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## Difference between inner and outer join

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What is the difference between INNER JOIN and OUTER JOIN ?

1324

sql

join

inner-join

outer-join



718

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edited Sep 1 '12 at 9:28



hims056

12.9k 10 28 57

asked Sep 1 '08 at 22:36



cdv

9,040 4 16 24

### 13 Answers

active

oldest

votes

Assuming you're joining on columns with no duplicates, which is by far the most common case:

2183

- An inner join of A and B gives the result of A intersect B, i.e. the inner part of a venn diagram intersection.
- An outer join of A and B gives the results of A union B i.e. the outer parts of a venn diagram union

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- An outer join of A and B gives the results of A union B, i.e. the outer parts of a Venn diagram union.

## Examples

Suppose you have two Tables, with a single column each, and data as follows:

A	B
-	-
1	3
2	4
3	5
4	6

Note that (1,2) are unique to A, (3,4) are common, and (5,6) are unique to B.

## Inner join

An inner join using either of the equivalent queries gives the intersection of the two tables, i.e. the two rows they have in common.

```
select * from a INNER JOIN b on a.a = b.b;
select a.*,b.* from a,b where a.a = b.b;
```

a	b
---	---
3	3
4	4

## Left outer join

A left outer join will give all rows in A, plus any common rows in B.

```
select * from a LEFT OUTER JOIN b on a.a = b.b;
select a.*,b.* from a,b where a.a = b.b(+);
```

a	b
---	-----
1	null
2	null
3	3
4	4

Olo

New York, NY

[iOS Developer \(Full-Time, Remote Considered\)](#)

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## Full outer join

A full outer join will give you the union of A and B, i.e. All the rows in A and all the rows in B. If something in A doesn't have a corresponding datum in B, then the B portion is null, and vice versa.

```
select * from a FULL OUTER JOIN b on a.a = b.b;
```

a	b
1	null
2	null
3	3
4	4
null	6
null	5

share | improve this answer

edited Mar 12 '12 at 18:18



Peter Mortensen

7,087 ●8 ●49 ●80

answered Sep 1 '08 at 22:59



Mark Harrison

71.1k ●63 ●181 ●281

---

**243** Excellently explained – [HLGEM](#) Nov 24 '08 at 22:22

---

**27** One of the best explanations I have seen! – [Lea Hayes](#) Apr 25 '11 at 16:35

---

**94** An excellent explanation, however this statement: *An outer join of A and B gives the results of A union B, i.e. the outer parts of a venn diagram union.* isn't phrased accurately. An outer join will give the results of A intersect B in addition to one of the following: all of A (left join), all of B (right join) or all of A and all of B (full join). Only this last scenario is really A union B. Still, a well written explanation. – [Thomas](#) May 3 '11 at 19:57

---

**25** Simple explanations are often the best. This FAR EXCEEDS the Wikipedia on joins haha. Truly excellent examples with just enough data to see a clear picture. Thanks Mark :) – [Chiramisu](#) Aug 2 '11 at 18:26

---

**4** Using Venn diagrams in the explanation instantly helped me understand! – [emurano](#) Oct 13 '11 at 3:50

---

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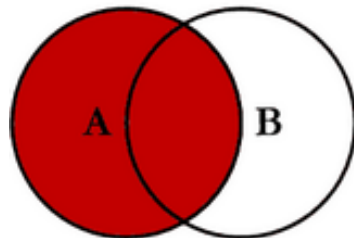
**231** INNER JOIN ON vs



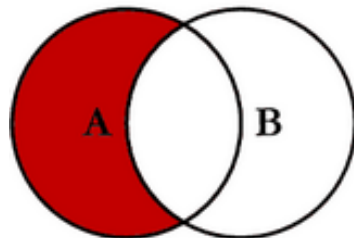
Also you can consider following schema for different join types;

488

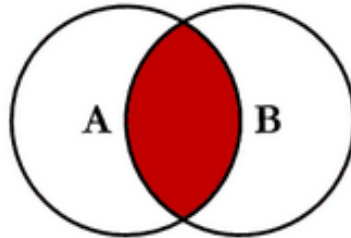
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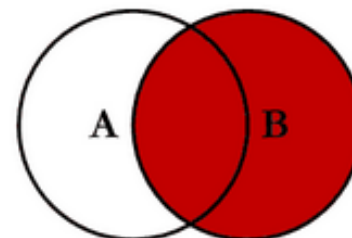
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
```



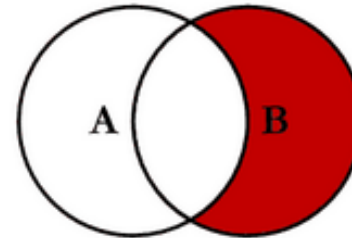
```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
WHERE B.Key IS NULL
```



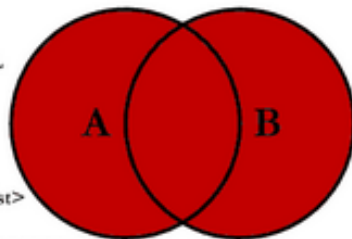
```
SELECT <select_list>
FROM TableA A
INNER JOIN TableB B
ON A.Key = B.Key
```



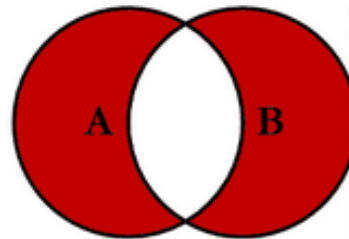
```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
```



```
SELECT <select_list>
FROM TableA A
RIGHT JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
```



```
SELECT <select_list>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.Key = B.Key
WHERE A.Key IS NULL
OR B.Key IS NULL
```

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WHERE clause

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Source: <http://www.codeproject.com/Articles/33052/Visual-Representation-of-SQL-Joins>

share | improve this answer

edited Jan 11 at 19:37

answered May 16 '13 at 23:03

41 A classic example of when a picture is more worth than hundreds words ... — [aleroot](#) Aug 31 '13 at 11:53

I wish I could give this visual representation more than one votes! It has helped my understanding immensely. — [mezoid](#) Mar 7 at 3:15

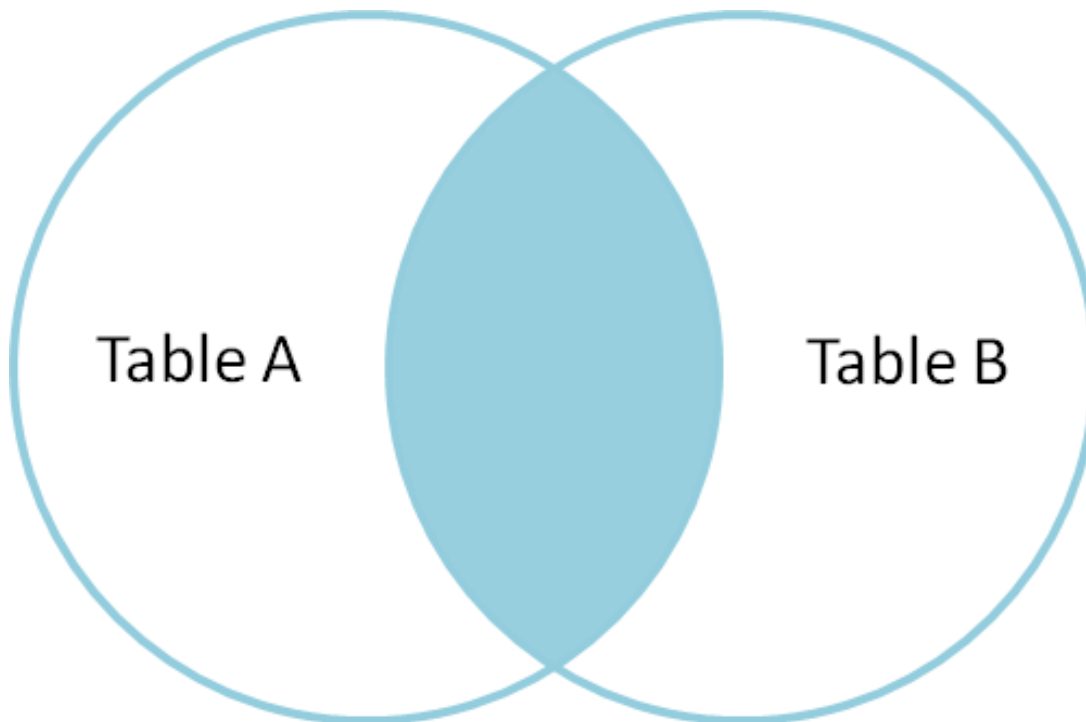
I know this is old, but I'm doing some training sessions for some of our employee's here on Crystal Reports/SQL and this will come in Immensely handy! Thanks~! — [Evan L](#) Mar 10 at 22:49

Note: There's no FULL OUTER JOIN in MySQL. [stackoverflow.com/questions/12473210/](https://stackoverflow.com/questions/12473210/) ... — [Michael Ozeryansky](#) Mar 25 at 2:25

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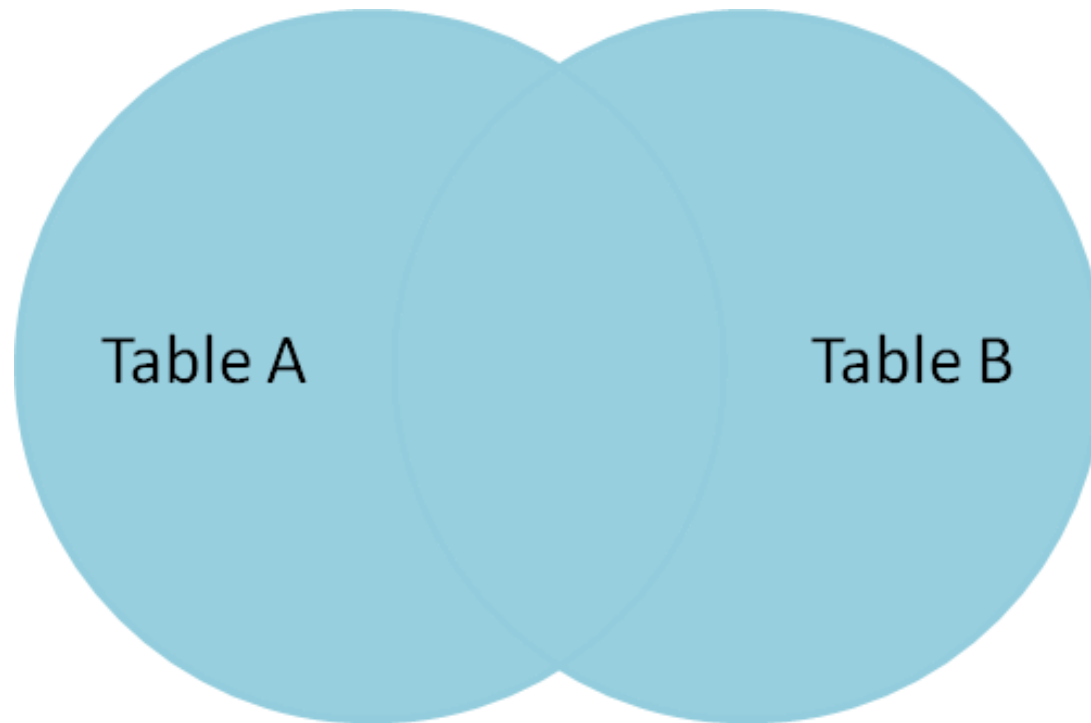
322 I recommend [Jeff's blog article](#). The best description I've ever seen, plus there is a visualization, e.g.:

Inner Join:



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## Full Outer Join:




share | improve this answer

edited Mar 10 at 22:29

answered Aug 30 '09 at 11:52

 Dan  
659 7 25








 ya23  
6,048 2 27 29

17 This diagram is a bit misleading for the concept. Read the comments in the post as well. – Pratik Aug 30 '09 at 12:56

3 Excellent explanation that allows to remember the meaning! – Budda Apr 20 '12 at 16:44

@ya23: what does you mean by full outer join? – ursitesion Feb 12 at 9:20

add comment

-  How can Data lose a chess game?
-  What do you call the child who doesn't resemble his / her parents in English?
-  How do I say in german "car parking fine lawyer"?
-  Antonym of "exodus"
-  In-place reversal of a singly linked list
-  Do we need waves for fields?
-  Which beamer theme is this?  
Or how to create the one like this

137 The following was taken from the article "[MySQL - LEFT JOIN and RIGHT JOIN, INNER JOIN and OUTER JOIN](#)" by Graham Ellis on his blog Horse's Mouth.

In a database such as MySQL, data is divided into a number of tables which are then connected ( Joined ) together by `JOIN` in `SELECT` commands to read records from multiple tables. Read this

example to see how it works.

First, some sample data:

people

```
mysql> select * from people;
```

name	phone	pid
Mr Brown	01225 708225	1
Miss Smith	01225 899360	2
Mr Pullen	01380 724040	3

3 rows in set (0.00 sec)

property

```
mysql> select * from property;
```

pid	spid	selling
1	1	Old House Farm
3	2	The Willows
3	3	Tall Trees
3	4	The Melksham Florist
4	5	Dun Roamin

5 rows in set (0.00 sec)

## REGULAR JOIN

If we do a regular JOIN (with none of the keywords INNER, OUTER, LEFT or RIGHT), then we get all records that match in the appropriate way in the two tables, and records in both incoming tables that do not match are not reported:

```
mysql> select name, phone, selling
from people join property
on people.pid = property.pid;
```

name	phone	selling
------	-------	---------



```
+-----+-----+-----+
| Mr Brown | 01225 708225 | Old House Farm |
| Mr Pullen | 01380 724040 | The Willows |
| Mr Pullen | 01380 724040 | Tall Trees |
| Mr Pullen | 01380 724040 | The Melksham Florist |
+-----+-----+-----+
4 rows in set (0.01 sec)
```

## LEFT JOIN

If we do a LEFT JOIN, we get all records that match in the same way and IN ADDITION we get an extra record for each unmatched record in the left table of the join - thus ensuring (in this example) that every PERSON gets a mention:

```
mysql> select name, phone, selling
       from people left join property
       on people.pid = property.pid;
```

```
+-----+-----+-----+
| name      | phone      | selling      |
+-----+-----+-----+
| Mr Brown  | 01225 708225 | Old House Farm |
| Miss Smith | 01225 899360 | NULL <-- unmatched |
| Mr Pullen | 01380 724040 | The Willows |
| Mr Pullen | 01380 724040 | Tall Trees |
| Mr Pullen | 01380 724040 | The Melksham Florist |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

## RIGHT JOIN

If we do a RIGHT JOIN, we get all the records that match and IN ADDITION an extra record for each unmatched record in the right table of the join - in my example, that means that each property gets a mention even if we don't have seller details:

```
mysql> select name, phone, selling
       from people right join property
       on people.pid = property.pid;
```

```
+-----+-----+-----+
| name      | phone      | selling      |
+-----+-----+-----+
```



```

+-----+-----+-----+
| Mr Brown | 01225 708225 | Old House Farm |
| Mr Pullen | 01380 724040 | The Willows |
| Mr Pullen | 01380 724040 | Tall Trees |
| Mr Pullen | 01380 724040 | The Melksham Florist |
| NULL | NULL | Dun Roamin |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

An INNER JOIN does a full join, just like the first example, and the word OUTER may be added after the word LEFT or RIGHT in the last two examples - it's provided for ODBC compatibility and doesn't add an extra capabilities.

share | improve this answer

edited Jan 5 '13 at 11:21

answered Feb 14 '11 at 5:53



Philho

22.6k 1 38 79



gt\_ebuddy

5,791 2 34 51

Thanks For explaining Regular Join Also – [Ranjit Kumar](#) Jun 7 '13 at 10:18

2 **REGULAR JOIN** and **INNER JOIN** are the same thing. What Graham Ellis wanted to say whit **REGULAR** is that **INNER JOIN** is the "default" JOIN, when none of **LEFT** or **RIGHT** keywords were specified. If you read the whole post, in the end He says "An INNER JOIN does a full join, just like the first example, and the word OUTER may be added after the word LEFT or RIGHT in the last two examples - it's provided for ODBC compatibility and doesn't add an extra capabilities." – [vegatripy](#) Aug 19 '13 at 11:04

add comment

▲ A (left) inner join only shows rows if there is a matching record on the other (right) side of the join.

35 ▼ A (left) outer join shows rows for each record on the left hand side, even if there are no matching rows on the other (right) side of the join. If there is no matching row, the columns for the other (right) side would show NULLs.

share | improve this answer

answered Sep 1 '08 at 22:38



1800 INFORMATION

53.3k 14 98 170

add comment

Joins can be categorized as:

**Inner joins** (the typical join operation, which uses some comparison operator like = or <>). These include equi-joins and natural joins.

Inner joins use a comparison operator to match rows from two tables based on the values in common columns from each table. For example, retrieving all rows where the student identification number is the same in both the students and courses tables.

**Outer joins.** Outer joins can be a left, a right, or full outer join.

Outer joins are specified with one of the following sets of keywords when they are specified in the FROM clause:

**LEFT JOIN or LEFT OUTER JOIN** -The result set of a left outer join includes all the rows from the left table specified in the LEFT OUTER clause, not just the ones in which the joined columns match. When a row in the left table has no matching rows in the right table, the associated result set row contains null values for all select list columns coming from the right table.

**RIGHT JOIN or RIGHT OUTER JOIN** - A right outer join is the reverse of a left outer join. All rows from the right table are returned. Null values are returned for the left table any time a right table row has no matching row in the left table.

**FULL JOIN or FULL OUTER JOIN** - A full outer join returns all rows in both the left and right tables. Any time a row has no match in the other table, the select list columns from the other table contain null values. When there is a match between the tables, the entire result set row contains data values from the base tables.

**Cross joins** - Cross joins return all rows from the left table, each row from the left table is combined with all rows from the right table. Cross joins are also called Cartesian products. (A Cartesian join will get you a Cartesian product. A Cartesian join is when you join every row of one table to every row of another table. You can also get one by joining every row of a table to every row of itself.)

share | improve this answer

edited Jun 11 '12 at 22:13



David Manheim  
1,305 ●7 ●23

answered Apr 5 '12 at 19:04



zaid abbas  
259 ●2 ●2

3 -1 looks messy in comparison to previous answers. Pay more attention to structuring. – Timur Sadykov Apr 10 '12 at 23:51

8 Agree- presentation matters. On the other hand, you always have the option of editing the answer. –

add comment



in simple words

22



**inner join** retrieve the matched rows only

where as

**outer join** retrieve the matched rows from one table and all rows in other table ....the result depend on which one you are using

**LEFT** ( MATCHED ROWS IN RIGHT TABLE AND ALL ROWS IN LEFT TABLE )

**RIGHT** ( MATCHED ROWS IN LEFT TABLE AND ALL ROWS IN RIGHT TABLE ) or

**FULL** ( ALL ROWS IN ALL TABLES IT DOESN'T MATTERS EVEN MATCH IS THERE OR NOT )

share | improve this answer

answered Jan 12 '13 at 11:07



vidyadhar

875 ● 2 ● 14

add comment



Inner joins require that a record with a related ID exist in the joined table.

19



Outer joins will return records for the left side even if nothing exists for the right side.

For instance, you have an Orders and an OrderDetails table. They are related by an "OrderID".

### Orders

- OrderID
- CustomerName

### OrderDetails

- OrderDetailID
- OrderID
- ProductName

- Qty
- Price

The request

```
SELECT Orders.OrderID, Orders.CustomerName FROM Orders
INNER JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
```

will only return Orders that also have something in the OrderDetails table.

If you change it to OUTER LEFT JOIN

```
SELECT Orders.OrderID, Orders.CustomerName FROM Orders
LEFT JOIN OrderDetails ON Orders.OrderID = OrderDetails.OrderID
```

then it will return records from the Orders table even if they have no OrderDetails records.

You can use this to find Orders that do not have any OrderDetails indicating a possible orphaned order by adding a where clause like `WHERE OrderDetails.OrderID IS NULL`.

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[edited Jan 5 '13 at 11:02](#)

[answered Sep 1 '08 at 22:47](#)



[PhiLho](#)

22.6k 1 38 79



[Brian Boatright](#)

7,762 19 57 82

---

I appreciate the simple yet realistic example. I changed a request like `SELECT c.id, c.status, cd.name, c.parent_id, cd.description, c.image FROM categories c, categories_description cd WHERE c.id = cd.categories_id AND c.status = 1 AND cd.language_id = 2 ORDER BY c.parent_id ASC` to `SELECT c.id, c.status, cd.name, c.parent_id, cd.description, c.image FROM categories c INNER JOIN categories_description cd ON c.id = cd.categories_id WHERE c.status = 1 AND cd.language_id = 2 ORDER BY c.parent_id ASC` (MySQL) with success. I wasn't sure about the additional conditions, they mix well... – [PhiLho](#) Jan 5 '13 at 11:11

---

[add comment](#)



13

`INNER JOIN` requires there is at least a match in comparing the two tables. For example, table A and table B which implies  $A \cap B$  (A intersection B).

`LEFT OUTER JOIN` and `LEFT JOIN` are the same. It gives all the records matching in both tables and

all possibilities of the left table.

Similarly, `RIGHT OUTER JOIN` and `RIGHT JOIN` are the same. It gives all the records matching in both tables and all possibilities of the right table.

`FULL JOIN` is the combination of `LEFT OUTER JOIN` and `RIGHT OUTER JOIN` without duplication.

share | improve this answer

edited Sep 26 '13 at 21:25



answered Sep 2 '10 at 9:49



add comment



You use `INNER JOIN` to return all rows from both tables where there is a match. ie. in the resulting table all the rows and columns will have values.

In `OUTER JOIN` the resulting table may have empty columns. Outer join may be either `LEFT` or `RIGHT`

`LEFT OUTER JOIN` returns all the rows from the first table, even if there are no matches in the second table.

`RIGHT OUTER JOIN` returns all the rows from the second table, even if there are no matches in the first table..

share | improve this answer

answered Sep 27 '12 at 7:33



---

1 This question was asked over four years ago, and had 17 answers before yours. In what way does your answer improve upon those that already exist? – [John Saunders](#) Oct 2 '12 at 19:15

---

add comment

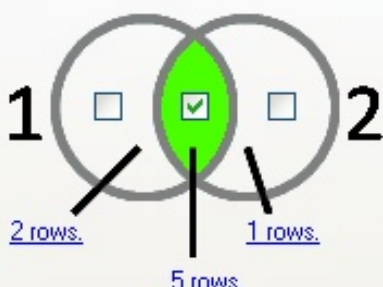


## Inner Join

Retrieve the matched rows only i.e `A intersect B`

Block Name  Join Block

Join Type



Block output (Inner Join) 5 rows.

Student_Name	Advisor_Name
Student_1	Advisor 1
Student_5	Advisor 3
Student_7	Advisor 3
Student_9	Advisor 1
Student_10	Advisor 3


```
SELECT *
FROM dbo.Students S
INNER JOIN dbo.Advisors A
ON S.Advisor_ID = A.Advisor_ID
```

## Left Outer Join

select all records from the first table, and any records in the second table that match the joined keys.

Block Name  Join Block

Join Type



[Show Output](#) Block output (Outer Join on Input 1) 7 rows.

Student_Name	Advisor_Name
Student_2	_null_
Student_4	_null_
Student_1	Advisor 1
Student_5	Advisor 3
Student_7	Advisor 3
Student_9	Advisor 1
Student_10	Advisor 3

```
SELECT *
FROM dbo.Students S
LEFT JOIN dbo.Advisors A
ON S.Advisor_ID = A.Advisor_ID
```

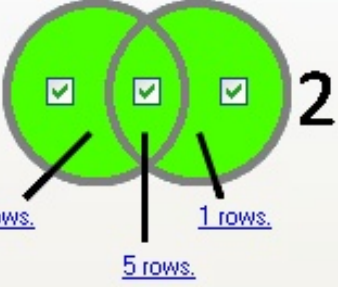
## Full Outer Join

select all records from the second table, and any records in the first table that match the joined keys.



Block Name  Join Block

Join Type Full Outer Join

**1**  **2**

2 rows. 5 rows. 1 rows.

[Show Output](#) Block output (Full Outer Join) 8 rows.

Student_Name	Advisor_Name
Student_2	_null_
Student_4	_null_
Student_1	Advisor 1
Student_5	Advisor 3
Student_7	Advisor 3
Student_9	Advisor 1
Student_10	Advisor 3
_null_	Advisor 5

```
SELECT *
FROM dbo.Students S
FULL JOIN dbo.Advisors A
ON S.Advisor_ID = A.Advisor_ID
```

## Reference

[Inner and outer joins SQL examples and the Join block](#)

[SQL: JOINS](#)

share | improve this answer

answered Jan 27 at 12:16



[Tushar Gupta](#)

24.7k ● 11 ● 21 ● 39

3 What is the name of tool? I find it is interesting as it shows number of rows and venn-diagrams –

[Grijesh Chauhan](#) Jan 27 at 12:23

1 @GrijeshChauhan [Datamartist](#) :) – [Tushar Gupta](#) Jan 27 at 12:25

1 @Trushar :( it is not for Linux system.. – [Grijesh Chauhan](#) Jan 27 at 12:27

1 @GrijeshChauhan Yeah But you can Try to run it using [wine](#) . – Tushar Gupta Jan 27 at 12:30

1 @GrijeshChauhan All the best, Let me know if u get successful :) – Tushar Gupta Jan 27 at 12:38

show 1 more comment



The difference is in the way tables are joined if there are no common records.

6

- `JOIN` is same as `INNER JOIN` and means to only show records common to both tables. Whether the records are common is determined by the fields in join clause. For example:

```
FROM t1
JOIN t2 on t1.ID = t2.ID
```

means show only records where the same `ID` value exists in both tables.

- `LEFT JOIN` is same as `LEFT OUTER JOIN` and means to show all records from left table (i.e. the one that precedes in SQL statement) regardless of the existence of matching records in the right table.
- `RIGHT JOIN` is same as `RIGHT OUTER JOIN` and means opposite of `LEFT JOIN`, i.e. shows all records from the second (right) table and only matching records from first (left) table.

Source: [What's the difference between LEFT, RIGHT, INNER, OUTER, JOIN?](#)

share | improve this answer

edited Sep 18 '13 at 7:33



JJD

6,655 ● 6 ● 36 ● 84

answered Sep 18 '13 at 2:36



Aldee Matiwo

687 ● 15 ● 33

add comment



I don't see much details about performance and optimizer in the other answers.

3

Sometimes it is good to know that only inner join is associative which means the optimizer has the most option to play with it. It can reorder the join order to make it faster keeping the same result. The optimizer can use the most join modes.

Generally it is a good practice to try to use inner joins instead of the different kind of outers.

share | improve this answer

answered Nov 17 '13 at 12:59

[add comment](#)

protected by **Kev** Jul 21 '12 at 21:51

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Stack Overflow	Programmers	Database Administrators	Photography	English Language & Usage	Mathematics	Stack Apps
Server Fault	Unix & Linux		Science Fiction & Fantasy		Cross Validated (stats)	Meta Stack Overflow
Super User	Ask Different (Apple)	Drupal Answers		Skeptics		Area 51
Web Applications	WordPress Development	SharePoint	Seasoned Advice (cooking)	Mi Yodeya (Judaism)	Theoretical Computer Science	Stack Overflow Careers
Ask Ubuntu		User Experience	Home Improvement	Travel	Physics	
Webmasters	Geographic Information Systems	Mathematica	Personal Finance & Money	Christianity	MathOverflow	
Game Development	Electrical Engineering	<b>more (14)</b>	<b>more (12)</b>	Arqade (gaming)	<b>more (7)</b>	
TeX - LaTeX	Android Enthusiasts			Bicycles		
	Information Security			Role-playing Games		
				<b>more (21)</b>		

