

## **13. ALTER TABLE and relationship**

**Jadvallarni o'zgartirish operatori va ular orasida aloqa o'rnatish**

**Jadvallarni to'g'ri dizayn qilish-3 (MySQL so'rovi)**

ass. Baltayev Rustambek

## **Ustun qo'shishda ishlatilishi:**

**ALTER TABLE** table\_name

**ADD** column\_name *datatype*;

## **Ustun o'chirishda ishlatilishi:**

**ALTER TABLE** table\_name

**DROP COLUMN** column\_name;

## **Ustun turini o'zgartirishda ishlatilishi:**

**ALTER TABLE** table\_name

**MODIFY COLUMN** column\_name *datatype*;

## **Ustun nomini va turini o'zgartirishda ishlatilishi:**

**ALTER TABLE** table\_name

**CHANGE COLUMN** old\_column\_name new\_column\_name *datatype*;

## Talabalar jadvalini so'rovlar yozib to'g'ri dizayn qilamiz

tartib_ raqami	fio	t_sanasi	guruh	bosqich	shartnoma _turi	kurslari
5	Bekchanov Asadbek	1997-03-29	961-20	4	Grant	Football, Pythonda dasturlash, Stol tennis
34	Kamolova Shohista	1999-02-13	951-21	3	Kontrakt	C++ da dasturlash, Kompyuter grafikasi
2	Xabibullayev Abrorbek	2000-08-04	911-21	3	Grant	Football, Kompyuter grafikasi
1	Ismoilov Abdulla	1998-02-24	971-22	2	Grant	C++, Stol tennis, Kiber sport
26	Abdullayeva Nilufar	1999-06-03	971-20	4	Kontrakt	Valleyball, Pythonda dasturlash, MySQL DB
41	Tajiyeva Umida	1999-10-25	951.21	3	Kontrakt	Stol tennis, MySQL Ma'lumotlar bazasi
39	Raximberganov Temurbek	2001-10-05	912-21	3	Kontrakt	Ingliz tili, Pythonda dasturlash
43	O'rinov Xalilla	2000-01-10	912-21	3	Grant	Pythonda dasturlash, MySQL DB
31	Norimbetov Ro'zimboy	2002-07-10	932-20	4	Kontrakt	Ingliz tili, Kompyuter grafikasi
8	Sotliqov Dastonbek	2004-08-22	971-22	2	Grand	Ingliz tili, Kibersport
9	Kuchkarov Dilshodbek	1999-06-11	911-21	3	Kontrakt	NULL
29	Abdullayeva Orzigul	2002-09-07	931-23	1	Kontrokt	Ingliz tili
37	Nurullayev Temur	2002-09-25	961-20	4	Kontrakt	Stol tennis, Futboll, Valleyboll
12	Samandarov Egamberdi	2000-12-03	911_21	3	Kontrakt	NULL
10	Artikov Doniyor	2001-05-28	921-21	3	Kontraqt	English, Javada dasturlash
25	Qurbaniyazov Nazarbek	2003-03-30	911-23	1	Grant	Kompyuter grafikasi, Python dasturlash tili

# Talabalar va guruhlar jadvallarini shu ko'rinishga keltirish kerak

<b>PK</b>				<b>FK</b>
talabalar				
id	familiya	ism	t_sanasi	guruh_id
5	Bekchanov	Asadbek	1997-03-29	8
34	Kamolova	Shohista	1999-02-13	7
2	Xabibullayev	Abrorbek	2000-08-04	1
1	Ismoilov	Abdulla	1998-02-24	10
26	Abdullayeva	Nilufar	1999-06-03	9
41	Tajiyeva	Umida	1999-10-25	7
39	Raximberganov	Temurbek	2001-10-05	3
43	O'rinov	Xalilla	2000-01-10	3
31	Norimbetov	Ro'zimboy	2002-07-10	6
8	Sotliqov	Dostonbek	2004-08-22	10
9	Kuchkarov	Dilshodbek	1999-06-11	1
29	Abdullayeva	Orzigul	2002-09-07	5
37	Nurullayev	Temur	2002-09-25	8
12	Samandarov	Egamberdi	2000-12-03	1
10	Artikov	Doniyor	2001-05-28	4

REFERENCES

N:1

<b>PK</b>	<b>UK</b>
id	guruh
1	911-21
2	911-23
3	912-21
4	921-21
5	931-23
6	932-20
7	951-21
8	961-20
9	971-20
10	971-22

guruhlar

**ALTER TABLE** talabalar

**DROP COLUMN** kurslari

tartib_ raqami	fio	t_sanasi	guruh	bosqich	shartnoma _turi	kurslari
5	Bekchanov Asadbek	1997-03-29	961-20	4	Grant	Football, Pythonda dasturlash, Stol tennis
34	Kamolova Shohista	1999-02-13	951-21	3	Kontrakt	C++ da dasturlash, Kompyuter grafikasi
2	Xabibullayev Abrorbek	2000-08-04	911-21	3	Grant	Football, Kompyuter grafikasi
1	Ismoilov Abdulla	1998-02-24	971-22	2	Grant	C++, Stol tennis, Kiber sport
26	Abdullayeva Nilufar	1999-06-03	971-20	4	Kontrakt	Valleyball, Pythonda dasturlash, MySQL DB
41	Tajiyeva Umida	1999-10-25	951.21	3	Kontrakt	Stol tennis, MySQL Ma'lumotlar bazasi
39	Raximberganov Temurbek	2001-10-05	912-21	3	Kontrakt	Ingliz tili, Pythonda dasturlash
43	O'rinov Xalilla	2000-01-10	912-21	3	Grant	Pythonda dasturlash, MySQL DB
31	Norimbetov Ro'zimboy	2002-07-10	932-20	4	Kontrakt	Ingliz tili, Kompyuter grafikasi
8	Sotliqov Dastonbek	2004-08-22	971-22	2	Grand	Ingliz tili, Kibersport
9	Kuchkarov Dilshodbek	1999-06-11	911-21	3	Kontrakt	NULL
29	Abdullayeva Orzigul	2002-09-07	931-23	1	Kontrokt	Ingliz tili
37	Nurullayev Temur	2002-09-25	961-20	4	Kontrakt	Stol tennis, Futboll, Valleyboll
12	Samandarov Egamberdi	2000-12-03	911_21	3	Kontrakt	NULL
10	Artikov Doniyor	2001-05-28	921-21	3	Kontraqt	English, Javada dasturlash
25	Qurbaniyazov Nazarbek	2003-03-30	911-23	1	Grant	Kompyuter grafikasi, Python dasturlash tili

**ALTER TABLE** talabalar

**DROP COLUMN** shartnoma\_turi

tartib_ raqami	fio	t_sanasi	guruh	bosqich	shartnoma _turi
5	Bekchanov Asadbek	1997-03-29	961-20	4	Grant
34	Kamolova Shohista	1999-02-13	951-21	3	Kontrakt
2	Xabibullayev Abrorbek	2000-08-04	911-21	3	Grant
1	Ismoilov Abdulla	1998-02-24	971-22	2	Grant
26	Abdullayeva Nilufar	1999-06-03	971-20	4	Kontrakt
41	Tajiyeva Umida	1999-10-25	951.21	3	Kontrakt
39	Raximberganov Temurbek	2001-10-05	912-21	3	Kontrakt
43	O‘rinov Xalilla	2000-01-10	912-21	3	Grant
31	Norimbetov Ro‘zimboy	2002-07-10	932-20	4	Kontrakt
8	Sotliqov Dastonbek	2004-08-22	971-22	2	Grand
9	Kuchkarov Dilshodbek	1999-06-11	911-21	3	Kontrakt
29	Abdullayeva Orzigul	2002-09-07	931-23	1	Kontrokt
37	Nurullayev Temur	2002-09-25	961-20	4	Kontrakt
12	Samandarov Egamberdi	2000-12-03	911_21	3	Kontrakt
10	Artikov Doniyor	2001-05-28	921-21	3	Kontraqt
25	Qurbaniyazov Nazarbek	2003-03-30	911-23	1	Grant

**ALTER TABLE** talabalar

**DROP COLUMN** bosqich

tartib_ raqami	fio	t_sanasi	guruh	bosqich
5	Bekchanov Asadbek	1997-03-29	961-20	4
34	Kamolova Shohista	1999-02-13	951-21	3
2	Xabibullayev Abrorbek	2000-08-04	911-21	3
1	Ismoilov Abdulla	1998-02-24	971-22	2
26	Abdullayeva Nilufar	1999-06-03	971-20	4
41	Tajiyeva Umida	1999-10-25	951.21	3
39	Raximberganov Temurbek	2001-10-05	912-21	3
43	O‘rinov Xalilla	2000-01-10	912-21	3
31	Norimbetov Ro‘zimboy	2002-07-10	932-20	4
8	Sotliqov Dastonbek	2004-08-22	971-22	2
9	Kuchkarov Dilshodbek	1999-06-11	911-21	3
29	Abdullayeva Orzigul	2002-09-07	931-23	1
37	Nurullayev Temur	2002-09-25	961-20	4
12	Samandarov Egamberdi	2000-12-03	911_21	3
10	Artikov Doniyor	2001-05-28	921-21	3
25	Qurbaniyazov Nazarbek	2003-03-30	911-23	1

**ALTER TABLE** talabalar

**DROP COLUMN** guruh

tartib_ raqami	fio	t_sanasi	guruh
5	Bekchanov Asadbek	1997-03-29	961-20
34	Kamolova Shohista	1999-02-13	951-21
2	Xabibullayev Abrorbek	2000-08-04	911-21
1	Ismoilov Abdulla	1998-02-24	971-22
26	Abdullayeva Nilufar	1999-06-03	971-20
41	Tajiyeva Umida	1999-10-25	951.21
39	Raximberganov Temurbek	2001-10-05	912-21
43	O'rinov Xalilla	2000-01-10	912-21
31	Norimbetov Ro'zimboy	2002-07-10	932-20
8	Sotliqov Dastonbek	2004-08-22	971-22
9	Kuchkarov Dilshodbek	1999-06-11	911-21
29	Abdullayeva Orzigul	2002-09-07	931-23
37	Nurullayev Temur	2002-09-25	961-20
12	Samandarov Egamberdi	2000-12-03	911_21
10	Artikov Doniyor	2001-05-28	921-21
25	Qurbaniyazov Nazarbek	2003-03-30	911-23



ALTER TABLE talabalar

DROP COLUMN fio

tartib_ raqami	fio	t_sanasi
5	Bekchanov Asadbek	1997-03-29
34	Kamolova Shohista	1999-02-13
2	Xabibullayev Abrorbek	2000-08-04
1	Ismoilov Abdulla	1998-02-24
26	Abdullayeva Nilufar	1999-06-03
41	Tajiyeva Umida	1999-10-25
39	Raximberganov Temurbek	2001-10-05
43	O‘rinov Xalilla	2000-01-10
31	Norimbetov Ro‘zimboy	2002-07-10
8	Sotliqov Dastonbek	2004-08-22
9	Kuchkarov Dilshodbek	1999-06-11
29	Abdullayeva Orzigul	2002-09-07
37	Nurullayev Temur	2002-09-25
12	Samandarov Egamberdi	2000-12-03
10	Artikov Doniyor	2001-05-28
25	Qurbaniyazov Nazarbek	2003-03-30

**ALTER TABLE** talabalar

**DROP COLUMN** fio

tartib_ raqami	t_sanasi
5	1997-03-29
34	1999-02-13
2	2000-08-04
1	1998-02-24
26	1999-06-03
41	1999-10-25
39	2001-10-05
43	2000-01-10
31	2002-07-10
8	2004-08-22
9	1999-06-11
29	2002-09-07
37	2002-09-25
12	2000-12-03
10	2001-05-28
25	2003-03-30

# ALTER TABLE talabalar

**CHANGE COLUMN** tartib\_raqami id **INT PRIMARY KEY AUTO\_INCREMENT**


tartib_ raqami	t_sanasi
5	1997-03-29
34	1999-02-13
2	2000-08-04
1	1998-02-24
26	1999-06-03
41	1999-10-25
39	2001-10-05
43	2000-01-10
31	2002-07-10
8	2004-08-22
9	1999-06-11
29	2002-09-07
37	2002-09-25
12	2000-12-03
10	2001-05-28
25	2003-03-30

**PRIMARY KEY**– ustunga asosiy kalit oʻrnatish, bunda bu ustunga takroriy qiymat berib boʻlmaydi va ustunni boshqa jadvallardagi FOREIGN KEY ustunlari bilan bogʻlash mumkin boʻladi

**AUTO\_INCREMENT** – agar ustunga qiymat kiritilmasa, avtomatik tarzda oxirgi sonni bittaga oshirilgan qiymatini kiritadi

# ALTER TABLE talabalar

**CHANGE COLUMN** tartib\_raqami id **INT PRIMARY KEY AUTO\_INCREMENT**


 Id	t_sanasi
5	1997-03-29
34	1999-02-13
2	2000-08-04
1	1998-02-24
26	1999-06-03
41	1999-10-25
39	2001-10-05
43	2000-01-10
31	2002-07-10
8	2004-08-22
9	1999-06-11
29	2002-09-07
37	2002-09-25
12	2000-12-03
10	2001-05-28
25	2003-03-30

**PRIMARY KEY**– ustunga asosiy kalit oʻrnatish, bunda bu ustunga takroriy qiymat berib boʻlmaydi va ustunni boshqa jadvallardagi FOREIGN KEY ustunlari bilan bogʻlash mumkin boʻladi

**AUTO\_INCREMENT** – agar ustunga qiymat kiritilmasa, avtomatik tarzda oxirgi sonni bittaga oshirilgan qiymatini kiritadi


# ALTER TABLE talabalar

ADD ism VARCHAR(20)

 Id	t_sanasi
5	1997-03-29
34	1999-02-13
2	2000-08-04
1	1998-02-24
26	1999-06-03
41	1999-10-25
39	2001-10-05
43	2000-01-10
31	2002-07-10
8	2004-08-22
9	1999-06-11
29	2002-09-07
37	2002-09-25
12	2000-12-03
10	2001-05-28
25	2003-03-30


# ALTER TABLE talabalar

ADD familiya VARCHAR(20)

 Id	t_sanasi	ism
5	1997-03-29	(NULL)
34	1999-02-13	(NULL)
2	2000-08-04	(NULL)
1	1998-02-24	(NULL)
26	1999-06-03	(NULL)
41	1999-10-25	(NULL)
39	2001-10-05	(NULL)
43	2000-01-10	(NULL)
31	2002-07-10	(NULL)
8	2004-08-22	(NULL)
9	1999-06-11	(NULL)
29	2002-09-07	(NULL)
37	2002-09-25	(NULL)
12	2000-12-03	(NULL)
10	2001-05-28	(NULL)
25	2003-03-30	(NULL)


# ALTER TABLE talabalar

ADD guruh\_id INT

 Id	t_sanasi	ism	familiya
5	1997-03-29	(NULL)	(NULL)
34	1999-02-13	(NULL)	(NULL)
2	2000-08-04	(NULL)	(NULL)
1	1998-02-24	(NULL)	(NULL)
26	1999-06-03	(NULL)	(NULL)
41	1999-10-25	(NULL)	(NULL)
39	2001-10-05	(NULL)	(NULL)
43	2000-01-10	(NULL)	(NULL)
31	2002-07-10	(NULL)	(NULL)
8	2004-08-22	(NULL)	(NULL)
9	1999-06-11	(NULL)	(NULL)
29	2002-09-07	(NULL)	(NULL)
37	2002-09-25	(NULL)	(NULL)
12	2000-12-03	(NULL)	(NULL)
10	2001-05-28	(NULL)	(NULL)
25	2003-03-30	(NULL)	(NULL)

# ALTER TABLE talabalar

ADD guruh\_id INT

 Id	t_sanasi	ism	familiya	guruh_id
5	1997-03-29	(NULL)	(NULL)	(NULL)
34	1999-02-13	(NULL)	(NULL)	(NULL)
2	2000-08-04	(NULL)	(NULL)	(NULL)
1	1998-02-24	(NULL)	(NULL)	(NULL)
26	1999-06-03	(NULL)	(NULL)	(NULL)
41	1999-10-25	(NULL)	(NULL)	(NULL)
39	2001-10-05	(NULL)	(NULL)	(NULL)
43	2000-01-10	(NULL)	(NULL)	(NULL)
31	2002-07-10	(NULL)	(NULL)	(NULL)
8	2004-08-22	(NULL)	(NULL)	(NULL)
9	1999-06-11	(NULL)	(NULL)	(NULL)
29	2002-09-07	(NULL)	(NULL)	(NULL)
37	2002-09-25	(NULL)	(NULL)	(NULL)
12	2000-12-03	(NULL)	(NULL)	(NULL)
10	2001-05-28	(NULL)	(NULL)	(NULL)
25	2003-03-30	(NULL)	(NULL)	(NULL)




## Talabalar jadvali ma'lumotlarini yangilaymiz

**UPDATE** talabalar

**SET** ism = "Shohista", familiya = "Kamolova"

**WHERE** id = 34

 Id	t_sanasi	ism	familiya	guruh_id
5	1997-03-29	Asadbek	Bekchanov	(NULL)
34	1999-02-13	Shohista	Kamolova	(NULL)
2	2000-08-04	(NULL)	(NULL)	(NULL)
1	1998-02-24	(NULL)	(NULL)	(NULL)
26	1999-06-03	(NULL)	(NULL)	(NULL)
41	1999-10-25	(NULL)	(NULL)	(NULL)
39	2001-10-05	(NULL)	(NULL)	(NULL)
43	2000-01-10	(NULL)	(NULL)	(NULL)
31	2002-07-10	(NULL)	(NULL)	(NULL)
8	2004-08-22	(NULL)	(NULL)	(NULL)
9	1999-06-11	(NULL)	(NULL)	(NULL)
29	2002-09-07	(NULL)	(NULL)	(NULL)

## Talabalar jadvali ma'lumotlarini yangilaymiz

 Id	ism	familiya	t_sanasi	guruh_id
5	Asadbek	Bekchanov	1997-03-29	(NULL)
34	Shohista	Kamolova	1999-02-13	(NULL)
2	Abrorbek	Xabibullayev	2000-08-04	(NULL)
1	Abdulla	Ismoilov	1998-02-24	(NULL)
26	Nilufar	Abdullayeva	1999-06-03	(NULL)
41	Umida	Tajiyeva	1999-10-25	(NULL)
39	Temurbek	Raximberganov	2001-10-05	(NULL)
43	Xalilla	O'rinov	2000-01-10	(NULL)
31	Ro'zimboy	Norimbetov	2002-07-10	(NULL)
8	Dostonbek	Sotliqov	2004-08-22	(NULL)
9	Dilshodbek	Kuchkarov	1999-06-11	(NULL)
29	Orzigul	Abdullayeva	2002-09-07	(NULL)
37	Temur	Nurullayev	2002-09-25	(NULL)
12	Egamberdi	Samandarov	2000-12-03	(NULL)
10	Doniyor	Artikov	2001-05-28	(NULL)
25	Asadbek	Bekchanov	2003-03-30	(NULL)

## Guruhlar jadvalini yaratamiz

```
CREATE TABLE guruhlar(  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    guruh CHAR(6) UNIQUE  
);
```

**guruhlar**

 id	 guruh
--	---

## Guruhlar jadvaliga ma'lumotlarni kiritamiz

```
INSERT INTO guruhlar (guruh)  
VALUES ("911-21"), ("911-23"), ("912-21"),  
    ("921-21"), ("931-23"), ("932-20"),  
    ("951-21"), ("961-20"), ("971-20"),  
    ("971-22")
```



## Guruhlar jadvalini yaratamiz

```
CREATE TABLE guruhlar(  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    guruh CHAR(6) UNIQUE  
);
```

## Guruhlar jadvaliga ma'lumotlarni kiritamiz



```
INSERT INTO guruhlar (guruh)  
VALUES ("911-21"), ("911-23"), ("912-21"),  
    ("921-21"), ("931-23"), ("932-20"),  
    ("951-21"), ("961-20"), ("971-20"),  
    ("971-22")
```

## guruhlar



 id	 guruh
1	911-21
2	911-23
3	912-21
4	921-21
5	931-23
6	932-20
7	951-21
8	961-20
9	971-20
10	971-22

Qilishimiz kerak

talabalar



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

REFERENCES



 id	 guruh
1	911-21
2	911-23
3	912-21
4	921-21
5	931-23
6	932-20
7	951-21
8	961-20
9	971-20
10	971-22

guruhlar

# Qilishimiz kerak

universitet: <b>talabalar</b>	
	<b>id:</b> INT
	<b>familiya:</b> VARCHAR(20)
	<b>ism:</b> VARCHAR(20)
	<b>t_sanasi:</b> DATE
	<b>guruh_id:</b> INT

REFERENCES

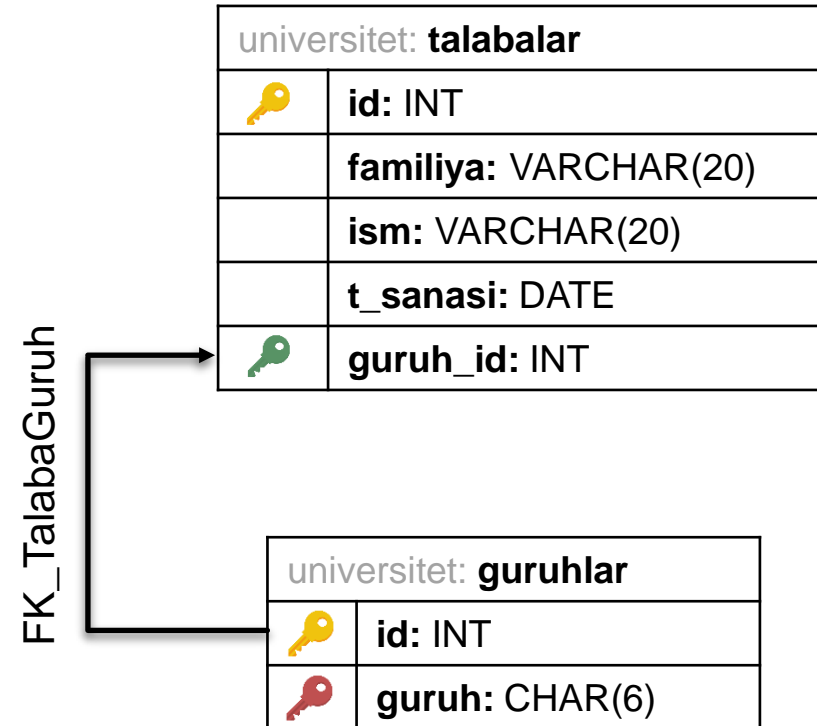
universitet: <b>guruhlar</b>	
	<b>id:</b> INT
	<b>guruh:</b> CHAR(6)

# Talabalar va Guruhlar jadvallarini bog'laymiz

## 1-usul: Agar talabalar jadvali yaratilmagan bo'lsa

```
CREATE TABLE talabalar(  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    ism VARCHAR(20),  
    familiya VARCHAR(20),  
    t_sanasi DATE,  
    guruh_id INT,  
    FOREIGN KEY (guruh_id) REFERENCES guruhlar(id)  
);
```

```
CREATE TABLE talabalar(  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    ism VARCHAR(20),  
    familiya VARCHAR(20),  
    t_sanasi DATE,  
    guruh_id INT,  
    CONSTRAINT FK_TalabaGuruh FOREIGN KEY(guruh_id) REFERENCES guruhlar(id)  
);
```



# Talabalar va Guruhlar jadvallarini bog'laymiz

## 2-usul: Agar talabalar jadvali yaratilgan bo'lsa

**ALTER TABLE** talabalar

**ADD FOREIGN KEY** (guruh\_id) **REFERENCES** guruhlar(id);

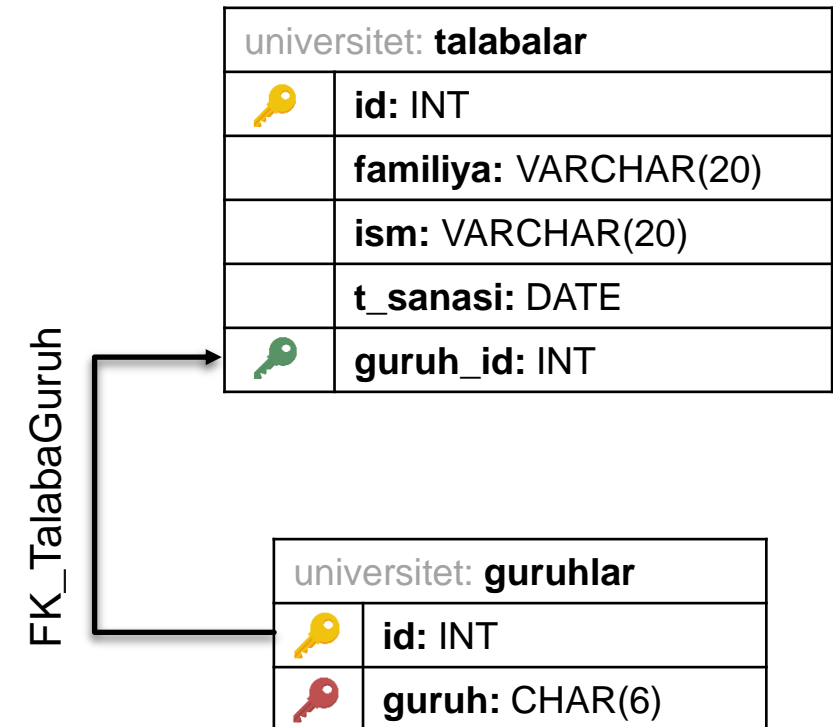
**ALTER TABLE** talabalar

**ADD CONSTRAINT** FK\_TalabaGuruh

**FOREIGN KEY** (guruh\_id) **REFERENCES** guruhlar(id);

**ALTER TABLE** talabalar

**DROP FOREIGN KEY** FK\_TalabaGuruh;





# Talabalar va Guruhlar jadvallarini bog'laymiz

## 2-usul: Agar talabalar jadvali yaratilgan bo'lsa

**ALTER TABLE** talabalar

**ADD FOREIGN KEY** (guruh\_id) **REFERENCES** guruhlar(id);



**ALTER TABLE** talabalar



**ADD CONSTRAINT** FK\_TalabaGuruh

**FOREIGN KEY** (guruh\_id) **REFERENCES** guruhlar(id);

**ALTER TABLE** talabalar

**DROP FOREIGN KEY** FK\_TalabaGuruh;

universitet: talabalar	
	<b>id:</b> INT
	<b>familiya:</b> VARCHAR(20)
	<b>ism:</b> VARCHAR(20)
	<b>t_sanasi:</b> DATE
	<b>guruh_id:</b> INT

universitet: guruhlar	
	<b>id:</b> INT
	<b>guruh:</b> CHAR(6)

## **Topshiriqlar:**

**1-so'rov: Shartnomalar(id, shartnoma\_turi) nomli jadval yarating, unga asosiy va yagonalik kalitlarini bering, id ustunini avtomatik qiymat berish rejimida qo'ying.**




**2-so'rov: Shartnomalar jadvalining shartnoma\_turi ustuniga "Grant" va "Kontrakt" qiymatlarni kiriting.**

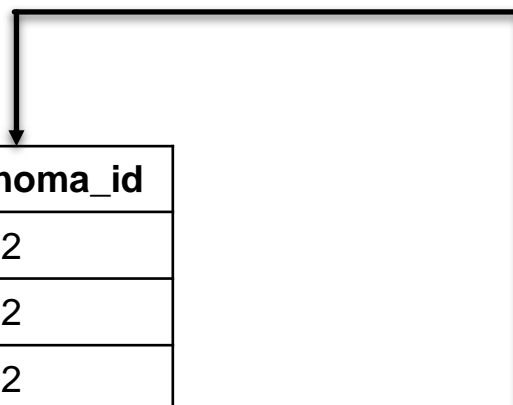
**3-so'rov: Talabalar jadvaliga shartnoma\_id nomli yangi ustun qo'shing.**



**4-so'rov: Talabalar jadvalidagi shartnoma\_id ustuni bilan Shartnomalar jadvalidagi id ustunini bog'lang.**

**5-so'rov: Talabalar jadvalidagi shartnoma\_id ustunining barcha qatorini 2 raqamiga o'zgartiring**

## Talabalar

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



 id	 shartnoma_turi
1	Grant
2	Kontrakt

## Shartnomalar

<b>1-so'rov:</b> Shartnomalar(id, shartnoma_turi) nomli jadval yarating, unga asosiy va yagonalik kalitlarini bering, id ustunini avtomatik qiymat berish rejimida qo'ying	<pre>CREATE TABLE shartnomalar(     id INT PRIMARY KEY AUTO_INCREMENT,     shartnoma_turi VARCHAR(10) UNIQUE );</pre>
<b>2-so'rov:</b> Shartnomalar jadvalining shartnoma_turi ustuniga "Grant" va "Kontrakt" qiymatlarni kiriting.	<pre>INSERT INTO shartnomalar(shartnoma_turi) VALUES ("Grant"), ("Kontrakt")</pre>
<b>3-so'rov:</b> Talabalar jadvaliga shartnoma_id nomli yangi ustun qo'shing	<pre>ALTER TABLE talabalar ADD shartnoma_id INT</pre>
<b>4-so'rov:</b> Talabalar jadvalidagi shartnoma_id ustuni bilan Shartnomalar jadvalidagi id ustunini bog'lang.	<pre>ALTER TABLE talabalar ADD FOREIGN KEY(shartnoma_id) REFERENCES shartnomalar(id)</pre>
<b>5-so'rov:</b> Talabalar jadvalidagi shartnoma_id ustunining barcha qatorini 2 raqamiga o'zgartiring	<pre>UPDATE talabalar SET shartnoma_id=2</pre>



SAVOLLAR?