



SQL Server - Jointures



Microsoft®
SQL Server® 2008

Microsoft
CERTIFIED
IT Professional

Database Administrator 2008
Database Developer 2008

Microsoft
CERTIFIED
Trainer

Database Administration
Database Development
Systems Engineering
Systems Administration

Scripts de test

```
CREATE TABLE Table1  
(ID INT, Value VARCHAR(15));
```

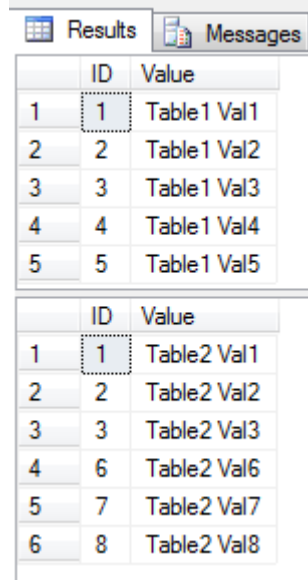
```
INSERT INTO Table1 (ID, Value)  
VALUES      ( 1,'Table1 Val1'),  
            ( 2,'Table1 Val2'),  
            ( 3,'Table1 Val3'),  
            ( 4,'Table1 Val4'),  
            ( 5,'Table1 Val5')
```

```
GO  
CREATE TABLE Table2  
(ID INT, Value VARCHAR(15));
```

```
INSERT INTO Table2 (ID, Value)  
VALUES      ( 1,'Table2 Val1'),  
            ( 2,'Table2 Val2'),  
            ( 3,'Table2 Val3'),  
            ( 6,'Table2 Val6'),  
            ( 7,'Table2 Val7'),  
            ( 8,'Table2 Val8')
```

```
GO
```

```
DROP TABLE table1  
DROP TABLE table2  
GO
```



The screenshot shows the SQL Server Results window with two tables displayed. The first table, Table1, has 5 rows with IDs 1 through 5 and values 'Table1 Val1' through 'Table1 Val5'. The second table, Table2, has 6 rows with IDs 1 through 6 and values 'Table2 Val1' through 'Table2 Val8'. The first row of each table is highlighted with a dashed border.

ID	Value
1	Table1 Val1
2	Table1 Val2
3	Table1 Val3
4	Table1 Val4
5	Table1 Val5

ID	Value
1	Table2 Val1
2	Table2 Val2
3	Table2 Val3
4	Table2 Val6
5	Table2 Val7
6	Table2 Val8

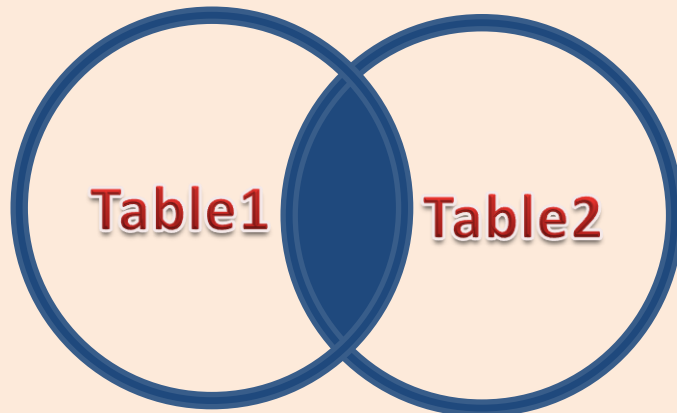
```
/* INNER JOIN */  
SELECT t1.*,t2.*  
FROM Table1 t1  
INNER JOIN Table2 t2  
ON t1.ID = t2.ID  
GO  
/* CROSS JOIN */  
SELECT t1.*,t2.*  
FROM Table1 t1  
CROSS JOIN Table2 t2
```

```
/* OUTER JOIN */  
SELECT t1.*,t2.*  
FROM Table1 t1  
FULL OUTER JOIN Table2 t2 ON t1.ID = t2.ID  
GO  
/* OUTER JOIN - WHERE NULL */  
SELECT t1.*,t2.*  
FROM Table1 t1  
FULL OUTER JOIN Table2 t2 ON t1.ID = t2.ID  
WHERE t1.ID IS NULL OR t2.ID IS NULL  
GO
```

```
/* LEFT JOIN */  
SELECT t1.*,t2.*  
FROM Table1 t1  
LEFT JOIN Table2 t2  
ON t1.ID = t2.ID  
GO  
/* LEFT JOIN - WHERE NULL */  
SELECT t1.*,t2.*  
FROM Table1 t1  
LEFT JOIN Table2 t2  
ON t1.ID = t2.ID  
WHERE t2.ID IS NULL  
GO
```

```
/* RIGHT JOIN */  
SELECT t1.*,t2.*  
FROM Table1 t1  
RIGHT JOIN Table2 t2  
ON t1.ID = t2.ID  
GO  
/* RIGHT JOIN - WHERE NULL */  
SELECT t1.*,t2.*  
FROM Table1 t1  
RIGHT JOIN Table2 t2  
ON t1.ID = t2.ID  
WHERE t1.ID IS NULL  
GO
```

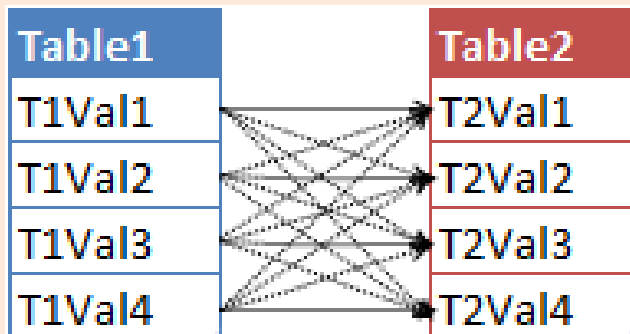
INNER JOIN



```
SELECT *  
FROM Table1 T1  
INNER JOIN Table2 T2  
    ON T1.ID = T2.ID
```

Retourne les enregistrements qui ont au moins une correspondance dans les 2 tables

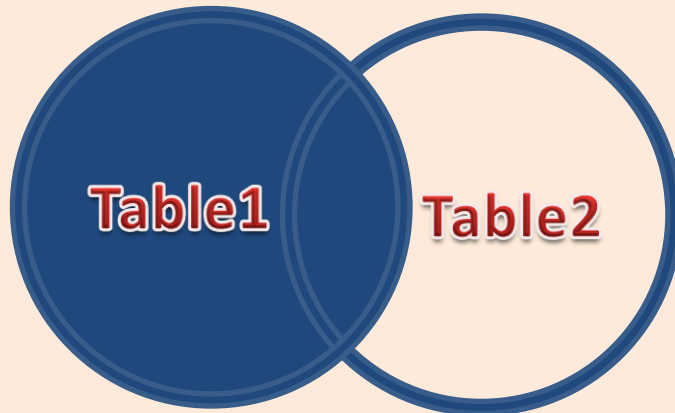
CROSS JOIN



```
SELECT *  
FROM Table1 T1  
CROSS JOIN Table2 T2
```

Retourne le produit cartésien des 2 tables

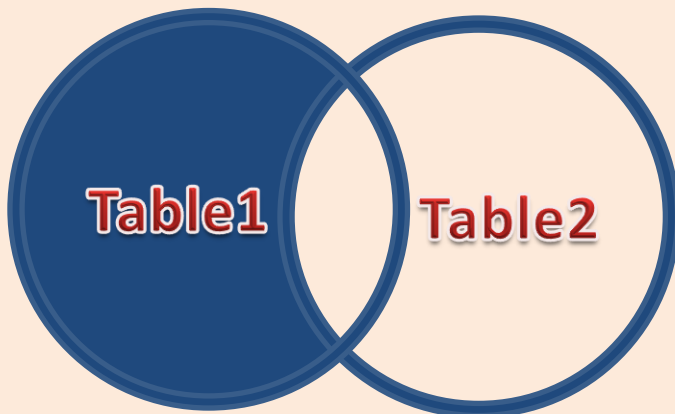
LEFT OUTER JOIN



```
SELECT *  
FROM Table1 T1  
LEFT OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID
```

Retourne tous les enregistrements de la table Table1 et seulement ceux qui ont une correspondance dans la table Table2

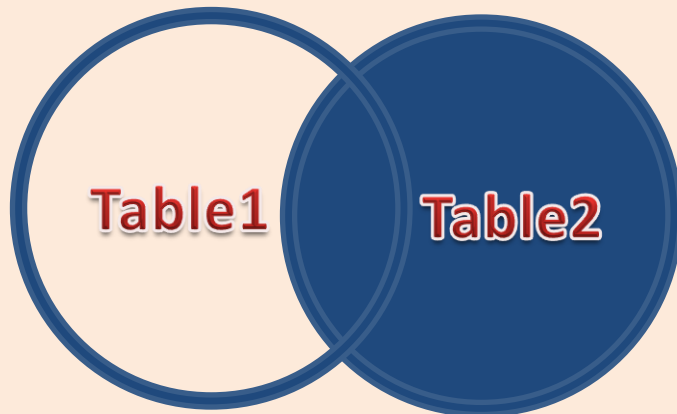
LEFT OUTER JOIN – IS NULL



```
SELECT *  
FROM Table1 T1  
LEFT OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID  
WHERE T2.ID IS NULL
```

Retourne tous les enregistrements de la table Table1 qui n'ont pas de correspondance dans la table Table2

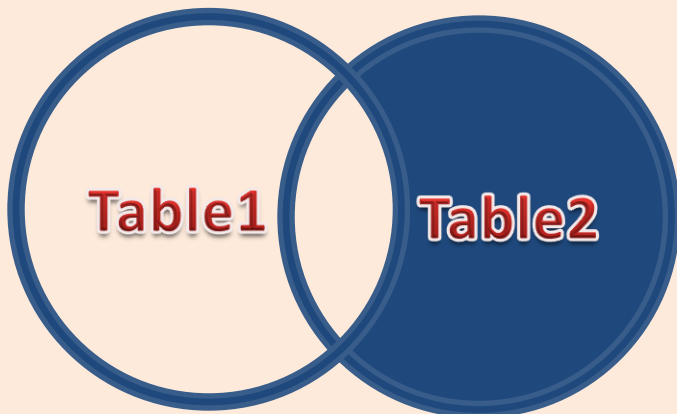
RIGHT OUTER JOIN



```
SELECT *  
FROM Table1 T1  
RIGHT OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID
```

Retourne tous les enregistrements de la table Table2 et seulement ceux qui ont une correspondance dans la table Table1

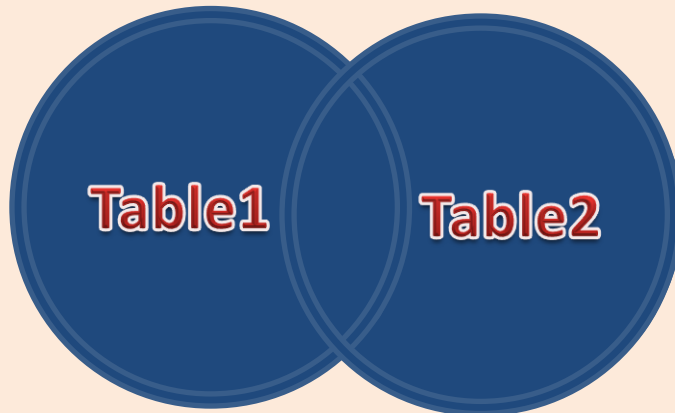
RIGHT OUTER JOIN – IS NULL



```
SELECT *  
FROM Table1 T1  
RIGHT OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID  
WHERE T1.ID IS NULL
```

Retourne tous les enregistrements de la table Table2 qui n'ont pas de correspondance dans la table Table1

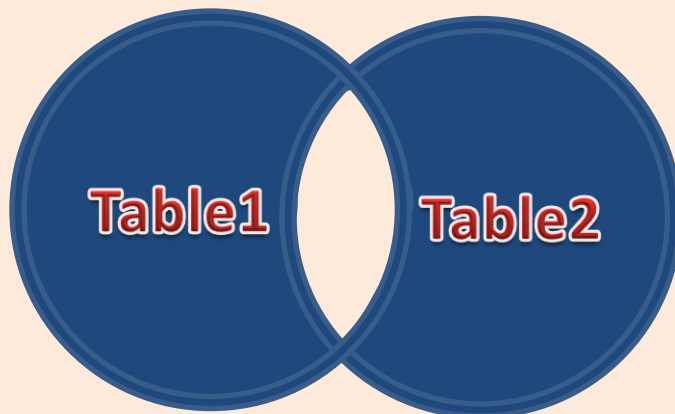
FULL OUTER JOIN



```
SELECT *  
FROM Table1 T1  
FULL OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID
```

Retourne tous les enregistrements de la table Table1 et tous les enregistrements de la table Table2 en complétant les données sans correspondance avec des NULLs

FULL OUTER JOIN – IS NULL



```
SELECT *  
FROM Table1 T1  
RIGHT OUTER JOIN Table2 T2  
    ON T1.ID = T2.ID  
WHERE T1.ID IS NULL  
OR     T2.ID IS NULL
```

Retourne tous les enregistrements de la table Table1 et tous les enregistrements de la table Table2 qui n'ont pas de correspondance (NOT INNER JOIN)

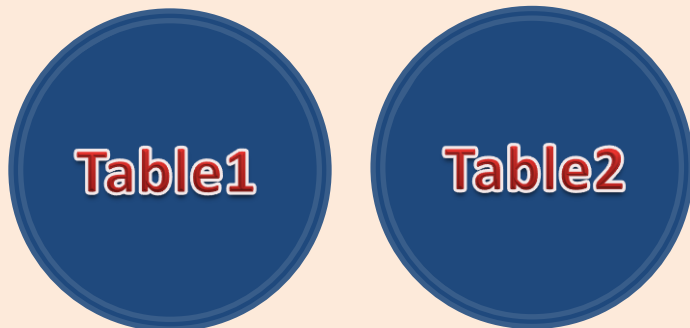
UNION



```
SELECT * FROM Table1  
UNION  
SELECT * FROM Table2
```

Combine le résultats de deux requêtes dans un seul jeu de résultat en supprimant les doublons

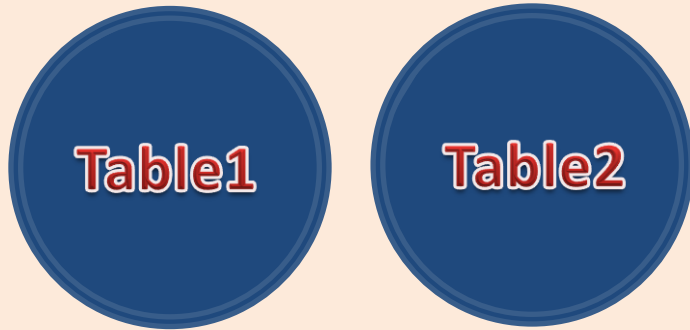
UNION ALL



```
SELECT * FROM Table1  
UNION ALL  
SELECT * FROM Table2
```

Combine le résultats de deux requêtes dans un seul jeu de résultat en conservant les doublons

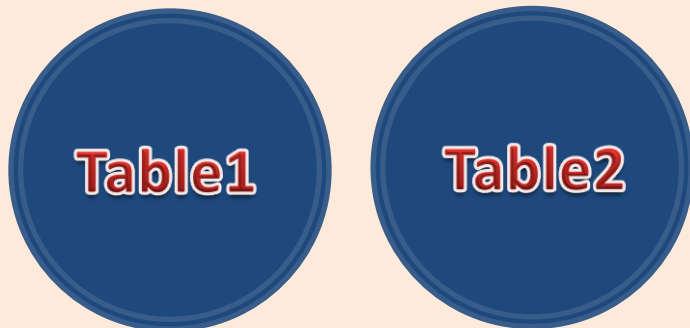
INTERSECT



```
SELECT Value FROM Table1  
INTERSECT  
SELECT Value FROM Table2
```

Retourne toutes les valeurs distinctes communes aux requêtes à droite et à gauche du mot clé INTERSECT

EXCEPT



```
SELECT * FROM Table1 T1  
EXCEPT  
SELECT * FROM Table2 T2
```

Retourne toutes les valeurs distinctes de la requête à gauche du mot clé EXCEPT qui ne sont pas contenues dans le jeu de résultat de la requête de droite