

Left Join vs Right Join

Left Join: Returns all records from the *left table* and matched records from the right table. Unmatched records in the right table are filled with NULLs.

Right Join: Returns all records from the *right table* and matched records from the left table. Unmatched records in the left table are filled with NULLs.

On clause Vs using clause

ON clause: Works with different column names and complex conditions.

USING clause: Only works when both tables have a common column with the same name.

Natural Join vs Inner Join

Inner Join: Requires an explicit condition with the *ON clause* and works even if column names differ.

Natural Join: Automatically joins on all columns with the same names; no need for an explicit condition, but it can be less clear and harder to control.

Inner Join vs Left Join

Inner Join: Only returns rows with matches in both tables.

Left Join: Returns all rows from the left table, with NULLs for non-matching rows in the right table.