

SQL JOIN TYPES SIMPLIFIED

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CREATE BY - ATUL KUMAR (LINKEDIN)



```
SELECT *  
FROM Table1;  
  
SELECT *  
FROM Table2;
```

SELECT from two tables



```
SELECT *  
FROM Table1 t1  
INNER JOIN Table2 t2  
ON t1.fk = t2.id;
```

INNER JOIN



```
SELECT *  
FROM Table1 t1  
LEFT OUTER JOIN Table2 t2  
ON t1.fk = t2.id;
```

LEFT OUTER JOIN



```
SELECT *  
FROM Table1 t1  
RIGHT OUTER JOIN Table2 t2  
ON t1.fk = t2.id;
```

RIGHT OUTER JOIN



```
SELECT *  
FROM Table1 t1  
WHERE EXISTS (SELECT 1  
FROM Table2 t2  
WHERE t1.fk = t2.id  
);
```

SEMI JOIN



```
SELECT *  
FROM Table1 t1  
WHERE NOT EXISTS (SELECT 1  
FROM Table2 t2  
WHERE t1.fk = t2.id  
);
```

ANTI SEMI JOIN



```
SELECT *  
FROM Table1 t1  
LEFT OUTER JOIN Table2 t2  
ON t1.fk = t2.id  
WHERE t2.id IS NULL;
```

LEFT OUTER JOIN with exclusion
- replacement for a NOT IN



```
SELECT *  
FROM Table1 t1  
RIGHT OUTER JOIN Table2 t2  
ON t1.fk = t2.id  
WHERE t1.fk IS NULL;
```

RIGHT OUTER JOIN with exclusion
- replacement for a NOT IN



```
SELECT *  
FROM Table1 t1  
FULL OUTER JOIN Table2 t2  
ON t1.fk = t2.id;
```

FULL OUTER JOIN



```
SELECT *  
FROM Table1 t1  
CROSS JOIN Table2 t2;
```

CROSS JOIN, the Cartesian product



```
SELECT *  
FROM Table1 t1  
FULL OUTER JOIN Table2 t2  
ON t1.fk = t2.id  
WHERE t1.fk IS NULL  
OR t2.id IS NULL;
```

FULL OUTER JOIN with exclusion



```
SELECT *  
FROM Table1 t1  
INNER JOIN Table2 t2  
ON t1.fk >= t2.id;
```

NON-EQUI INNER JOIN

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SJ Ball



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