SQL JOINS CHEATSHEET

LEFT JOIN

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
1	AAA	NULL	NULL
2	BBB	NULL	NULL
3	CCC	1	CCC

SELECT * FROM T1
LEFT JOIN T2
ON T1.NAME= T2.NAME

INNER JOIN

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2
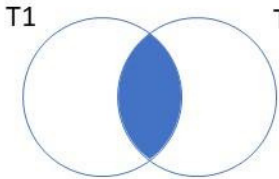
ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
3	CCC	1	CCC
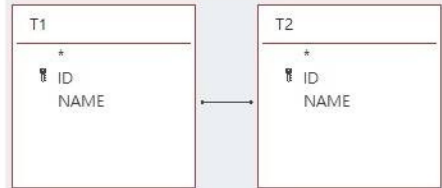
SELECT * FROM T1
INNER JOIN T2
ON T1.NAME = T2.NAME

RIGHT JOIN

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2
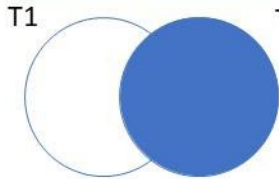
ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
3	CCC	1	CCC
NULL	NULL	2	DDD
NULL	NULL	3	EEE
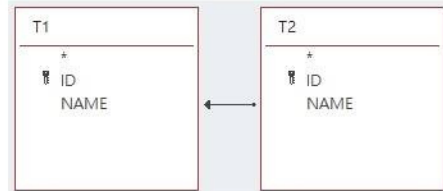
SELECT * FROM T1
RIGHT JOIN T2
ON T1.NAME = T2.NAME
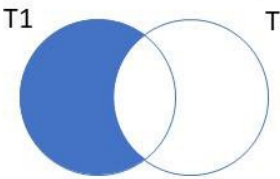
LEFT JOIN (EXCLUDE T2)

T1

ID	NAME
1	AAA
2	BBB
3	CCC
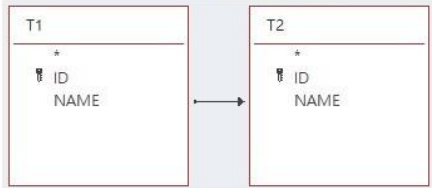
T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
1	AAA	NULL	NULL
2	BBB	NULL	NULL

SELECT * FROM T1
LEFT JOIN T2
ON T1.NAME= T2.NAME
WHERE T2.ID IS NULL
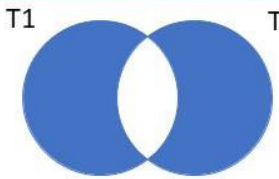
UNION ALL (EXCLUDE INNER)

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
1	AAA	NULL	NULL
2	BBB	NULL	NULL
NULL	NULL	2	DDD
NULL	NULL	3	EEE

SELECT * FROM T1
LEFT JOIN T2 ON T1.NAME = T2.NAME
WHERE T2.ID IS Null
UNION ALL
SELECT * FROM T1
RIGHT JOIN T2 ON T1.NAME=T2.NAME
WHERE T1.ID IS NULL
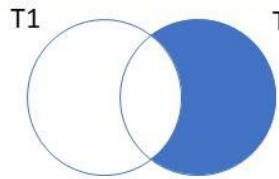
RIGHT JOIN (EXCLUDE T1)
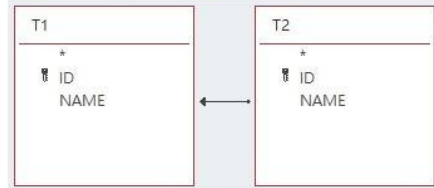
T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
NULL	NULL	2	DDD
NULL	NULL	3	EEE

SELECT * FROM T1
RIGHT JOIN T2
ON T1.NAME = T2.NAME
WHERE T1.ID IS NULL

FULL OUTER JOIN

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
1	AAA	NULL	NULL
2	BBB	NULL	NULL
3	CCC	1	CCC
NULL	NULL	2	DDD
NULL	NULL	3	EEE

SELECT * FROM T1
FULL OUTER JOIN T2
ON T1.NAME= T2.NAME
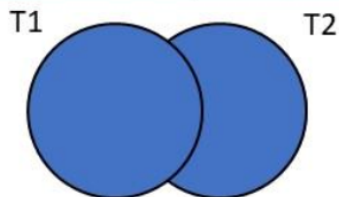
UNION ALL

T1

ID	NAME
1	AAA
2	BBB
3	CCC

T2

ID	NAME
1	CCC
2	DDD
3	EEE

T1.ID	T1.NAME	T2.ID	T2.NAME
1	AAA	NULL	NULL
2	BBB	NULL	NULL
3	CCC	1	CCC
NULL	NULL	2	DDD
NULL	NULL	3	EEE

SELECT * FROM T1
LEFT JOIN T2 ON T1.NAME = T2.NAME
UNION ALL
SELECT * FROM T1
RIGHT JOIN T2 ON T1.NAME=T2.NAME
WHERE T1.ID IS Null