

# **JOINS in MySQL**

## **INNER JOIN, LEFT JOIN, RIGHT JOIN**

MySQL da Joinlar bilan ishlash

ass. Baltayev Rustambek

**INNER JOIN** - ikkala jadvaldagi qiymatlarga mos keladigan qatorlarni tanlaydi.

**LEFT JOIN** - chap jadvaldagi barcha qatorlarni va o'ng jadvaldagi mos qatorlarni (agar mavjud bo'lsa) qaytaradi.



**RIGHT JOIN** - barcha qatorlarni o'ng jadvaldan va mos qatorlarni (agar mavjud bo'lsa) chap jadvaldan qaytaradi.

## Talabalar

 id	familiya	ism	t_sanasi	 guruh_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'rinov	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
37	Nurullayev	Temur	2002-09-25	7
12	Samandarov	Egamberdi	2000-12-03	(NULL)
10	Artikov	Doniyor	2001-05-28	12

## REFERENCES

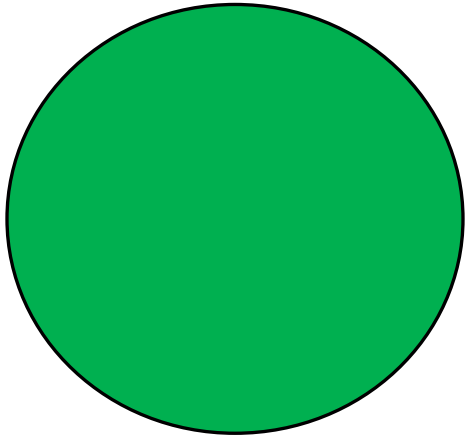
## Guruhlar

 id	 guruh
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

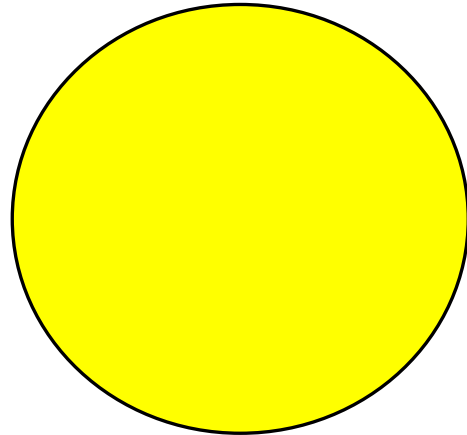
## INNER JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar



Guruhlar



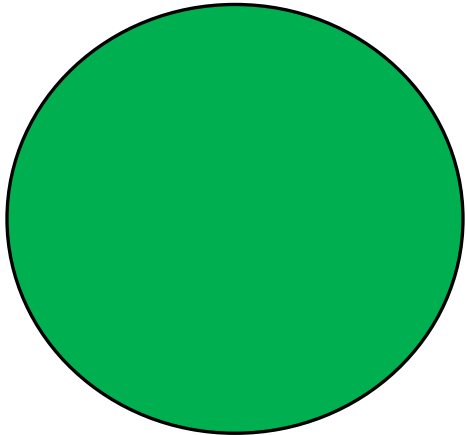
🔑 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

🔑 id
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2
3
4
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7
8
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10
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12
13

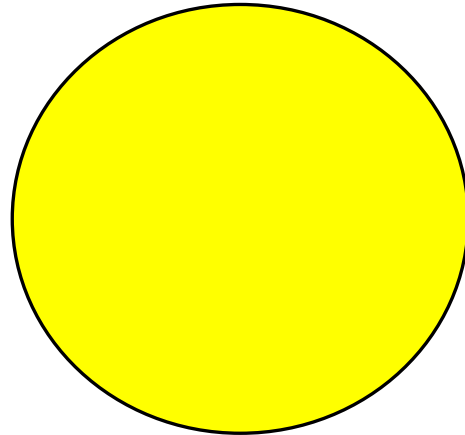
## INNER JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar



Guruhlar



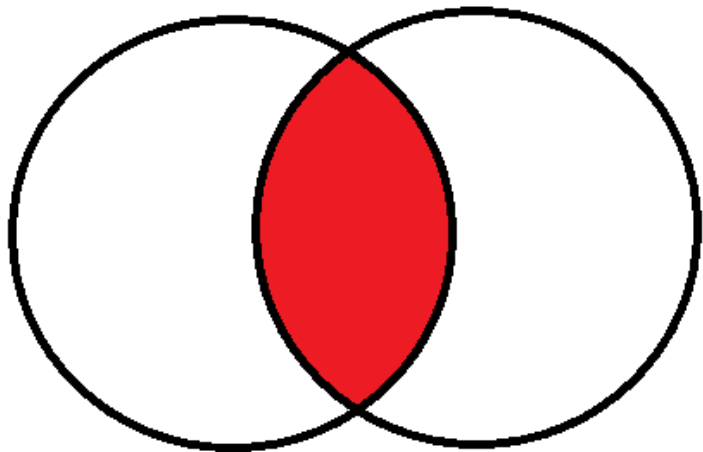
🔑 guruh_id
3
1
1
7
11
13
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(NULL)
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🔑 id
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13

## INNER JOIN


Talabalar


Guruhlar





ON Talabalar.guruh\_id = Guruhlar.id

## JOIN

 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

 id
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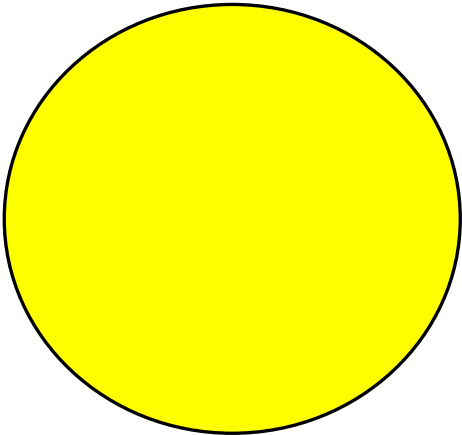
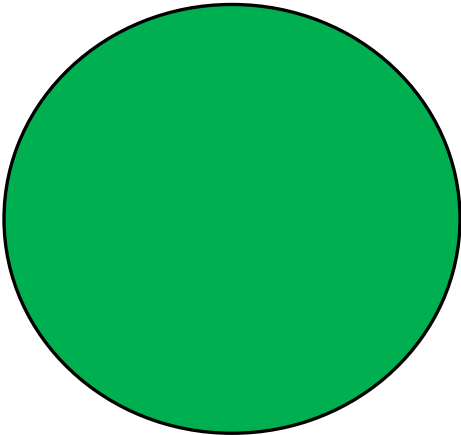
 guruh_id	 id
3	3
1	1
1	1
7	7
11	11
13	13
5	5
7	7
11	11
12	12
7	7
12	12

LEFT JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar

Guruhlar



🔑 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

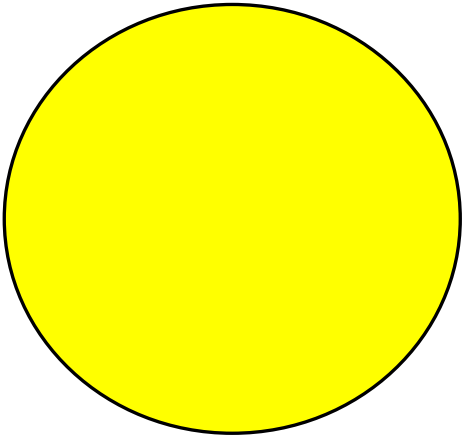
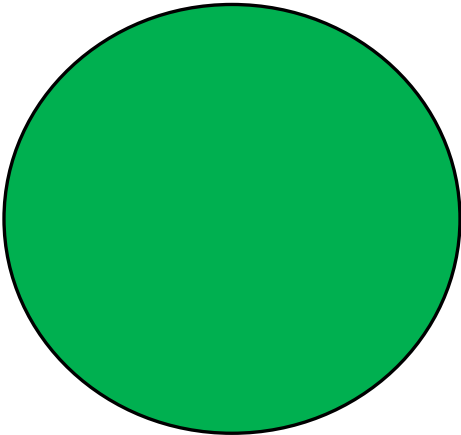
🔑 id
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LEFT JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar

Guruhlar



🔑 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

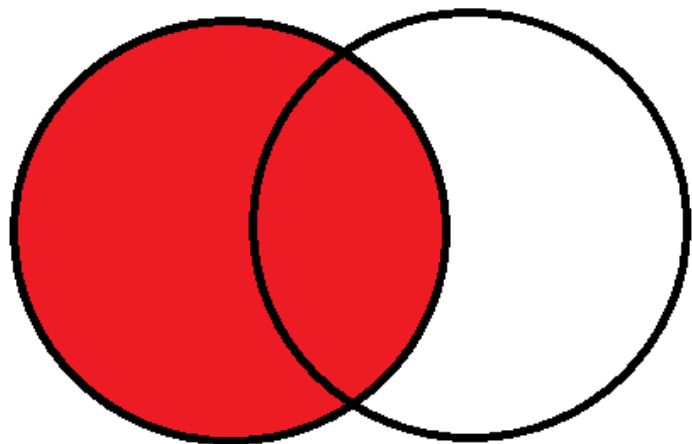
🔑 id
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13




LEFT JOIN


Talabalar

Guruhlar





ON Talabalar.guruh\_id = Guruhlar.id

 guruh_id
3
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(NULL)
7
(NULL)
11
12
7
(NULL)
12

 id
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JOIN

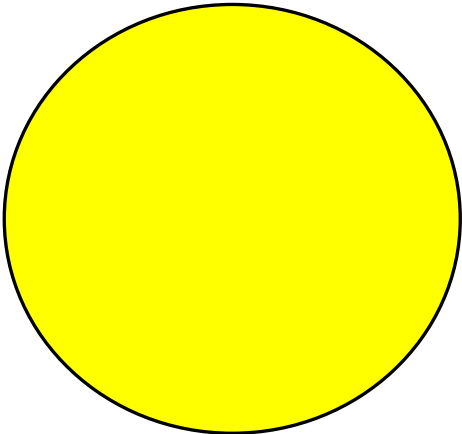
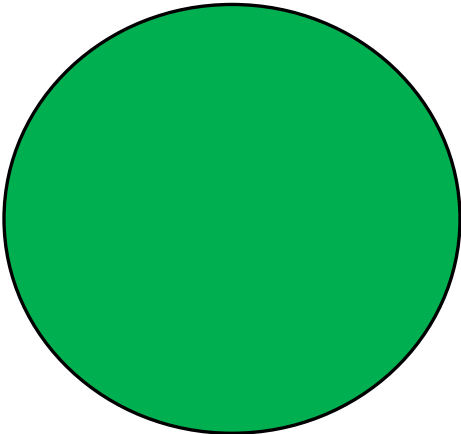
 guruh_id	 id
3	3
1	1
1	1
7	7
11	11
13	13
5	5
(NULL)	(NULL)
7	7
(NULL)	(NULL)
11	11
12	12
7	7
(NULL)	(NULL)
12	12

RIGHT JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar

Guruhlar



🔑 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

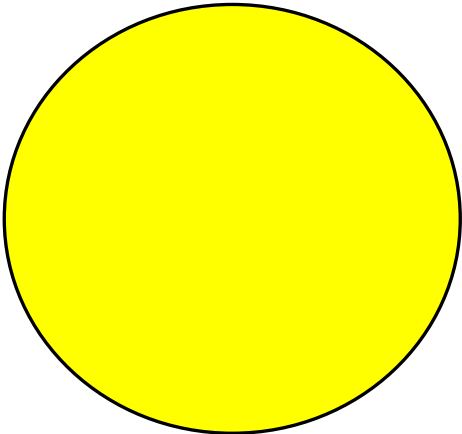
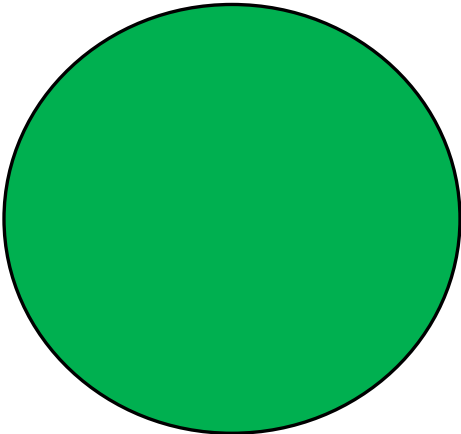
🔑 id
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RIGHT JOIN

ON Talabalar.guruh\_id = Guruhlar.id

Talabalar

Guruhlar



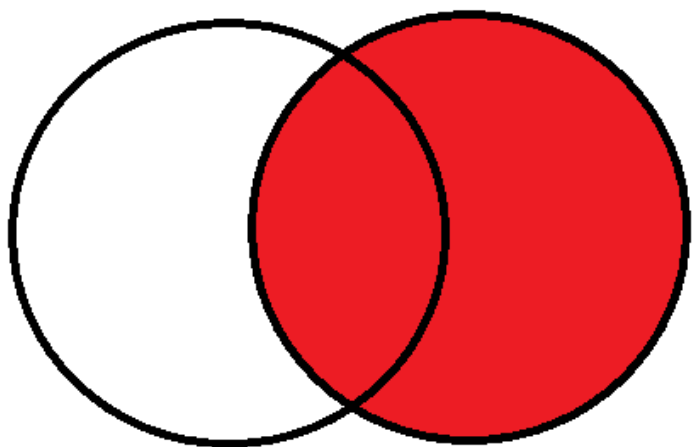
🔑 guruh_id
3
1
1
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(NULL)
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(NULL)
11
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(NULL)
12

🔑 id
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11
12
13

# RIGHT JOIN


Talabalar


Guruhlar





ON Talabalar.guruh\_id = Guruhlar.id

# JOIN

 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

 id
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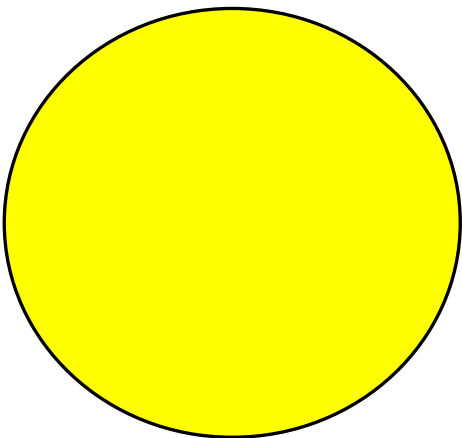
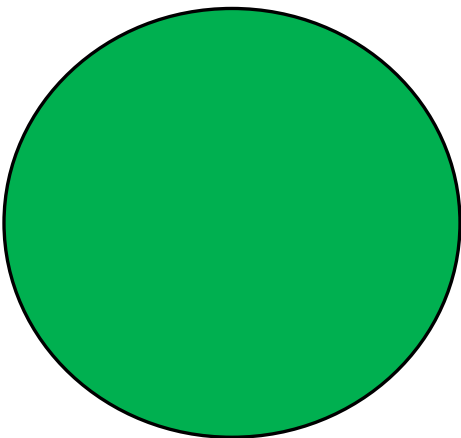
 guruh_id	 id
1	1
1	1
(NULL)	2
(NULL)	4
3	3
5	5
(NULL)	6
7	7
7	7
7	7
(NULL)	8
(NULL)	9
(NULL)	10
11	11
11	11
12	12
12	12
13	13


**FULL OUTER JOIN**  
**LEFT JOIN UNION RIGHT JOIN**


**ON Talabalar.guruh\_id = Guruhlar.id**

**Talabalar**

**Guruhlar**



 guruh_id
3
1
1
7
11
13
5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

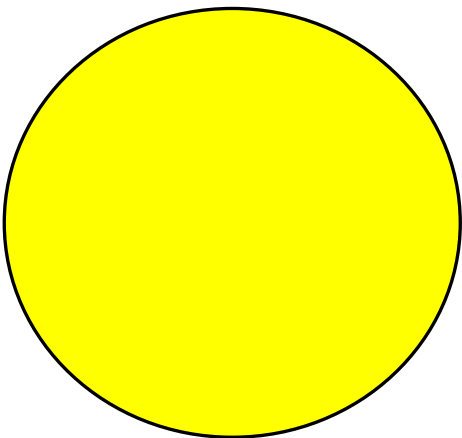
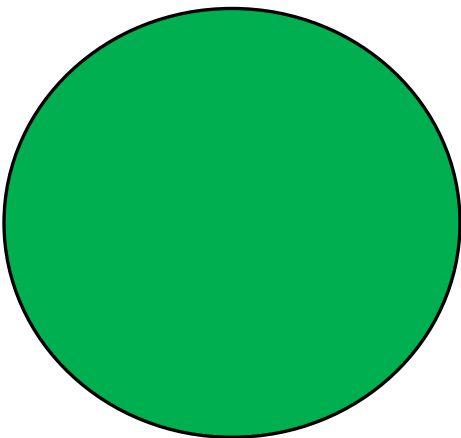
 id
1
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**FULL OUTER JOIN**  
**LEFT JOIN UNION RIGHT JOIN**


**ON Talabalar.guruh\_id = Guruhlar.id**

**Talabalar**

**Guruhlar**



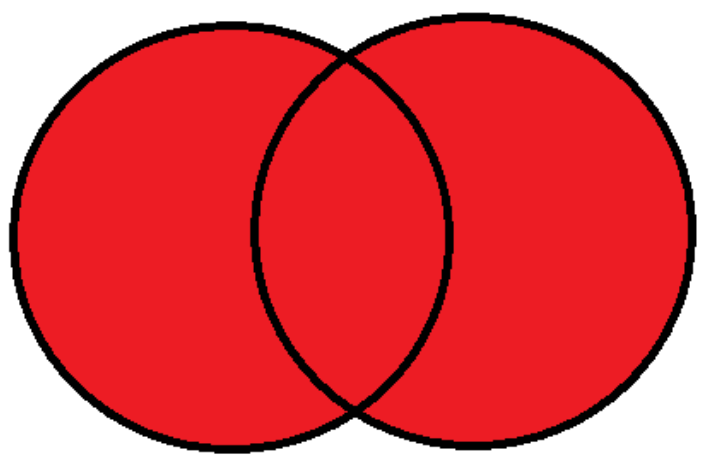
 guruh_id
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1
7
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5
(NULL)
7
(NULL)
11
12
7
(NULL)
12

 id
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FULL OUTER JOIN  
LEFT JOIN UNION RIGHT JOIN


Talabalar


Guruhlar





ON Talabalar.guruh\_id = Guruhlar.id

JOIN

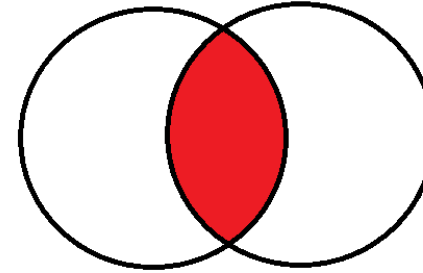
 guruh_id
3
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(NULL)
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(NULL)
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(NULL)
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 id
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 guruh_id	 id
1	1
1	1
(NULL)	2
(NULL)	4
3	3
5	5
(NULL)	6
7	7
7	7
7	7
(NULL)	8
(NULL)	9
(NULL)	10
11	11
11	11
12	12
12	12
13	13
(NULL)	(NULL)
(NULL)	(NULL)
(NULL)	(NULL)

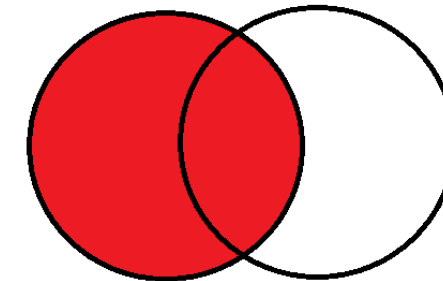
### INNER JOIN ishlatilishi:

```
SELECT table_name.column_name, ...  
FROM table1  
INNER JOIN table2  
ON table1.column_name = table2.column_name;
```



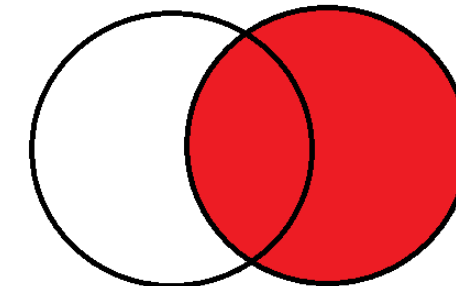
### LEFT JOIN ishlatilishi:

```
SELECT table_name.column_name, ...  
FROM table1  
LEFT JOIN table2  
ON table1.column_name = table2.column_name;
```



### RIGHT JOIN ishlatilishi:

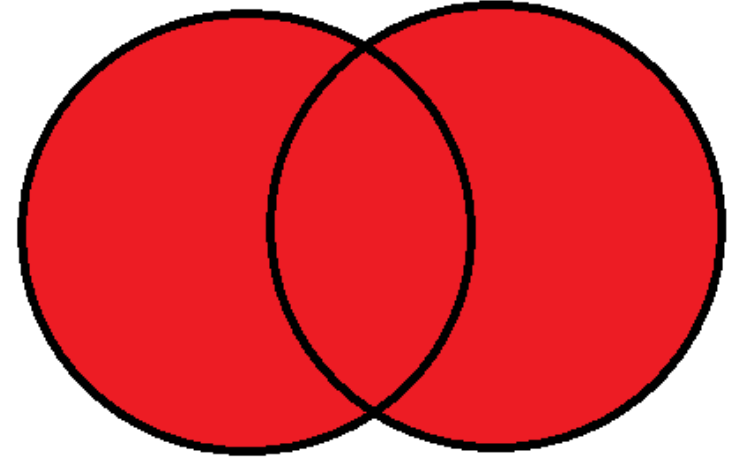
```
SELECT table_name.column_name, ...  
FROM table1  
RIGHT JOIN table2  
ON table1.column_name = table2.column_name;
```







## FULL OUTER JOIN ishlatilishi:



```
SELECT table_name.column_name, ...  
FROM table1  
LEFT JOIN table2  
ON table1.column_name = table2.column_name  
UNION  
SELECT table_name.column_name, ...  
FROM table1  
RIGHT JOIN table2  
ON table1.column_name = table2.column_name;
```



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

 id	familiya	ism	t_sanasi	 guruh_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‘rinov	Xalilla	2000-01-10	(NULL)
31	Norimbetov	Ro‘zimboy	2002-07-10	7
8	Sotliqov	Dostonbek	2004-08-22	(NULL)
9	Kuchkarov	Dilshodbek	1999-06-11	11
29	Abdullayeva	Orzigul	2002-09-07	12
37	Nurullayev	Temur	2002-09-25	7
12	Samandarov	Egamberdi	2000-12-03	(NULL)
10	Artikov	Doniyor	2001-05-28	12

Talabalar

 id	 guruh
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

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

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

**SELECT \***

**FROM** talabalar **INNER JOIN** guruhlar

**ON** talabalar.guruh\_id = guruhlar.id

 id	familiya	ism	t_sanasi	 guruh_id	 id	guruh
5	Bekchanov	Asadbek	1997-03-29	3	<b>3</b>	911-22
34	Kamolova	Shohista	1999-02-13	1	<b>1</b>	911-21
2	Xabibullayev	Abrorbek	2000-08-04	1	<b>1</b>	911-21
1	Ismoilov	Abdulla	1998-02-24	7	<b>7</b>	932-20
26	Abdullayeva	Nilufar	1999-06-03	11	<b>11</b>	961-20
41	Tajiyeva	Umida	1999-10-25	13	<b>13</b>	971-22
39	Raximberganov	Temurbek	2001-10-05	5	<b>5</b>	921-21
31	Norimbetov	Ro'zimboy	2002-07-10	7	<b>7</b>	932-20
9	Kuchkarov	Dilshodbek	1999-06-11	11	<b>11</b>	961-20
29	Abdullayeva	Orzigul	2002-09-07	12	<b>12</b>	971-20
37	Nurullayev	Temur	2002-09-25	7	<b>7</b>	932-20
10	Artikov	Doniyor	2001-05-28	12	<b>12</b>	971-20

```

SELECT *
FROM talabalar AS t INNER JOIN guruhlar AS g
ON t.guruh_id = g.id

```

 id	familiya	ism	t_sanasi	 guruh_id	 id	guruh
5	Bekchanov	Asadbek	1997-03-29	3	<b>3</b>	911-22
34	Kamolova	Shohista	1999-02-13	1	<b>1</b>	911-21
2	Xabibullayev	Abrorbek	2000-08-04	1	<b>1</b>	911-21
1	Ismoilov	Abdulla	1998-02-24	7	<b>7</b>	932-20
26	Abdullayeva	Nilufar	1999-06-03	11	<b>11</b>	961-20
41	Tajiyeva	Umida	1999-10-25	13	<b>13</b>	971-22
39	Raximberganov	Temurbek	2001-10-05	5	<b>5</b>	921-21
31	Norimbetov	Ro'zimboy	2002-07-10	7	<b>7</b>	932-20
9	Kuchkarov	Dilshodbek	1999-06-11	11	<b>11</b>	961-20
29	Abdullayeva	Orzigul	2002-09-07	12	<b>12</b>	971-20
37	Nurullayev	Temur	2002-09-25	7	<b>7</b>	932-20
10	Artikov	Doniyor	2001-05-28	12	<b>12</b>	971-20

```



SELECT t.ism, t.familiya, t.guruh_id, g.guruh
FROM talabalar AS t INNER JOIN guruhlar AS g
ON t.guruh_id = g.id

```

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

1-Topshiriq: Talabalar jadvali bilan Shartnomalar jadvalini biriktirib ikkala jadvaldagi barcha ustunni chiqarish so’rovini yozing, bunda talabalar jadvalining barcha qatorini va shartnomalar jadvalidagi unga mos qatorlarni qaytaring

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

 id	 shartnoma_turi
1	Grant
2	Kontrakt






Shartnomalar

Talabalar

**SELECT \***


**FROM** talabalar **LEFT JOIN** shartnomalar



**ON** talabalar.shartnoma\_id = shartnomalar.id

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



2-Topshiriq: Talabalar jadvali bilan Bosqichlar jadvalini biriktirib, Talabalar jadvalidan ism va familiya ustunini Bosqichlar jadvalidan bosqich ustunini chiqaring, bunda ikkala jadvaldagi qiymatlarga mos keladigan qatorlarni qaytaring

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

 id	 bosqich
1	1-kurs
2	2-kurs
3	3-kurs
4	4-kurs
5	5-kurs

Bosqichlar

Talabalar

```
SELECT talabalar.ism, talabalar.familiya, bosqichlar.bosqich
FROM talabalar INNER JOIN bosqichlar
ON talabalar.bosqich_id = bosqichlar.id
```

ism	familiya	 bosqich
Asadbek	Bekchanov	4-kurs
Shohista	Kamolova	3-kurs
Abdulla	Ismoilov	2-kurs
Nilufar	Abdullayeva	4-kurs
Umida	Tajiyeva	3-kurs
Temurbek	Raximberganov	3-kurs
Xalilla	O‘rinov	3-kurs
Ro‘zimboy	Norimbetov	4-kurs
Dostonbek	Sotliqov	2-kurs
Orzigul	Abdullayeva	1-kurs
Temur	Nurullayev	4-kurs
Egamberdi	Samandarov	3-kurs
Doniyor	Artikov	3-kurs