
MYSQL JOINS

REFERENCE BOOK

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MYSQL JOINS EXAMPLES

Table One data

```
DROP TABLE IF EXISTS `practice`.`tableone`;  
CREATE TABLE `practice`.`tableone` (  
  `id` int(10) unsigned NOT NULL AUTO_INCREMENT,  
  `name` varchar(45) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=latin1;
```

```
LOCK TABLES `tableone` WRITE;  
INSERT INTO `tableone`  
VALUES (1,'Adarsh')  
,(2,'Amit')  
,(3,'Radha')  
,(4,'Sonu')  
,(5,'Monu')  
,(6,'TableOne6')  
,(7,'TableOne7')  
,(8,'TableOne8')  
,(9,'TableOne9')  
,(10,'TableOne10');  
UNLOCK TABLES;
```

```
SELECT * FROM tableone t;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 2 x

SQL Query Area

```
1 SELECT * FROM tableone t;
```

id	name
1	Adarsh
2	Amit
3	Radha
4	Sonu
5	Monu
6	TableOne6
7	TableOne7
8	TableOne8
9	TableOne9
10	TableOne10

10 rows fetched in 0.0017s (0.0004s)

Edit Apply Changes Discard Changes First Last Search

Table Two data

```
DROP TABLE IF EXISTS `practice`.`tabletwo`;  
CREATE TABLE `practice`.`tabletwo` (  
  `id` int(10) unsigned NOT NULL AUTO_INCREMENT,  
  `name` varchar(45) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=latin1;
```

```
LOCK TABLES `tabletwo` WRITE;  
INSERT INTO `tabletwo`  
VALUES (1,'Adarsh')  
,(2,'Amit')  
,(3,'Radha')  
,(4,'Sonu')  
,(5,'Monu')  
,(6,'TableTwo6')  
,(7,'TableTwo7')  
,(8,'TableTwo8')  
,(9,'TableTwo8')  
,(10,'TableTwo10');  
UNLOCK TABLES;
```

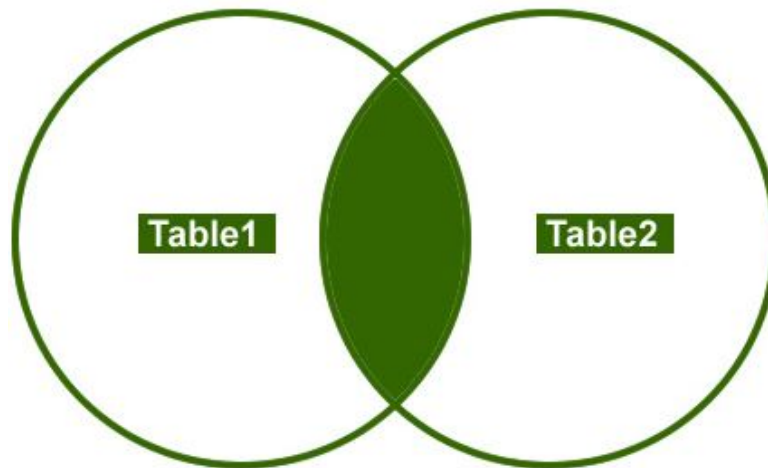
```
SELECT * FROM tabletwo t;
```

The screenshot shows the MySQL Query Browser interface. The title bar indicates the connection is 'MyLocal / practice'. The menu bar includes File, Edit, View, Query, Script, Tools, Window, and Help. The toolbar contains icons for various database operations. The SQL Query Area shows the query: `1 SELECT * FROM tabletwo t;`. The Results pane displays the query results in a table with two columns: 'id' and 'name'. The results are as follows:

id	name
1	Adarsh
2	Amit
3	Radha
4	Sonu
5	Monu
6	TableTwo6
7	TableTwo7
8	TableTwo8
9	TableTwo8
10	TableTwo10

The status bar at the bottom indicates '10 rows fetched in 0.0017s (0.0004s)'. The bottom of the image shows the Windows taskbar with various application icons.

INNER JOIN



```
SELECT
t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
TableOne t1 INNER JOIN TableTwo t2
ON t1.name = t2.name;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

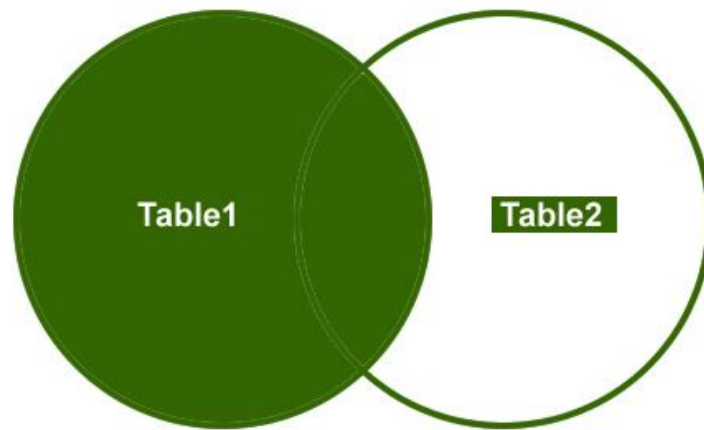
```
1 SELECT
2 t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 INNER JOIN TableTwo t2
8 ON t1.name = t2.name;
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
1	Adarsh	1	Adarsh
2	Amit	2	Amit
3	Radha	3	Radha
4	Sonu	4	Sonu
5	Monu	5	Monu

5 rows fetched in 0.0019s (0.0004s)

Edit Apply Changes Discard Changes First Last Search

LEFT OUTER JOIN



```
SELECT
  t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
  TableOne t1 LEFT OUTER JOIN TableTwo t2
ON t1.name = t2.name;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

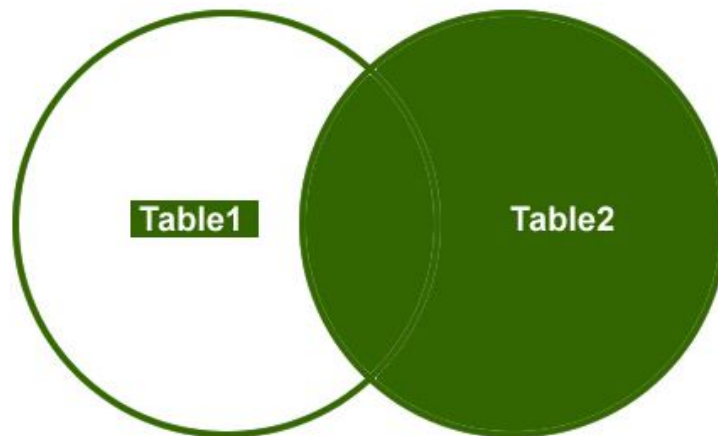
```
1 SELECT
2   t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 LEFT OUTER JOIN TableTwo t2
8 ON t1.name = t2.name;
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
1	Adarsh	1	Adarsh
2	Amit	2	Amit
3	Radha	3	Radha
4	Sonu	4	Sonu
5	Monu	5	Monu
6	TableOne6	NULL	NULL
7	TableOne7	NULL	NULL
8	TableOne8	NULL	NULL
9	TableOne9	NULL	NULL
10	TableOne10	NULL	NULL

10 rows fetched in 0.0020s (0.0006s)

Edit Apply Changes Discard Changes First Last Search

RIGHT OUTER JOIN



```
SELECT
  t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
  TableOne t1 RIGHT OUTER JOIN TableTwo t2
ON t1.name = t2.name;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

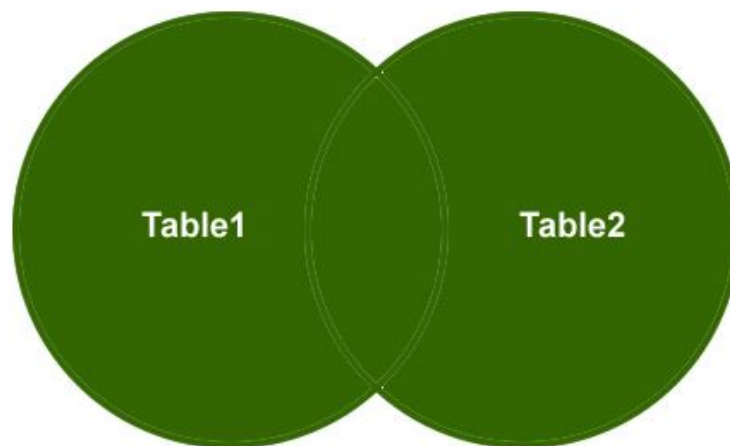
```
1 SELECT
2   t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 RIGHT OUTER JOIN TableTwo t2
8 ON t1.name = t2.name;
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
1	Adarsh	1	Adarsh
2	Amit	2	Amit
3	Radha	3	Radha
4	Sonu	4	Sonu
5	Monu	5	Monu
NULL	NULL	6	TableTwo6
NULL	NULL	7	TableTwo7
NULL	NULL	8	TableTwo8
NULL	NULL	9	TableTwo8
NULL	NULL	10	TableTwo10

10 rows fetched in 0.0035s (0.0006s)

Edit Apply Changes Discard Changes First Last Search

FULL OUTER JOIN



```

SELECT  t1.id tableOne_id ,t1.name tableOne_name ,t2.id tableTwo_id ,t2.name tableTwo_name
FROM TableOne t1 LEFT OUTER JOIN TableTwo t2
ON t1.name = t2.name
UNION
SELECT  t1.id tableOne_id ,t1.name tableOne_name ,t2.id tableTwo_id ,t2.name tableTwo_name
FROM TableOne t1 RIGHT OUTER JOIN TableTwo t2
ON t1.name = t2.name;
    
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

```

1 SELECT
2   t1.id tableOne_id
3   ,t1.name tableOne_name
4   ,t2.id tableTwo_id
5   ,t2.name tableTwo_name
6 FROM
7 TableOne t1 LEFT OUTER JOIN TableTwo t2
8 ON t1.name = t2.name
9 UNION
10 SELECT
11   t1.id tableOne_id
12   ,t1.name tableOne_name
13   ,t2.id tableTwo_id
14   ,t2.name tableTwo_name
15 FROM
16 TableOne t1 RIGHT OUTER JOIN TableTwo t2
17 ON t1.name = t2.name;
    
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
1	Adarsh	1	Adarsh
2	Amit	2	Amit
3	Radha	3	Radha
4	Sonu	4	Sonu
5	Monu	5	Monu
6	TableOne6	NULL	NULL
7	TableOne7	NULL	NULL
8	TableOne8	NULL	NULL
9	TableOne9	NULL	NULL
10	TableOne10	NULL	NULL
NULL	NULL	6	TableTwo6
NULL	NULL	7	TableTwo7
NULL	NULL	8	TableTwo8
NULL	NULL	9	TableTwo9
NULL	NULL	10	TableTwo10

15 rows fetched in 0.0037s (0.0012s)

Edit Apply Changes Discard Changes First Last Search

CROSS JOIN

```
SELECT
t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
TableOne t1 JOIN TableTwo t2;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

```
1 SELECT
2 t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 JOIN TableTwo t2;
```

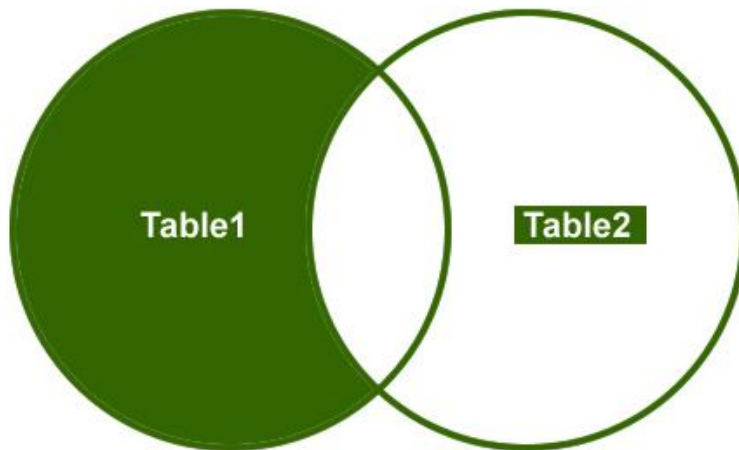
tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
1	Adarsh	1	Adarsh
2	Amit	1	Adarsh
3	Radha	1	Adarsh
4	Sonu	1	Adarsh
5	Monu	1	Adarsh
6	TableOne6	1	Adarsh
7	TableOne7	1	Adarsh
8	TableOne8	1	Adarsh
9	TableOne9	1	Adarsh
10	TableOne10	1	Adarsh
1	Adarsh	2	Amit
2	Amit	2	Amit
3	Radha	2	Amit
4	Sonu	2	Amit
5	Monu	2	Amit
6	TableOne6	2	Amit
7	TableOne7	2	Amit
8	TableOne8	2	Amit
9	TableOne9	2	Amit
10	TableOne10	2	Amit
1	Adarsh	3	Radha
2	Amit	3	Radha
3	Radha	3	Radha

100 rows fetched in 0.0039s (0.0006s)

Edit Apply Changes Discard Changes First Last Search

7:13

LEFT OUTER JOIN - WHERE NULL



```
SELECT
  t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
  TableOne t1 LEFT OUTER JOIN TableTwo t2
ON t1.name = t2.name
WHERE t2.name IS NULL;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 x Resultset 3

SQL Query Area

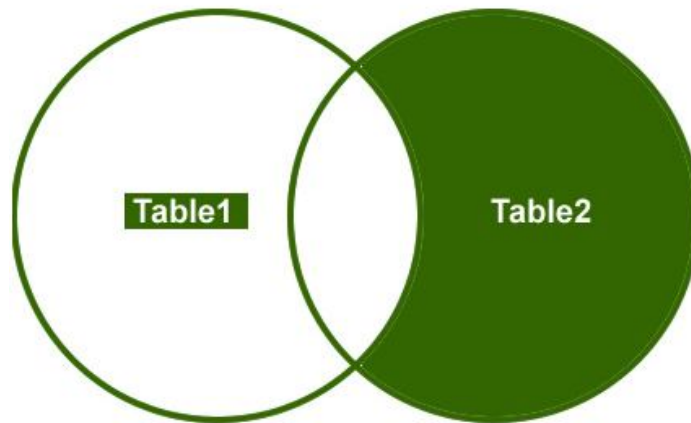
```
1 SELECT
2   t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 LEFT OUTER JOIN TableTwo t2
8 ON t1.name = t2.name
9 WHERE t2.name IS NULL;
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
6	TableOne6	NULL	NULL
7	TableOne7	NULL	NULL
8	TableOne8	NULL	NULL
9	TableOne9	NULL	NULL
10	TableOne10	NULL	NULL

5 rows fetched in 0.0015s (0.0005s)

Edit Apply Changes Discard Changes First Last Search

RIGHT OUTER JOIN - WHERE NULL



```
SELECT
  t1.id tableOne_id
,t1.name tableOne_name
,t2.id tableTwo_id
,t2.name tableTwo_name
FROM
  TableOne t1 RIGHT OUTER JOIN TableTwo t2
  ON t1.name = t2.name
WHERE t1.name IS NULL;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare SELECT FROM WHERE GROUP HAVING ORDER SET CREATE

Resultset 1 Resultset 3

SQL Query Area

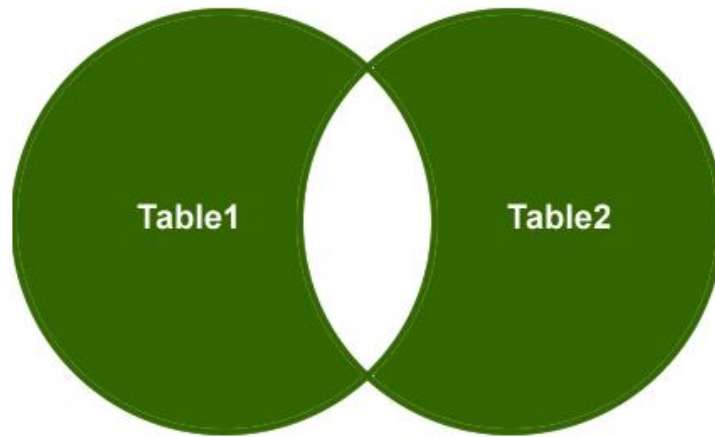
```
1 SELECT
2   t1.id tableOne_id
3 ,t1.name tableOne_name
4 ,t2.id tableTwo_id
5 ,t2.name tableTwo_name
6 FROM
7 TableOne t1 RIGHT OUTER JOIN TableTwo t2
8   ON t1.name = t2.name
9 WHERE t1.name IS NULL;
10
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
NULL	NULL	6	TableTwo6
NULL	NULL	7	TableTwo7
NULL	NULL	8	TableTwo8
NULL	NULL	9	TableTwo8
NULL	NULL	10	TableTwo10

5 rows fetched in 0.0013s (0.0003s)

Edit Apply Changes Discard Changes First Last Search

OUTER JOIN - WHERE NULL



```
SELECT
  t1.id tableOne_id ,t1.name tableOne_name ,t2.id tableTwo_id ,t2.name tableTwo_name
FROM TableOne t1 LEFT OUTER JOIN TableTwo t2
ON t1.name = t2.name
WHERE t2.id IS NULL
UNION
SELECT  t1.id tableOne_id ,t1.name tableOne_name ,t2.id tableTwo_id ,t2.name tableTwo_name
FROM TableOne t1 RIGHT OUTER JOIN TableTwo t2
ON t1.name = t2.name
WHERE t1.id IS NULL;
```

MySQL Query Browser - Connection: MyLocal / practice

File Edit View Query Script Tools Window Help

Transaction Explain Compare

Resultset 1 Resultset 3

SQL Query Area

```
1 SELECT
2   t1.id tableOne_id
3   ,t1.name tableOne_name
4   ,t2.id tableTwo_id
5   ,t2.name tableTwo_name
6 FROM
7 TableOne t1 LEFT OUTER JOIN TableTwo t2
8 ON t1.name = t2.name
9 WHERE t2.id IS NULL
10 UNION
11 SELECT
12   t1.id tableOne_id
13   ,t1.name tableOne_name
14   ,t2.id tableTwo_id
15   ,t2.name tableTwo_name
16 FROM
17 TableOne t1 RIGHT OUTER JOIN TableTwo t2
18 ON t1.name = t2.name
19 WHERE t1.id IS NULL;
```

tableOne_id	tableOne_name	tableTwo_id	tableTwo_name
6	TableOne6	NULL	NULL
7	TableOne7	NULL	NULL
8	TableOne8	NULL	NULL
9	TableOne9	NULL	NULL
10	TableOne10	NULL	NULL
NULL	NULL	6	TableTwo6
NULL	NULL	7	TableTwo7
NULL	NULL	8	TableTwo8
NULL	NULL	9	TableTwo8
NULL	NULL	10	TableTwo10

10 rows fetched in 0.0040s (0.0010s)

Edit Apply Changes Discard Changes First Last Search