

18. CREATE TRIGGERs in MySQL.

MySQL da TRIGGER lar yaratish.

ass. Baltayev Rustambek

TRIGGERS – Ma'lum bir amal yoki so'rovni avtomatik ravishda ishga tushiradigan, ma'lumotlar bazasidagi obyekt hisoblanadi.

TRIGGER ni o'rnatish orqali, ma'lum bir jadvalda "**INSERT**", "**UPDATE**" yoki "**DELETE**" amallari bajarilganda, unga javob sifatida belgilangan kod qatorlarini ishga tushirish mumkin.

Yaratish:

```
DELIMITER //
CREATE TRIGGER trigger_name
AFTER | BEFORE | INSERT | UPDATE | DELETE
ON table_name
FOR EACH ROW
BEGIN
    -- MySQL queries (INSERT, UPDATE, DELETE)
    IF <condition> THEN
        SET body... ;
    END IF;
END //
DELIMITER ;
```

O'chirish:

```
DROP TRIGGER trigger_name;
```

MyDatabases\institut\uqituvchilar - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз д. Фильтр табл. ★

Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос*

Donate

MyDatabases

- information_s... 176,0 KiB
- institut** 160,0 KiB
 - bosqichlar 32,0 KiB
 - guruuhlar 32,0 KiB
 - shartnomalar 32,0 KiB
 - talabalar 48,0 KiB
 - uqituvchilar** 16,0 KiB
- itcenter
- mydb
- mysql
- performance_...
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

institut.uqituvchilar: 17 строк (приблизительно)

| tartib_raqami | fio | lavozimi | kafedrasi | yillik_stagi | 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 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injiniringi | 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 texnologiyalari | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |



Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Триггер: uqituvchi_kiritish | Запрос*

```
1/* Uqituvchilar jadvali uchun shunday trigger yaratingki u
2jadvalga yangi o'qituvchi kiritganda, oyligi va yillik_staji
3manfiy qiymat bo'lса, musbat qiymatga o'zgartirish vazifasini bajarsin */
4DELIMITER //
5CREATE TRIGGER uqituvchi_kiritish
6BEFORE INSERT
7ON uqituvchilar
8FOR EACH ROW
9BEGIN
10    if NEW.oyligi < 0 OR NEW.yillik_staji < 0 then
11        SET NEW.oyligi = ABS(NEW.oyligi);
12        SET NEW.yillik_staji = ABS(NEW.yillik_staji);
13    END if;
14END //
15DELIMITER ;
16
17
18
```

Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Триггер: uqituvchi_kiritish | Запрос*

Опции Код CREATE

Имя: uqituvchi_kiritish Владелец: root@localhost

На таблице: uqituvchilar

Событие: BEFORE INSERT

Выражение триггера: (например, "SET NEW.columnA = TRIM(OLD.columnA)"

```
1 BEGIN
2     if NEW.oyligi < 0 OR NEW.yillik_staji < 0 then
3         SET NEW.oyligi = ABS(NEW.oyligi);
4         SET NEW.yillik_staji = ABS(NEW.yillik_staji);
5     END if;
6 END
```

Помощь Отмена Сохранить



Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Триггер: uqituvchi_kiritish | Запрос* | Запрос #2*

MyDatabases

- information_schema
- institut
 - bosqichlar 32,0 KiB
 - guruuhlar 32,0 KiB
 - shartnomalar 32,0 KiB
 - talabalar 48,0 KiB
 - uqituvchilar 16,0 KiB
- uqituvchi_kiritish

- itcenter
- mydb
- mysql
- performance_sche...
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

```
1 -- Yangi o'qituvchi kiritib ko'ramiz
2 INSERT INTO uqituvchilar(tartib_raqami,fio,yillik_stoji,oyligi)
3 VALUES (99, "Dadaxanov Muhammad", -1.5, -5400000)
```

MyDatabases\institut\uqituvchilar - 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 | Таблица: uqituvchilar | Данные | Запрос* | Запрос #2* | [Donate](#)

institut.uqituvchilar: 18 строк (приблизительно)

| 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 |
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| 45 | Husainov Islom | Katta o'qituvchi | Tabiiy fanlar | 8,5 | 7 800 000,00 | +998906881441 |
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| 41 | Sodiqov Mahmudjon | Katta o'qituvchi | Axborot xavfsizligi | 6,0 | 7 200 000,00 | +998918788898 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injin... | 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'lodoshev O'ktamboy | stajor o'qituvchi | Raqamli ta'lim texnologiy... | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |
| 99 | Dadaxanov Muhammad | (NULL) | (NULL) | 1,5 | 5 400 000,00 | (NULL) |

Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Триггер: uqituvchi_kiritish | Запрос*

| 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 |
| > | itcenter |
| > | mydb |
| > | mysql |
| > | performance_sche... |
| > | proba |
| > | supermarket |
| > | tatu_tests |
| > | ubtuittest |
| > | universitet |

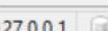
```
1/* Triggerni o'chiramiz */
2DROP TRIGGER uqituvchi_kiritish;
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
```



Donate

Фильтр баз дат

Фильтр таблиц



Хост: 127.0.0.1

База данных: institut

Запрос*

Запрос #2*



MyDatabases



information_sche...

176,0 KiB



institut

160,0 KiB



bosqichlar

32,0 KiB



guruuhlar

32,0 KiB



shartnomalar

32,0 KiB



talabalar

48,0 KiB



uqituvchilar

16,0 KiB



itcenter



mydb



mysql



performance_sche...



proba



supermarket



tatu_tests



ubtuittest



universitet

```
1/* Talabalar jadvaliga talaba_yangilash nomli trigger yozing,  
2 u jadvalda biror talabaning ma'lumotiga o'zgartirish kiritilganda,  
3 yangilanish_vaqtini ustunini bugunki sana va vaqtga o'zgartirsin */
```

MyDatabases\institut\talabalar\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз д... Фильтр табл.

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос*

institut.talabalar: 16 строк (приблизительно)

id familiya ism T_sanasi guruh_id shartnoma_id bosqich_id

| | id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id |
|----|---------------|------------|------------|----------|----------|--------------|------------|
| 1 | Ismoilov | Abdulla | 1998-02-24 | 7 | 2 | 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 | 2001-06-07 | 4 | (NULL) | (NULL) | |

Подключено: 02:04 h MariaDB 10.3.22 Время работы: 02:06 h Серверное время: 13: Ожидание.

MyDatabases\institut\talabalar\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз д... Фильтр табл. ★

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос*

Donate

MyDatabases

information_s...
institut
bosqichlar 32,0 KiB
guruuhlar 32,0 KiB
shartnomalar 32,0 KiB
talabalar 48,0 KiB
uquituvchilar 16,0 KiB
itcenter
mydb
mysql
performance_...
proba
supermarket
tatu_tests
ubtuittest
universitet

-- Talabalar jadvaliga yangi ustun qo'shamiz
/* ALTER TABLE talabalar
ADD yangilanish_vaqt DATETIME; */
SELECT * FROM talabalar

talabalar (16r x 8c)

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

Подключено: 02:10 h MariaDB 10.3.22 Время работы: 02:12 h Серверное время: 13: Ожидание.



Фильтр баз дат

Фильтр таблиц



Хост: 127.0.0.1

База данных: institut

Триггер: talaba_yangilash

Запрос*

Запрос #2*



MyDatabases

- information_sche...
- institut
 - bosqichlar 32,0 KiB
 - guruhiar 32,0 KiB
 - shartnomalar 32,0 KiB
 - talabalar 48,0 KiB
- talaba_yangilash
 - uquituvchilar 16,0 KiB
- itcenter
- mydb
- mysql
- performance_sch...
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

```
1/* Talabalar jadvaliga talaba_yangilash nomli trigger yozing,  
2 u jadvalda biror talabaning ma'lumotiga o'zgartirish kiritilganda,  
3 yangilanish_vaqtini ustunini bugunki sana va vaqtga o'zgartirsin */  
4DELIMITER //  
5CREATE TRIGGER talaba_yangilash  
6BEFORE UPDATE  
7ON talabalar  
8FOR EACH ROW  
9BEGIN  
10    SET NEW.yangilanish_vaqt = NOW();  
11END //  
12DELIMITER ;
```

MyDatabases\institut\talabalar\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дат Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2* Запрос #3* Donate

1 -- SELECT * FROM talabalar;
2 UPDATE talabalar
3 SET ism = "Abdulloh"
4 WHERE id = 1

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

r4 : c13 (81 B) Подключено: 00:27 h MariaDB 10.3.22 Время работы: 02:56 h Серверное время: 14: Ожидание.

MyDatabases\institut\talabalar - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дат Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2* Запрос #3* Donate

1 -- SELECT * FROM talabalar;
2 UPDATE talabalar
3 SET guruh_id = 1
4 WHERE guruh_id IS NULL

talabalar (16r x 8c)

| id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqtি |
|----|---------------|------------|------------|----------|--------------|------------|---------------------|
| 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2022-11-06 14:26:47 |
| 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) |
| 5 | Bekchanov | Asadbek | 1997-03-29 | 3 | 1 | 4 | (NULL) |
| 8 | Sotliqov | Dastonbek | 2004-08-22 | (NULL) | 2 | 2 | (NULL) |
| 9 | Kuchkarov | Dilshodbek | 1999-06-11 | 11 | 2 | (NULL) | (NULL) |
| 10 | Artikov | Doniyor | 2001-05-28 | 12 | 2 | 3 | (NULL) |
| 12 | Samandarov | Egamberdi | 2000-12-03 | (NULL) | 2 | 3 | (NULL) |
| 26 | Abdullayeva | Nilufar | 1999-06-03 | 11 | 1 | 4 | (NULL) |
| 29 | Abdullayeva | Orzigel | 2002-09-07 | 12 | 1 | 1 | (NULL) |
| 31 | Norimbetov | Ro'zimboy | 2002-07-10 | 7 | 1 | 4 | (NULL) |
| 34 | Kamolova | Shohista | 1999-02-13 | 1 | 2 | 3 | (NULL) |
| 37 | Nurullayev | Temur | 2002-09-25 | 7 | 2 | 4 | (NULL) |
| 39 | Davimbergenov | Temurbek | 2001-10-05 | 5 | 2 | 3 | (NULL) |

r4 : c23 (87 B) Подключено: 00:33 h MariaDB 10.3.22 Время работы: 03:03 h Серверное время: 14: Ожидание.

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Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз дат Фильтр таблиц

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2* Запрос #3*

1 **SELECT * FROM talabalar;**
2 /*
3 UPDATE talabalar
4 SET guruh_id = 1
5 WHERE guruh_id IS NULL */

talabalar (16r x 8c)

| | id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqtি |
|----|----|---------------|------------|------------|----------|--------------|------------|---------------------|
| 1 | 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2022-11-06 14:26:47 |
| 2 | 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) |
| 5 | 5 | Bekchanov | Asadbek | 1997-03-29 | 3 | 1 | 4 | (NULL) |
| 8 | 8 | Sotliqov | Dastonbek | 2004-08-22 | 1 | 2 | 2 | 2022-11-06 14:28:52 |
| 9 | 9 | Kuchkarov | Dilshodbek | 1999-06-11 | 11 | 2 | (NULL) | (NULL) |
| 10 | 10 | Artikov | Doniyor | 2001-05-28 | 12 | 2 | 3 | (NULL) |
| 12 | 12 | Samandarov | Egamberdi | 2000-12-03 | 1 | 2 | 3 | 2022-11-06 14:28:52 |
| 26 | 26 | Abdullayeva | Nilufar | 1999-06-03 | 11 | 1 | 4 | (NULL) |
| 29 | 29 | Abdullayeva | Orzigel | 2002-09-07 | 12 | 1 | 1 | (NULL) |
| 31 | 31 | Norimbetov | Ro'zimboy | 2002-07-10 | 7 | 1 | 4 | (NULL) |
| 34 | 34 | Kamolova | Shohista | 1999-02-13 | 1 | 2 | 3 | (NULL) |
| 37 | 37 | Nurullayev | Temur | 2002-09-25 | 7 | 2 | 4 | (NULL) |
| 39 | 39 | Davimbergenov | Temurbek | 2001-10-05 | 5 | 2 | 3 | (NULL) |

Подключено: 00:35 h MariaDB 10.3.22 Время работы: 03:04 h Серверное время: 14: Ожидание.

Фильтр баз дат Фильтр таблиц ★

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2*

```
1/* Talabalar jadvalidan, talaba o'chirilganda, deleted_students nomli
2 boshqa jadvalga o'chirilgan talabaning ma'lumotlarini
3 kiritib boruvchi trigger yarating */
4
5
```

| MyDatabases | |
|-----------------------|---------------------|
| > | information_sche... |
| institut | 160,0 KiB |
| bosqichlar | 32,0 KiB |
| guruuhlar | 32,0 KiB |
| shartnomalar | 32,0 KiB |
| talabalar | 48,0 KiB |
| talaba_yangilash | |
| uquituvchilar | 16,0 KiB |
| > itcenter | |
| > mydb | |
| > mysql | |
| > performance_sche... | |
| > proba | |
| > supermarket | |
| > tatu_tests | |
| > ubtuittest | |
| > universitet | |

Фильтр баз дат Фильтр таблиц

Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2* Запрос #3*

```

1 -- deleted_students nomli yangi jadval yaratamiz
2 -- SELECT * FROM talabalar
3 CREATE TABLE deleted_students(
4     id INT,
5     familiya VARCHAR(30),
6     ism VARCHAR(30),
7     t_sanasi DATE,
8     guruh_id INT,
9     shartnoma_id INT,
10    bosqich_id INT
11 )

```

talabalar (16r x 8c)

| | id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqtি |
|---|--------------|----------|------------|----------|----------|--------------|------------|---------------------|
| 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2 | 2022-11-06 14:26:47 |
| 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) | |

Фильтр баз дан | Фильтр таблиц | Хост: 127.0.0.1 | База данных: institut | Таблица: deleted_students | Данные | Запрос* | Запрос #2* | Запрос #3*

| MyDatabases | |
|--|--------------------|
| > | information_schema |
| >  institut | 176,0 KiB |
| > bosqichlar | 32,0 KiB |
| deleted_students | 16,0 KiB |
| guruuhlar | 32,0 KiB |
| shartnomalar | 32,0 KiB |
| talabalar | 48,0 KiB |
|  talaba_yangilash | |
| uquituvchilar | 16,0 KiB |
| > itcenter | |
| > mydb | |
| > mysql | |
| > performance_schema | |
| > proba | |
| > supermarket | |
| > tatu_tests | |
| > ubtuittest | |
| > universitet | |

```
1 -- deleted_students nomli yangi jadval yaratamiz
2 -- SELECT * FROM talabalar
3 CREATE TABLE deleted_students(
4   id INT,
5   familiya VARCHAR(30),
6   ism VARCHAR(30),
7   t_sanasi DATE,
8   guruh_id INT,
9   shartnoma_id INT,
10  bosqich_id INT
11 )
```

Файл Редактировать Поиск Инструменты Переход Помощь

[Donate](#)

Фильтр баз дан | Фильтр таблиц

Хост: 127.0.0.1 | База данных: institut | Таблица: deleted_students | Данные | Запрос* | Запрос #2* | Запрос #3*

Далее

Показать все

Сортировка

Столбцы (7/7) | Фильтр

| MyDatabases | |
|-------------------------|--------------------|
| > | information_schema |
| institut | 176,0 KiB |
| bosqichlar | 32,0 KiB |
| deleted_students | 16,0 KiB |
| guruhalar | 32,0 KiB |
| shartnomalar | 32,0 KiB |
| talabalar | 48,0 KiB |
| talaba_yangilash | |
| uquituvchilar | 16,0 KiB |
| > itcenter | |
| > mydb | |
| > mysql | |
| > performance_schema | |
| > proba | |
| > supermarket | |
| > tatu_tests | |
| > ubtuittest | |
| > universitet | |

| id | familiya | ism | t_sanasi | guruh_id | shartnoma_id | bosqich_id |
|-----------|-----------------|------------|-----------------|-----------------|---------------------|-------------------|
|-----------|-----------------|------------|-----------------|-----------------|---------------------|-------------------|

| | | | | | | |
|--|--|--|--|--|--|--|
| | | | | | | |
|--|--|--|--|--|--|--|

MyDatabases\institut - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дан Фильтр таблица ★ Хост: 127.0.0.1 База данных: institut Триgger: talaba_saqlash Запрос* Запрос #2* Запрос #3* ×

Donate

MyDatabases

information_schema

institut 176,0 KiB

- bosqichlar 32,0 KiB
- deleted_students 16,0 KiB
- guruuhlar 32,0 KiB
- shartnomalar 32,0 KiB
- talabalar 48,0 KiB
- talaba_yangilash
- uquvvchilar 16,0 KiB

itcenter

mydb

mysql

performance_schema

proba

supermarket

tatu_tests

ubtuittest

universitet

```
1/* Talabalar jadvalidan, talaba o'chirilganda, deleted_students nomli  
2boshqa jadvalga o'chirilgan talabaning ma'lumotlarini,  
3kiritib boruvchi trigger yarating */  
4DELIMITER //  
5CREATE TRIGGER talaba_saqlash  
6BEFORE DELETE  
7ON talabalar  
8FOR EACH ROW  
9BEGIN  
10    INSERT INTO deleted_students  
11        VALUES (OLD.id, OLD.familiya, OLD.ism, OLD.t_sanasi, OLD.guruh_id,  
12                  OLD.shartnoma_id, OLD.bosqich_id);  
13END //  
14DELIMITER ;
```

talabalar (14r x 8c)

| id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqt |
|----|--------------|----------|------------|----------|--------------|------------|---------------------|
| 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2022-11-06 14:26:47 |
| 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) |

r14 : c12 (420 B) Подключено: 00:50 h MariaDB 10.3.22 Время работы: 04:40 h Серверное время: 16: Ожидание.

MyDatabases\institut\talaba_saqlash\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дан Фильтр таблица ★ Хост: 127.0.0.1 База данных: institut Триггер: talaba_saqlash Запрос* Запрос #2* Запрос #3* ×

Donation

MyDatabases

information_schema

institut (selected)
bosqichlar 32,0 KiB
deleted_students 16,0 KiB
guruuhlar 32,0 KiB
shartnomalar 32,0 KiB
talabalar 48,0 KiB
talaba_saqlash (selected)
talaba_yangilash
uquituvchilar 16,0 KiB

itcenter
mydb
mysql
performance_schema
proba
supermarket
tatu_tests
ubtuittest
universitet

```
1/* Talabalar jadvalidan, talaba o'chirilganda, deleted_students nomli
2boshqa jadvalga o'chirilgan talabaning ma'lumotlarini,
3kiritib boruvchi trigger yarating */
4DELIMITER //
5CREATE TRIGGER talaba_saqlash
6BEFORE DELETE
7ON talabalar
8FOR EACH ROW
9BEGIN
10    INSERT INTO deleted_students
11        VALUES (OLD.id, OLD.familiya, OLD.ism, OLD.t_sanasi, OLD.guruh_id,
12                OLD.shartnoma_id, OLD.bosqich_id);
13END //
14DELIMITER ;
```

Подключено: 00:53 h MariaDB 10.3.22 Время работы: 04:43 h Серверное время: 16: Ожидание.

MyDatabases\institut - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дан Фильтр таблица

Хост: 127.0.0.1 База данных: institut Запрос* Запрос #2* Запрос #3* Запрос #4*

Donate

1 -- SELECT * FROM talabalar
2 DELETE FROM talabalar WHERE id BETWEEN 3 AND 8

| | id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqtি |
|--|----|---------------|------------|------------|----------|--------------|------------|---------------------|
| | 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2022-11-06 14:26:47 |
| | 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) |
| | 5 | Bekchanov | Asadbek | 1997-03-29 | 3 | 1 | 4 | (NULL) |
| | 8 | Sotliqov | Dastonbek | 2004-08-22 | 1 | 2 | 2 | 2022-11-06 14:28:52 |
| | 9 | Kuchkarov | Dilshodbek | 1999-06-11 | 11 | 2 | (NULL) | (NULL) |
| | 10 | Artikov | Doniyor | 2001-05-28 | 12 | 2 | 3 | (NULL) |
| | 12 | Samandarov | Egamberdi | 2000-12-03 | 1 | 2 | 3 | 2022-11-06 14:28:52 |
| | 26 | Abdullayeva | Nilufar | 1999-06-03 | 11 | 1 | 4 | (NULL) |
| | 29 | Abdullayeva | Orzigel | 2002-09-07 | 12 | 1 | 1 | (NULL) |
| | 31 | Norimbetov | Ro'zimboy | 2002-07-10 | 7 | 1 | 4 | (NULL) |
| | 34 | Kamolova | Shohista | 1999-02-13 | 1 | 2 | 3 | (NULL) |
| | 37 | Nurullayev | Temur | 2002-09-25 | 7 | 2 | 4 | (NULL) |
| | 39 | Raximberganov | Temurbek | 2001-10-05 | 5 | 2 | 3 | (NULL) |
| | 41 | Taiyev | Umida | 1000-10-25 | 13 | 2 | 3 | (NULL) |

Подключено: 00:19 h MariaDB 10.3.22 Время работы: 04:10 h Серверное время: 15: Ожидание.

MyDatabases\institut\talabalar\ - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз дан Фильтр таблица ★ Хост: 127.0.0.1 База данных: institut Таблица: talabalar Данные Запрос* Запрос #2* × Запрос #3* × Запрос #4* ×

Donate

MyDatabases

information_schema

institut 176,0 KiB

bosqichlar 32,0 KiB

deleted_students 16,0 KiB

guruhalar 32,0 KiB

shartnomalar 32,0 KiB

talabalar 48,0 KiB

talaba_saqlash

talaba_yangilash

uqituvchilar 16,0 KiB

itcenter

mydb

mysql

performance_schema

proba

supermarket

tatu_tests

ubtuittest

universitet

institut.talabalar: 14 строк (приблизительно)

Далее Показать все Сортировка Столбцы (8/8) Фильтр

| | id | familiya | ism | T_sanasi | guruh_id | shartnoma_id | bosqich_id | yangilanish_vaqt |
|--|----|---------------|------------|------------|----------|--------------|------------|---------------------|
| | 1 | Ismoilov | Abdulloh | 1998-02-24 | 7 | 2 | 2 | 2022-11-06 14:26:47 |
| | 2 | Habibullayev | Abror | 2000-08-04 | 1 | 2 | (NULL) | (NULL) |
| | 9 | Kuchkarov | Dilshodbek | 1999-06-11 | 11 | 2 | (NULL) | (NULL) |
| | 10 | Artikov | Doniyor | 2001-05-28 | 12 | 2 | 3 | (NULL) |
| | 12 | Samandarov | Egamberdi | 2000-12-03 | 1 | 2 | 3 | 2022-11-06 14:28:52 |
| | 26 | Abdullayeva | Nilufar | 1999-06-03 | 11 | 1 | 4 | (NULL) |
| | 29 | Abdullayeva | Orzigel | 2002-09-07 | 12 | 1 | 1 | (NULL) |
| | 31 | Norimbetov | Ro'zimboy | 2002-07-10 | 7 | 1 | 4 | (NULL) |
| | 34 | Kamolova | Shohista | 1999-02-13 | 1 | 2 | 3 | (NULL) |
| | 37 | Nurullayev | Temur | 2002-09-25 | 7 | 2 | 4 | (NULL) |
| | 39 | Raximberganov | Temurbek | 2001-10-05 | 5 | 2 | 3 | (NULL) |
| | 41 | Tajiyeva | Umida | 1999-10-25 | 13 | 2 | 3 | (NULL) |
| | 43 | O'rionov | Xalilla | 2000-01-10 | 1 | 1 | 3 | 2022-11-06 14:28:52 |
| | 44 | Rahimboyev | Sanjar | 2001-06-07 | 4 | (NULL) | (NULL) | (NULL) |

Подключено: 00:21 h MariaDB 10.3.22 Время работы: 04:12 h Серверное время: 15: Ожидание.

Файл Редактировать Поиск Инструменты Переход Помощь

Donate



Фильтр баз дан | Фильтр таблиц | ★ | Хост: 127.0.0.1 | База данных: institut | Таблица: deleted_students | Данные | Запрос* | Запрос #2* | Запрос #3* | Запрос #4* |

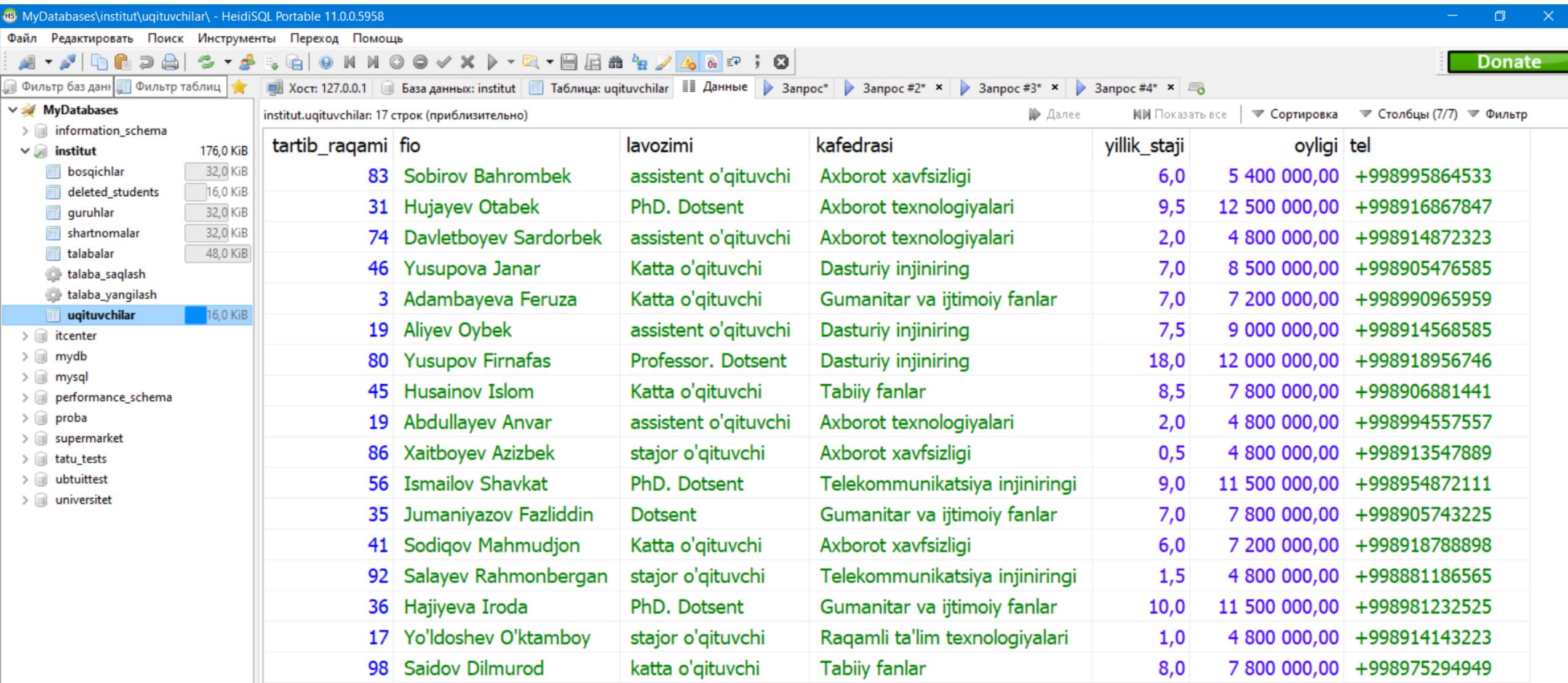
MyDatabases | Institut.deleted_students: 2 строк (приблизительно) | ► Далее | Показать все | Сортировка | Столбцы (7/7) | Фильтр

| MyDatabases |
|----------------------------------|
| information_schema |
| institut 176,0 KiB |
| bosqichlar 32,0 KiB |
| deleted_students 16,0 KiB |
| guruqlar 32,0 KiB |
| shartnomalar 32,0 KiB |
| talabalar 48,0 KiB |
| talaba_saqlash |
| talaba_yangilash |
| uquituvchilar 16,0 KiB |
| itcenter |
| mydb |
| mysql |
| performance_schema |
| proba |
| supermarket |
| tatu_tests |
| ubtuittest |
| universitet |

| id | familiya | ism | t_sanasi | guruh_id | shartnoma_id | bosqich_id |
|----|-----------|-----------|------------|----------|--------------|------------|
| 5 | Bekchanov | Asadbek | 1997-03-29 | 3 | 1 | 4 |
| 8 | Sotliqov | Dastonbek | 2004-08-22 | | 2 | 2 |

1-Topshiriq: yangilanishlar(tartib_raqami, fio, lavozimi, kafedrasi, yillik_staji, oyligi, tel)
 nomli jadval yarating, so'ng **uqituvchilar** jadvalida **UPDATE** buyrug'i bajarilganda, o'zgartirish kiritilgan o'qituvchilarni, o'zgarishdan oldingi ma'lumotlarini **yangilanishlar** jadvaliga kiritib boruvchi **update_teachers** nomli trigger yarating.

MyDatabases\institut\uqituvchilar - HeidiSQL Portable 11.0.0.5958



Файл Редактировать Поиск Инструменты Переход Помощь

Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос* Запрос #2* Запрос #3* Запрос #4*

MyDatabases

- information_schema
- institut
 - bosqichlar
 - deleted_students
 - guruuhlar
 - shartnomalar
 - talabalar
 - talaba_saqlash
 - talaba_yangilash
 - uqituvchilar**
- itcenter
- mydb
- mysql
- performance_schema
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

176,0 KiB

16,0 KiB

32,0 KiB

16,0 KiB

32,0 KiB

32,0 KiB

48,0 KiB

16,0 KiB

institut.uqituvchilar: 17 строк (приблизительно)

| 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 Otabek | 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 |
| 19 | Aliyev Oybek | assistant 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 | assistant 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 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injiniringi | 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 texnologiyalari | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |

Donate

Фильтр баз данных | Фильтр таблиц | ★ | Хост: 127.0.0.1 | База данных: institut | Таблица: yangilanishlar | Данные | Запрос*

| MyDatabases | |
|----------------------|--------------------|
| > | information_schema |
| институт | 192,0 KiB |
| bosqichlar | 32,0 KiB |
| deleted_students | 16,0 KiB |
| guruhi | 32,0 KiB |
| shartnomalar | 32,0 KiB |
| talabalar | 48,0 KiB |
| talaba_saqlash | |
| talaba_yangilash | |
| uquituvchilar | 16,0 KiB |
| yangilanishlar | 16,0 KiB |
| > itcenter | |
| > mydb | |
| > mysql | |
| > performance_schema | |
| > proba | |
| > supermarket | |
| > tatu_tests | |
| > ubtuittest | |
| > universitet | |

```
1 CREATE TABLE yangilanishlar(
2   tartib_raqami INT,
3   fio VARCHAR(50),
4   lavozimi VARCHAR(50),
5   kafedrasi VARCHAR(50),
6   yillik_staji FLOAT,
7   oyligi DOUBLE,
8   tel VARCHAR(20)
9 )
10
```

Фильтр баз данн
Фильтр таблиц ★

```
1 DELIMITER //
2 CREATE TRIGGER update_teachers
3 BEFORE UPDATE
4 ON uqituvchilar
5 FOR EACH ROW
6 BEGIN
7     INSERT INTO yangilanishlar
8     VALUES (OLD.tartib_raqami, OLD.fio, OLD.lavozimi, OLD.kafedrasi,
9             OLD.yillik_staji, OLD.oyligi, OLD.tel);
10 END //
11 DELIMITER ;
12
```

| MyDatabases | |
|----------------------|-----------|
| > information_schema | |
| > institut | 192,0 KiB |
| bosqichlar | 32,0 KiB |
| deleted_students | 16,0 KiB |
| guruqlar | 32,0 KiB |
| shartnomalar | 32,0 KiB |
| talabalar | 48,0 KiB |
| talaba_saqlash | |
| talaba_yangilash | |
| update_teachers | |
| uqituvchilar | 16,0 KiB |
| yangilanishlar | 16,0 KiB |
| > itcenter | |
| > mydb | |
| > mysql | |
| > performance_schema | |
| > proba | |
| > supermarket | |
| > tatu_tests | |
| > ubtuittest | |
| > universitet | |

Файл Редактировать Поиск Инструменты Переход Помощь

Donate

Фильтр баз данных Фильтр таблиц Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос* Запрос #2* Запрос #3*

| MyDatabases | |
|-------------|---------------------------|
| > | information_schema |
| <-- | institut 192,0 KiB |
| > | bosqichlar 32,0 KiB |
| > | deleted_students 16,0 KiB |
| > | guruqlar 32,0 KiB |
| > | shartnomalar 32,0 KiB |
| > | talabalar 48,0 KiB |
| > | talaba_saqlash |
| > | talaba_yangilash |
| > | update_teachers |
| > | uqituvchilar 16,0 KiB |
| > | yangilanishlar 16,0 KiB |
| > | itcenter |
| > | mydb |
| > | mysql |
| > | performance_schema |
| > | proba |
| > | supermarket |
| > | tatu_tests |
| > | ubtuittest |
| > | universitet |

```
1 UPDATE uqituvchilar
2 SET oyligi = 5800000
3 WHERE tartib_naqami=83
```

MyDatabases\institut\uqituvchilar - 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 Таблица: uqituvchilar Данные Запрос* Запрос #2* Запрос #3* Служебные

Donate

MyDatabases

- information_schema
- institut** 192,0 KiB
 - bosqichlar 32,0 KiB
 - deleted_students 16,0 KiB
 - guruhi
 - shartnomalar 32,0 KiB
 - talabalar
 - talaba_saqlash
 - talaba_yangilash
 - update_teachers
 - uqituvchilar** 16,0 KiB
 - yangilanishlar 16,0 KiB
- itcenter
- mydb
- mysql
- performance_schema
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

institut.uqituvchilar: 17 строк (приблизительно)

| tartib_raqami | fio | lavozimi | kafedrasi | yillik_stagi | oyligi | tel |
|---------------|-----------------------|----------------------|--------------------------------|--------------|---------------|---------------|
| 83 | Sobirov Bahrombek | assistant o'qituvchi | Axborot xavfsizligi | 6,0 | 5 800 000,00 | +998995864533 |
| 31 | Hujayev Otabek | 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 |
| 19 | Aliyev Oybek | assistant 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 | assistant 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 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injiniringi | 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 texnologiyalari | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |

Подключено: 01:40 h | MariaDB 10.3.22 | Время работы: 05:31 h | Серверное время: 16: Ожидание.



Фильтр баз данных | Фильтр таблиц

Хост: 127.0.0.1 | База данных: institut | Таблица: yangilanishlar | Данные | Запрос* | Запрос #2* | Запрос #3*

| institut.yangilanishlar: 1 строк (приблизительно) | | | | | | | ▶ Далее | Показать все | Сортировка | Столбцы (7/7) | Фильтр |
|---|-------------------|----------------------|---------------------|--------------|-----------|---------------|---------|--------------|------------|---------------|--------|
| tartib_raqami | fio | lavozimi | kafedrasi | yillik_staji | oyligi | tel | | | | | |
| 83 | Sobirov Bahrombek | assistent o'qituvchi | Axborot xavfsizligi | 6 | 5 400 000 | +998995864533 | | | | | |

| |
|---------------------------|
| MyDatabases |
| information_schema |
| institut |
| bosqichlar 32,0 KiB |
| deleted_students 16,0 KiB |
| guruqlar 32,0 KiB |
| shartnomalar 32,0 KiB |
| talabalar 48,0 KiB |
| talaba_saqlash |
| talaba_yangilash |
| update_teachers |
| uqituvchilar 16,0 KiB |
| yangilanishlar 16,0 KiB |

| |
|--------------------|
| itcenter |
| mydb |
| mysql |
| performance_schema |
| proba |
| supermarket |
| tatu_tests |
| ubtuittest |
| universitet |

2-Topshiriq: uqituvchilar jadvaliga yangi ma'lumot kiritilganda, tel ustuniga noto'g'ri kompaniya kodi bilan raqam berilgan bo'lса, uni avtomatik “+99862” kodi bilan o'zgartiruvchi edit_tel nomli trigger yaratting. (uzb dagi barcha kompaniya kodlari inobatga olinsin!)

MyDatabases\institut\uqituvchilar - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос* Запрос #2* Запрос #3* Запрос #4*

Donate

MyDatabases

- information_schema
- institut
 - bosqichlar
 - deleted_students
 - guruuhlar
 - shartnomalar
 - talabalar
 - talaba_saqlash
 - talaba_yangilash
 - uqituvchilar**
- itcenter
- mydb
- mysql
- performance_schema
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

institut.uqituvchilar: 17 строк (приблизительно)

| 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 Otabek | 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 |
| 19 | Aliyev Oybек | assistant 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 | assistant 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 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injiniringi | 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 texnologiyalari | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |

Фильтр баз д... Фильтр табл

```
1 delimiter //
2 CREATE TRIGGER edit_tel
3 BEFORE INSERT
4 ON uqituvchilar
5 FOR EACH ROW
6 BEGIN
7     DECLARE kod VARCHAR(10);
8     SET kod = LEFT(NEW.tel, 6);
9     if NOT kod IN ("+99891", "+99890", "+99893", "+99894", "+99899", "+99888", "+99833") then
10        SET NEW.tel = REPLACE(NEW.tel, kod, "+99862");
11    END if;
12 END //
13 delimiter ;
```

| MyDatabases |
|-------------------------|
| > information_s... |
| institut 192,0 KiB |
| bosqichlar 32,0 KiB |
| deleted_stu... 16,0 KiB |
| edit_tel |
| guruhalar 32,0 KiB |
| shartnomalar 32,0 KiB |
| talabalar 48,0 KiB |
| talaba_saql... |
| talaba_yangi... |
| update_teac... |
| uqituvchilar 16,0 KiB |
| yangilanishlar 16,0 KiB |
| > itcenter |
| > mydb |
| > mysql |
| > performance_s... |
| > proba |
| > supermarket |
| > tatu_tests |
| > ubtuittest |
| > universitet |

Фильтр баз д... Фильтр табл...

Хост: 127.0.0.1 База данных: institut Запрос* Запрос #2* Запрос #3* Запрос #4*

| MyDatabases | |
|-----------------|------------------|
| > | information_s... |
| институт | 192,0 Kib |
| bosqichlar | 32,0 Kib |
| deleted_stu... | 16,0 Kib |
| edit_tel | |
| guruuhlar | 32,0 Kib |
| shartnomalar | 32,0 Kib |
| talabalar | 48,0 Kib |
| talaba_saql... | |
| talaba_yangi... | |
| update_teac... | |
| uqituvchilar | 16,0 Kib |
| yangilanishlar | 16,0 Kib |
| > | itcenter |
| > | mydb |
| > | mysql |
| > | performance_s... |
| > | proba |
| > | supermarket |
| > | tatu_tests |
| > | ubtuittest |
| > | universitet |

```
1 INSERT INTO uqituvchilar(fio, tel)
2 VALUES ("To'rabayev Jamshid", "+998111564897")
```

MyDatabases\institut\uqituvchilar - HeidiSQL Portable 11.0.0.5958

Файл Редактировать Поиск Инструменты Переход Помощь

Фильтр баз д... Фильтр табл [★]

Хост: 127.0.0.1 База данных: institut Таблица: uqituvchilar Данные Запрос* Запрос #2* Запрос #3* Запрос #4*

Donate

MyDatabases

- information_s...
- institut** 192,0 Kib
 - bosqichlar 32,0 Kib
 - deleted_stu... 16,0 Kib
 - edit_tel
 - guruhiar 32,0 Kib
 - shartnomalar 32,0 Kib
 - talabalar 48,0 Kib
 - talaba_saql...
talaba_yangi...
update_teac...
 - uqituvchilar** 16,0 Kib
 - yangilanishlar 16,0 Kib
- itcenter
- mydb
- mysql
- performance_s...
- proba
- supermarket
- tatu_tests
- ubtuittest
- universitet

institut.uqituvchilar: 18 строк (приблизительно)

| tartib_raqami | fio | lavozimi | kafedrasi | yillik_stagi | oyligi | tel |
|---------------|-----------------------|----------------------|--------------------------------|--------------|---------------|---------------|
| 83 | Sobirov Bahrombek | assistant o'qituvchi | Axborot xavfsizligi | 6,0 | 5 800 000,00 | +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 |
| 19 | Aliyev Oybek | assistant 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 | assistant 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 |
| 92 | Salayev Rahmonbergan | stajor o'qituvchi | Telekommunikatsiya injiniringi | 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 texnologiyalari | 1,0 | 4 800 000,00 | +998914143223 |
| 98 | Saidov Dilmurod | katta o'qituvchi | Tabiiy fanlar | 8,0 | 7 800 000,00 | +998975294949 |
| (NULL) | To'rabayev Jamshid | (NULL) | (NULL) | (NULL) | (NULL) | +998621564897 |

Подключено: 02:09 h MariaDB 10.3.22 Время работы: 05:59 h Серверное время: 17: Ожидание.

A photograph of a classroom with red desks and chairs. Ten students are shown, all with their heads down on their desks, appearing to be asleep. They are arranged in two rows: five in the front row and five in the back row. The students are dressed in casual clothing, including shirts, pants, and a tie-dye shirt. The classroom has large windows in the background.

SAVOLLAR?