

TSQL JOIN Types Poster (version 4.1)

After someone reported a small bug in the "two INNER JOINS" diagram, I have created an update to the poster. This is update 4.1, only a minor version upgrade due to only a small change. The think I love about the SQL Server community is the positive feedback that people give to help improve things.

So many times I have been asked for help with a query, where the question really comes down to the understanding of the difference between INNER and LEFT or RIGHT JOINS. I created this poster a few years ago and I keep it posted on the wall at the office. This way when I am trying to explain JOIN types, I just refer to the poster.

I have created the poster below to help describe JOIN types in SQL Server. This had lead to lots of confusion over time, and this is the best way that I have seen to describe them.

- Version 4 of the poster contains 3 new Venn diagrams, INTERSECT, UNION, and EXCEPT. This caused the poster to need to be split onto 2 pages.
- Version 4.1 is just a bug fix on the "two INNER JOINS" diagram, and a page added at the end with details on the free [Database Health Monitor](#) download.

If you are looking for the [MySQL version of the poster, click here](#).

[Click to download the TSqlJoinTypePoster.pdf](#)

[Steve Stedman](http://stevestedman.com) [read the TSqlJoinTypePoster.pdf](#) The diagram shows the following: INNER JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN, SEMI JOIN, ANTI SEMI JOIN, LEFT OUTER JOIN with exclusion, RIGHT OUTER JOIN with exclusion, FULL OUTER JOIN, CROSS JOIN, FULL OUTER JOIN with exclusion, CROSS APPLY, OUTER APPLY, two INNER JOINS, two FULL OUTER JOINS, INNER JOIN and a LEFT OUTER JOIN, two LEFT OUTER JOINS, INTERSECT, UNION, and EXCEPT.

If you are interested in printing out the poster, download the [TSqlJoinTypePoster.pdf](#) file and print it.

See Also:

- [T-SQL INNER JOIN](#)
- [TSQL LEFT OUTER JOIN and RIGHT OUTER JOIN](#)
- [TSQL FULL OUTER JOIN vs CROSS JOIN](#)
- [MySQL JOIN Poster](#)