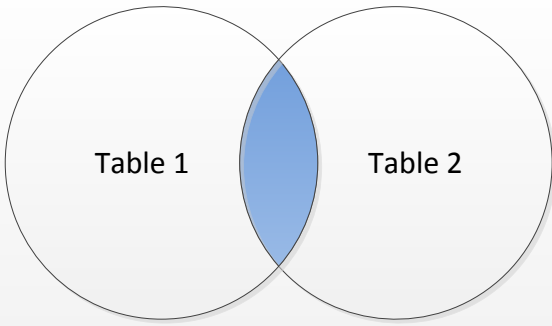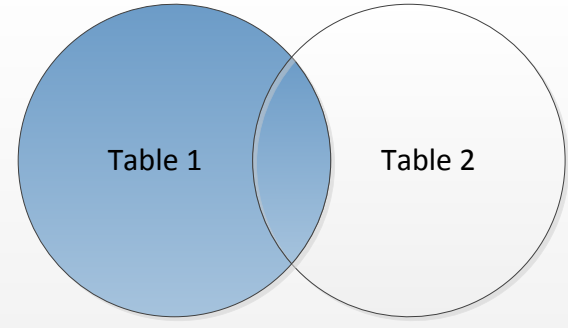```
SELECT *
  FROM Table_1;

SELECT *
  FROM Table_2;
```
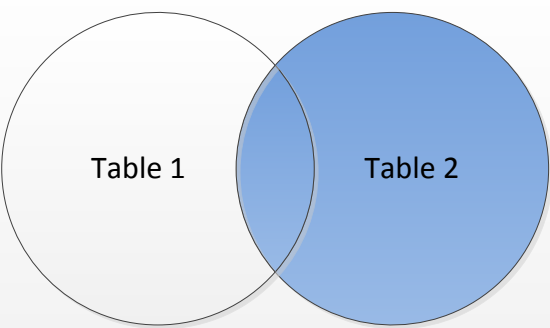SELECT from two tables

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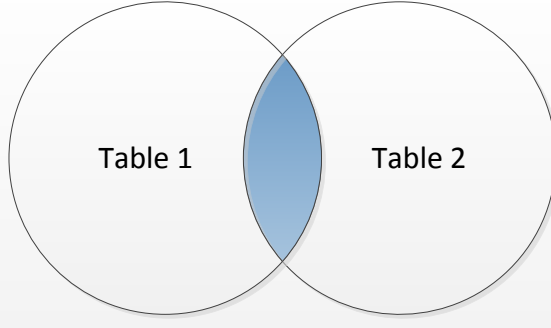INNER JOIN

```
SELECT *
  FROM Table_1 t1
  LEFT JOIN Table_2 t2
    ON t1.id = t2.fk;
```
LEFT OUTER JOIN
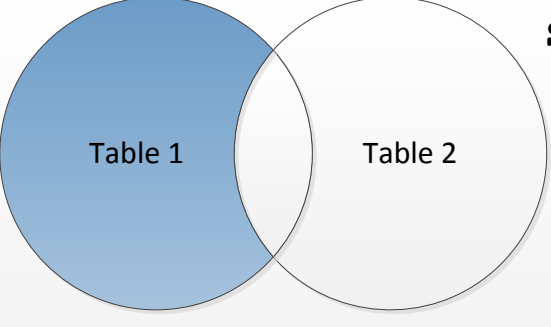
```
SELECT *
  FROM Table_1 t1
  RIGHT JOIN Table_2 t2
    ON t1.id = t2.fk;
```
RIGHT OUTER JOIN
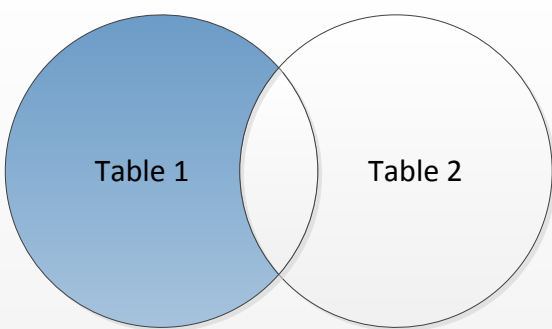
```
SELECT *
  FROM Table_1 t1
 WHERE EXISTS (SELECT 1
                 FROM Table_2 t2
                WHERE t2.id = t1.fk
              );
```
SEMI JOIN – Similar to INNER JOIN, with less duplication from Table 2.
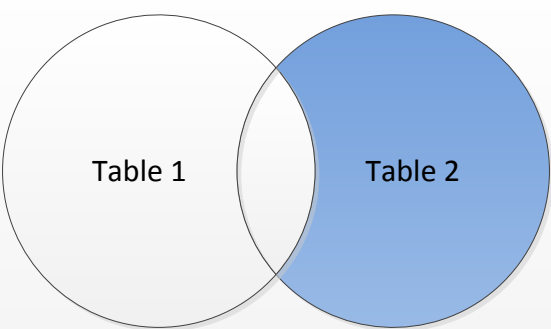
```
SELECT *
  FROM Table_1 t1
 WHERE NOT EXISTS (SELECT 1
                     FROM Table_2 t2
                    WHERE t2.id = t1.fk
                  );
```
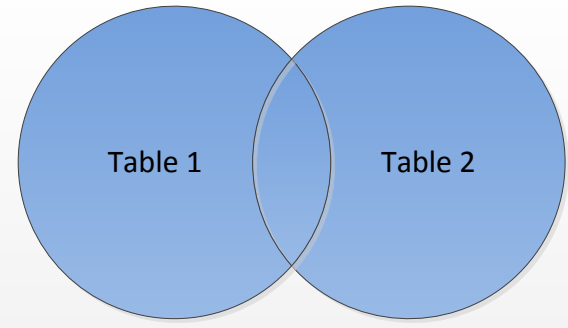ANTI SEMI JOIN

```
SELECT *
  FROM Table_1 t1
  LEFT JOIN Table_2 t2
    ON t1.id = t2.fk
 WHERE t2.fk is null;
```
LEFT OUTER JOIN with exclusion – replacement for a NOT IN
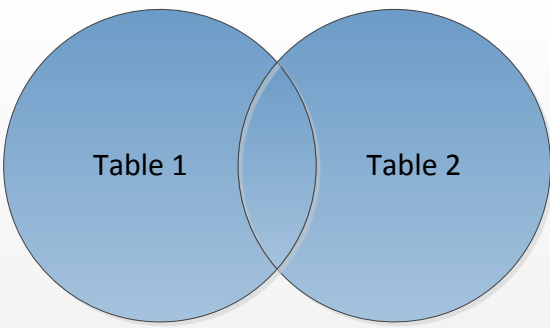
```
SELECT *
  FROM Table_1 t1
  RIGHT JOIN Table_2 t2
    ON t1.id = t2.fk
 WHERE t1.id is null;
```
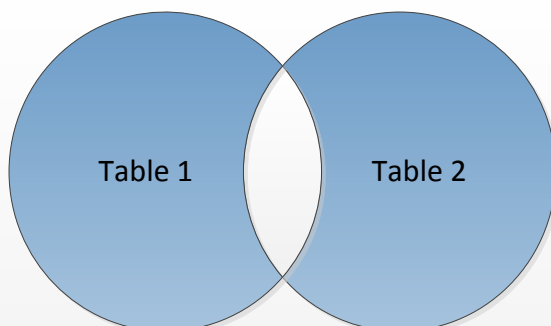RIGHT OUTER JOIN with exclusion – replacement for a NOT IN

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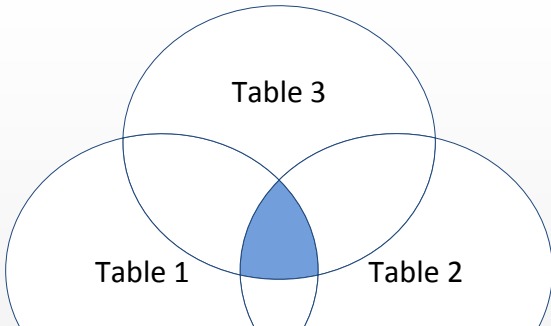FULL OUTER JOIN

```
SELECT *
  FROM Table_1 t1
  CROSS JOIN Table_2 t2;
```
CROSS JOIN, like a FULL OUTER JOIN with out specifying JOIN condition.
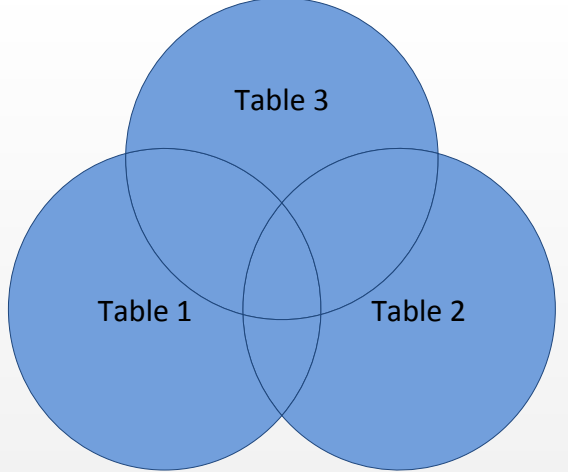
```
SELECT *
  FROM Table_1 t1
  FULL OUTER JOIN Table_2 t2
    ON t1.id = t2.fk
 WHERE t1.id is null
    OR t2.fk is null;
```
FULL OUTER JOIN with exclusion – replacement for a double NOT IN
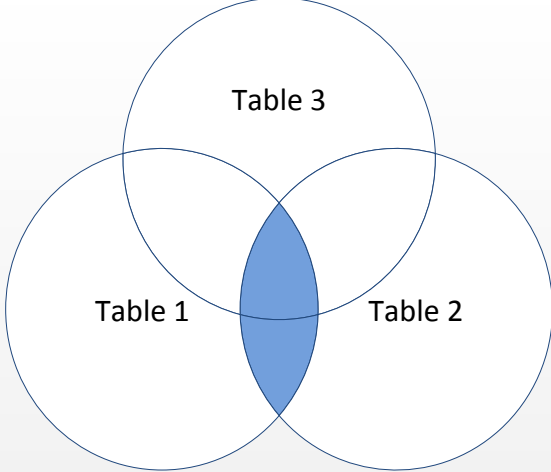
```
SELECT *
  FROM Table_1 t1
  INNER JOIN Table_2 t2
    ON t1.id = t2.fk
  INNER JOIN Table_3 t3
    ON t1.id = t3.fk;
```
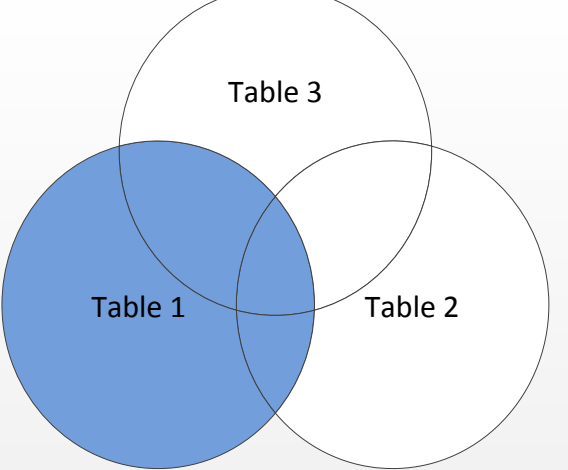Two INNER JOINs

```
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;
```
Two FULL OUTER JOINS

```
SELECT *
  FROM Table_1 t1
  INNER JOIN Table_2 t2
    ON t1.id = t2.fk
  LEFT OUTER JOIN Table_3 t3
    ON t1.id = t3.fk;
```
INNER JOIN and a LEFT OUTER JOIN

```
SELECT *
  FROM Table_1 t1
  LEFT JOIN Table_2 t2
    ON t1.id = t2.fk
  LEFT JOIN Table_3 t3
    ON t1.id = t3.fk;
```
Two LEFT OUTER JOINS

Table 1  Table 2  Table 3