Процедура: edit\_talaba | Запрос\* | Запрос #2\* | Запрос #3\* | Запрос #4\* | Запрос #5\* |

MyDatabases

- information\_schema
- institut
  - bosqichlar 32,0 KiB
  - edit\_talaba**
  - guruuhlar 32,0 KiB
  - katta\_uqituvchilar
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uqituvchilar 16,0 KiB
  - yosh\_talabalar
- itcenter
- mydb
- mysql
- performance\_schema
- supermarket
- tatu\_tests
- ubtuittest
- universitet

```
1 -- SELECT * FROM talabalar;
2 DELIMITER $$ 
3 CREATE PROCEDURE edit_talaba(
4     IN yangi_ism VARCHAR(20),
5     IN yangi_familiya VARCHAR(20),
6     IN raqam INT
7 )
8 BEGIN
9     UPDATE talabalar
10    SET ism = yangi_ism, familiya = yangi_familiya
11   WHERE id = raqam;
12 END $$ 
13 DELIMITER ;
```

MyDatabases\institut\edit\_talaba - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз данных Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Процедура: edit\_talaba Запрос\* Запрос #2\* Запрос #3\* Запрос #4\* Запрос #5\* Запрос #6\*

1 -- *SELECT \* FROM talabalar*  
2 **CALL edit\_talaba("Abror","Habibullayev",2)**

	<i>id</i>	<i>familiya</i>	<i>ism</i>	<i>T_sanasi</i>	<i>guruh_id</i>	<i>shartnoma_id</i>	<i>bosqich_id</i>
	1	Ismoilov	Abdulla	1998-02-24	7	2	2
	2	Xabibullayev	Abrorbek	2000-08-04	1	2	(NULL)
	5	Bekchanov	Asadbek	1997-03-29	3	1	4
	8	Sotliqov	Dastonbek	2004-08-22	(NULL)	2	2
	9	Kuchkarov	Dilshodbek	1999-06-11	11	2	(NULL)
	10	Artikov	Doniyor	2001-05-28	12	2	3
	12	Samandarov	Egamberdi	2000-12-03	(NULL)	2	3
	26	Abdullayeva	Nilufar	1999-06-03	11	1	4
	29	Abdullayeva	Orzigel	2002-09-07	12	1	1
	31	Norimbetov	Ro'zimboy	2002-07-10	7	1	4
	34	Kamolova	Shohista	1999-02-13	1	2	3
	37	Nurullayev	Temur	2002-09-25	7	2	4
	39	Raximberganov	Temurbek	2001-10-05	5	2	3
	41	Tajiyeva	Umida	1999-10-25	13	2	3
	43	O'rionov	Xalilla	2000-01-10	(NULL)	1	3
	44	Rahimboyev	Sanjar	2002-06-07	4	(NULL)	(NULL)

r2 : c43 (70 B) Подключено: 00:49 h MariaDB 10.3.22 Время работы: 01:08 h Серверное время: 18: Ожидание.

Фильтр баз данных | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Процедура: edit\_talaba | Запрос\* | Запрос #2\* | Запрос #3\* | Запрос #4\* | Запрос #5\* | Запрос #6\*

```
1 SELECT * FROM talabalar
2 -- CALL edit_talaba("Abror", "Habibullayev", 2)
```

**talabalar (16r x 7c)**

id	familiya	ism	T_sanasi	guruh_id	shartnoma_id	bosqich_id
1	Ismoilov	Abdulla	1998-02-24	7	2	2
2	Habibullayev	Abror	2000-08-04	1	2	(NULL)
5	Bekchanov	Asadbek	1997-03-29	3	1	4
8	Sotliqov	Dastonbek	2004-08-22	(NULL)	2	2
9	Kuchkarov	Dilshodbek	1999-06-11	11	2	(NULL)
10	Artikov	Doniyor	2001-05-28	12	2	3
12	Samandarov	Egamberdi	2000-12-03	(NULL)	2	3
26	Abdullayeva	Nilufar	1999-06-03	11	1	4
29	Abdullayeva	Orzigel	2002-09-07	12	1	1
31	Norimbetov	Ro'zimboy	2002-07-10	7	1	4
34	Kamolova	Shohista	1999-02-13	1	2	3
37	Nurullayev	Temur	2002-09-25	7	2	4
39	Raximberganov	Temurbek	2001-10-05	5	2	3
41	Tajiyeva	Umida	1999-10-25	13	2	3
43	O'rionov	Xalilla	2000-01-10	(NULL)	1	3
44	Rahimboyev	Sanjar	2002-06-07	4	(NULL)	(NULL)

**1-Topshiriq:** Uqituvchilar jadvali uchun **between\_oylik(a,b)** nomli 2 parametrli protsedura yarating, u oyligi a va b oralig'ida bo'lgan o'qituvchilarning ro'yxatini qaytarsin

The screenshot shows a HeidiSQL Portable interface with the following details:

- Left Panel:** Shows the database structure under "MyDatabases\institut\uqituvchilar\". The "uqituvchilar" table is selected, highlighted in blue.
- Toolbar:** Standard HeidiSQL tools for filtering, connecting, and executing queries.
- Query Editor:** Displays the SQL query:

```
1 SELECT * FROM uqituvchilar
2
```
- Result Grid:** A table titled "uqituvchilar (16r x 7c)" showing 16 rows of data with 7 columns. The columns are: tartib\_raqami, fio, lavozimi, kafedrasi, yillik\_staji, oyligi, and tel.
- Sample Data:** The first few rows of the result set are:

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otabek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847
74	Davletboyev Sardorbek	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998914872323
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
19	Aliyev Oybek	assistent o'qituvchi	Dasturiy injiniring	7,5	9 000 000,00	+998914568585
80	Yusupov Firnafas	Professor. Dotsent	Dasturiy injiniring	18,0	12 000 000,00	+998918956746
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
19	Abdullayev Anvar	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998994557557
86	Xaitboyev Azizbek	stajor o'qituvchi	Axborot xavfsizligi	0,5	4 800 000,00	+998913547889
56	Ismailov Shavkat	PhD. Dotsent	Telekommunikatsiya injiniringi	9,0	11 500 000,00	+998954872111
35	Jumaniyazov Fazliddin	Dotsent	Gumanitar va ijtimoiy fanlar	7,0	7 800 000,00	+998905743225
41	Sodiqov Mahmudjon	Katta o'qituvchi	Axborot xavfsizligi	6,0	7 200 000,00	+998918788898

MyDatabases\institut\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дан Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Запрос\* Запрос #6\* Запрос #7\*

Donate

MyDatabases

- information\_schema
- institut** 160,0 KiB
  - between\_oylik
  - bosqichlar 32,0 KiB
  - edit\_talaba
  - guruuhlar 32,0 KiB
  - katta\_uqituvchilar
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uqituvchilar 16,0 KiB
  - yosh\_talabalar
- itcenter
- mydb
- mysql
- performance\_schema
- supermarket
- tatu\_tests
- ubtuittest
- universitet

```
1 -- SELECT * FROM uqituvchilar
2 DELIMITER //
3 CREATE PROCEDURE between_oylik(
4     IN a INT,
5     IN b INT
6 )
7 BEGIN
8     SELECT * FROM uqituvchilar
9     WHERE oyligi BETWEEN a AND b;
10 END //
11 DELIMITER ;
12
```

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistant o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otobek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847
74	Davletboyev Sardorbek	assistant o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998914872323
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959



Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Процедура: between\_oylik | Запрос\* | Запрос #6\* | Запрос #7\*

MyDatabases

- > information\_schema
- < institut 160,0 KiB
  - between\_oylik**
  - bosqichlar 32,0 KiB
  - edit\_talaba 32,0 KiB
  - guruuhlar 32,0 KiB
  - katta\_uqituvchilar
  - shartnomalar 32,0 KiB
  - talabalar 48,0 KiB
  - uqituvchilar 16,0 KiB
  - yosh\_talabalar
- > itcenter
- > mydb
- > mysql
- > performance\_schema
- > supermarket
- > tatu\_tests
- > ubtuittest
- > universitet

1 **CALL between\_oylik(5000000,8000000)**

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
35	Jumaniyazov Fazliddin	Dotsent	Gumanitar va ijtimoiy fanlar	7,0	7 800 000,00	+998905743225
41	Sodiqov Mahmudjon	Katta o'qituvchi	Axborot xavfsizligi	6,0	7 200 000,00	+998918788898

**2-Topshiriq:** Uqituvchilar jadvali uchun, **uqituvchi\_kiritish(id, fio, lavozimi, kafedrasi, staji, oyligi, tel)** nomli 7 parametrli protsedura yarating, u o'qituvchilar jadvaliga yangi o'qituvchi kiritish vazifasini bajarsin

The screenshot shows a database interface with the following details:

- MyDatabases\institut\uqituvchilar\ - HeidiSQL Portable 11.0.0.5958**: The current database connection.
- Файл Редактировать Поиск Инструменты Переход Помощь**: The menu bar.
- Файл баз д Фильтр таблі**: The toolbar.
- Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос\***: The connection information and current table.
- 1 SELECT \* FROM uqituvchilar**: The SQL query entered in the query pane.
- 2**: The result set identifier.
- uqituvchilar (16r x 7c)**: The result set title.
- Table Data:**

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otabek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847
74	Davletboyev Sardorbek	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998914872323
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
19	Aliyev Oybek	assistent o'qituvchi	Dasturiy injiniring	7,5	9 000 000,00	+998914568585
80	Yusupov Firnafas	Professor. Dotsent	Dasturiy injiniring	18,0	12 000 000,00	+998918956746
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
19	Abdullayev Anvar	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998994557557
86	Xaitboyev Azizbek	stajor o'qituvchi	Axborot xavfsizligi	0,5	4 800 000,00	+998913547889
56	Ismailov Shavkat	PhD. Dotsent	Telekommunikatsiya injiniringi	9,0	11 500 000,00	+998954872111
35	Jumaniyazov Fazliddin	Dotsent	Gumanitar va ijtimoiy fanlar	7,0	7 800 000,00	+998905743225
41	Sodiqov Mahmudjon	Katta o'qituvchi	Axborot xavfsizligi	6,0	7 200 000,00	+998918788898



MyDatabases

- > information\_schema
- institut** 160,0 KiB
  - between\_oylik 32,0 KiB
  - bosqichlar 32,0 KiB
  - edit\_talaba 32,0 KiB
  - guruqlar 32,0 KiB
  - katta\_uqituvchilar 32,0 KiB
  - shartnomalar 48,0 KiB
  - talabalar 16,0 KiB
  - uqituvchilar
  - yosh\_talabalar
- > itcenter
- > mydb
- > mysql
- > performance\_schema
- > supermarket
- > tatu\_tests
- > ubtuittest
- > universitet

```

1 -- SELECT * FROM uqituvchilar
2DELIMITER //
3CREATE PROCEDURE uqituvchi_kiritish(
4  IN id INT, IN fio VARCHAR(50), IN lavozimi VARCHAR(50),
5  IN kafedrasi VARCHAR(50), IN staji FLOAT,
6  IN oyligi FLOAT, IN tel VARCHAR(20)
7)
8BEGIN
9  INSERT INTO uqituvchilar(tartib_raqami,fio,lavozimi,
10                           kafedrasi,yillik_staji,oyligi,tel)
11  VALUES (id,fio,lavozimi,kafedrasi,staji,oyligi,tel);
12END //
13DELIMITER ;
14

```

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otaybek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847

Фильтр баз дан

Фильтр таблиц



Хост: 127.0.0.1

База данных: institut

Процедура: uqituvchi\_kiritish

Запрос\*

Запрос #2\*

Запрос #3\*

Запрос #4\*



## MyDatabases

&gt; information\_schema

## institut 160,0 KiB

&gt; between\_oylik

&gt; bosqichlar 32,0 KiB

&gt; edit\_talaba

&gt; guruuhlar 32,0 KiB

&gt; katta\_uqituvchilar

&gt; shartnomalar 32,0 KiB

&gt; talabalar 48,0 KiB

&gt; uqituvchilar 16,0 KiB

&gt; yosh\_talabalar

&gt; itcenter

&gt; mydb

&gt; mysql

&gt; performance\_schema

&gt; supermarket

&gt; tatu\_tests

&gt; ubtuittest

&gt; universitet

```
1 CALL uqituvchi_kiritish
2 (
3     98, "Saidov Dilmurod", "katta o'qituvchi",
4     "Tabiiy fanlar", 8.0, 7800000, "+998975294949"
5 )
6
```

MyDatabases\institut - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз д Фильтр таблицы

Хост: 127.0.0.1 База данных: institut Процедура: uqituvchi\_kiritish Запрос\* Запрос #2\* Запрос #3\* Запрос #4\*

**1 SELECT \* FROM uqituvchilar**

tartib_raqami	fio	lavozimi	kafedrasi	yillik_staji	oyligi	tel
83	Sobirov Bahrombek	assistent o'qituvchi	Axborot xavfsizligi	6,0	5 400 000,00	+998995864533
31	Hujayev Otabek	PhD. Dotsent	Axborot texnologiyalari	9,5	12 500 000,00	+998916867847
74	Davletboyev Sardorbek	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998914872323
46	Yusupova Janar	Katta o'qituvchi	Dasturiy injiniring	7,0	8 500 000,00	+998905476585
3	Adambayeva Feruza	Katta o'qituvchi	Gumanitar va ijtimoiy fanlar	7,0	7 200 000,00	+998990965959
19	Aliyev Oybek	assistent o'qituvchi	Dasturiy injiniring	7,5	9 000 000,00	+998914568585
80	Yusupov Firnafas	Professor. Dotsent	Dasturiy injiniring	18,0	12 000 000,00	+998918956746
45	Husainov Islom	Katta o'qituvchi	Tabiiy fanlar	8,5	7 800 000,00	+998906881441
19	Abdullayev Anvar	assistent o'qituvchi	Axborot texnologiyalari	2,0	4 800 000,00	+998994557557
86	Xaitboyev Azizbek	stajor o'qituvchi	Axborot xavfsizligi	0,5	4 800 000,00	+998913547889
56	Ismailov Shavkat	PhD. Dotsent	Telekommunikatsiya injinir...	9,0	11 500 000,00	+998954872111
35	Jumaniyazov Fazliddin	Dotsent	Gumanitar va ijtimoiy fanlar	7,0	7 800 000,00	+998905743225
41	Sodiqov Mahmudjon	Katta o'qituvchi	Axborot xavfsizligi	6,0	7 200 000,00	+998918788898
92	Salayev Rahmonbergan	stajor o'qituvchi	Telekommunikatsiya injinir...	1,5	4 800 000,00	+998881186565
36	Hajiyeva Iroda	PhD. Dotsent	Gumanitar va ijtimoiy fanlar	10,0	11 500 000,00	+998981232525
17	Yo'ldoshev O'ktamboy	stajor o'qituvchi	Raqamli ta'lim texnologiyal...	1,0	4 800 000,00	+998914143223
98	Saidov Dilmurod	katta o'qituvchi	Tabiiy fanlar	8,0	7 800 000,00	+998975294949

r1 : c1 (26 B) Подключено: 00:15 h MariaDB 10.3.22 Время работы: 03:19 h Серверное время: 20: Ожидание.

A photograph of a classroom with red desks and chairs. Ten students are shown, all appearing to be asleep or resting their heads on their desks. They are of various ages and ethnicities, wearing casual clothing. The scene conveys a sense of exhaustion or lack of engagement.

SAVOLLAR?