**TSQL JOIN TYPES**

Created by Steve Stedman

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**SELECT * FROM Table_1**

**SELECT * FROM Table_2**

**SELECT * FROM Table_1 t1 INNER JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 LEFT JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 RIGHT JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 LEFT OUTER JOIN Table_2 t2 ON t1.id = t2.fk WHERE t2.fk is null;**

**SELECT * FROM Table_1 t1 RIGHT OUTER JOIN Table_2 t2 ON t1.id = t2.fk WHERE t1.id is null;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk WHERE t2.fk is null OR t2.fk is null;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk FULL OUTER JOIN Table_3 t3 ON t1.id = t3.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk FULL OUTER JOIN Table_3 t3 ON t1.id = t3.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk;**

**SELECT * FROM Table_1 t1 FULL OUTER JOIN Table_2 t2 ON t1.id = t2.fk FULL OUTER JOIN Table_3 t3 ON t1.id = t3.fk;**

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**SEMIL JOIN** – Similar to INNER JOIN, with less duplication from Table 2.

**LEFT OUTER with exclusion** – replacement for a NOT IN

**FULL OUTER JOIN**

**FULL OUTER JOIN with exclusion** – replacement for a double NOT IN

**CROSS JOIN, like a FULL OUTER JOIN with out specifying JOIN condition.**

**Two INNER JOINS**

**INNER JOIN and a LEFT OUTER JOIN**

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**LEFT OUTER JOIN**

**RIGHT OUTER JOIN**

**ANTI SEMI JOIN**

**replacement for a NOT IN**

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