```
SELECT *
FROM Table1;

Table2

SELECT *
FROM Table2;

SELECT *
FROM Table2;
```

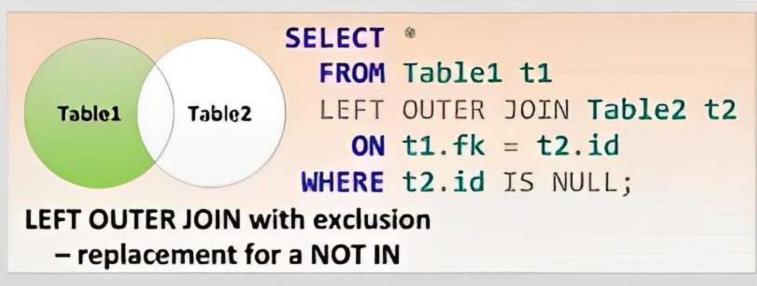
```
FROM Table1 t1
LEFT OUTER JOIN Table2 t2
ON t1.fk = t2.id;

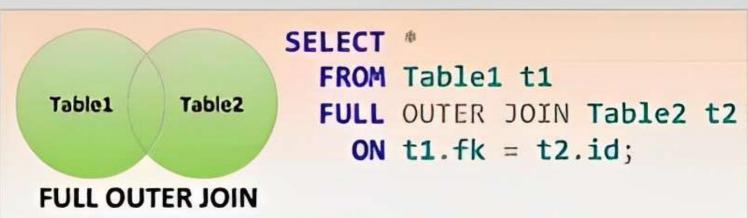
LEFT OUTER JOIN
```

```
Table1

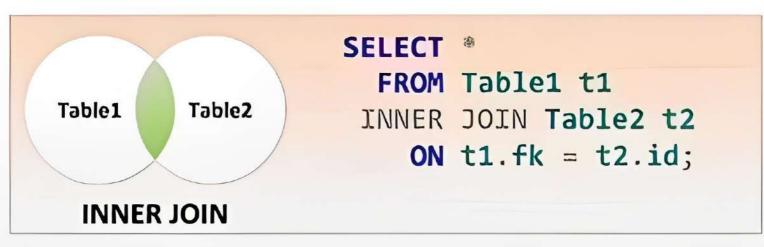
Table2

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





```
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
RIGHT OUTER JOIN Table2 t2
ON t1.fk = t2.id;
RIGHT OUTER JOIN
```

```
Table1

Table2

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

```
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
INNER JOIN Table2 t2
ON t1.fk >= t2.id;

NON-EQUIINNER JOIN
```

```
Table1

Correlated SELECT **

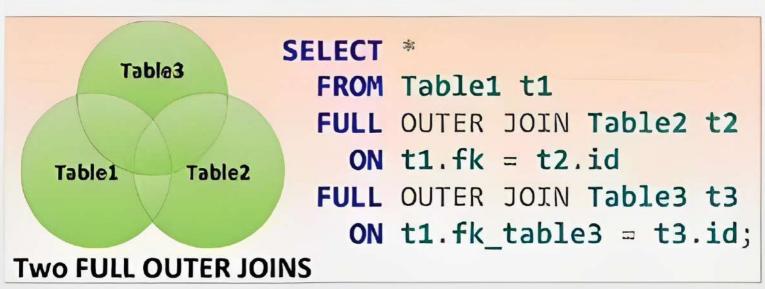
FROM Table1 t1

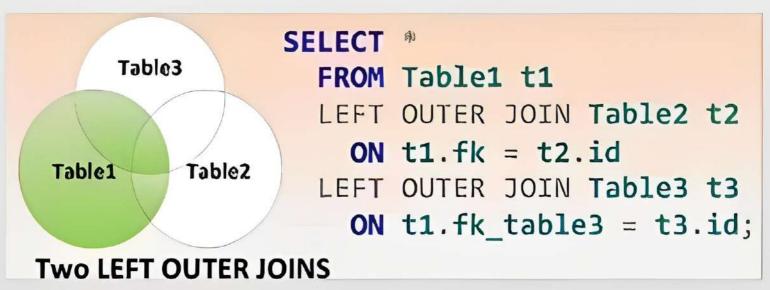
CROSS APPLY

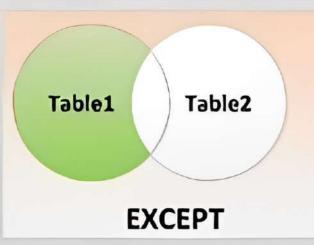
[dbo].[someTVF](t1.fk)

AS t;

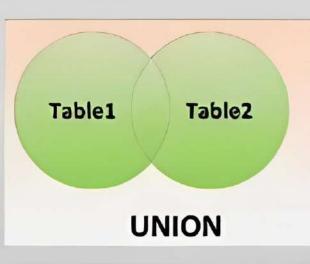
CROSS APPLY
```



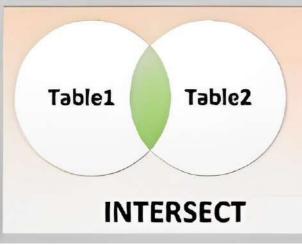




FROM Table1
EXCEPT
SELECT ID
FROM Table2;



FROM Table1
UNION
SELECT ID
FROM Table2;



FROM Table1
INTERSECT
SELECT ID
FROM Table2;

```
Table1

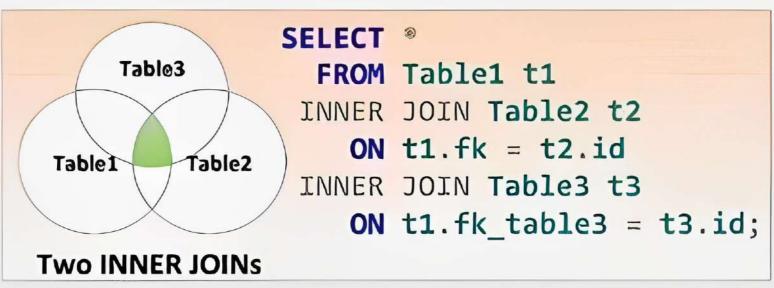
Correlated Sub-query or Table Valued Function

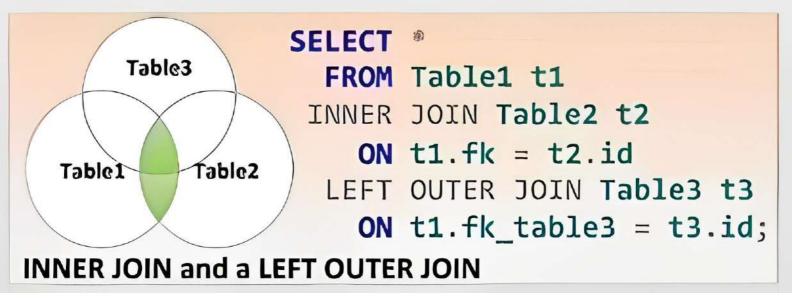
FROM Table1 t1

OUTER APPLY

[dbo].[someTVF](t1.fk)

AS t;
```





Sample Schema

Table 1 (People)

	ld	Namo	ſk	fk_loblo3
1	1	Steve	1	NULL
2	2	Aaron	3	NULL
3	3	Mory	2	NULL
4	4	Frod	1	NULL
5	5	Anne	5	NULL
6	6	Beth	8	1
7	7	Johnny	NULL	1
8	8	Koron	NULL	2

Table 3 (Favorite Foods)

id	dataVoluo	
1	Pizzo	
2	Burgor	
3	Suchi	
	1	

Table 2 (Favorite Colors)

	id	FavoritoColor
1	1	rod
2	2	green
3	3	blue
4	4	pink
5	5	purplo
6	6	mouvo
7	7	orango
8	8	yellow
9	1	indigo

Note: Column names are very generic to simplify the sample queries.

Foreign keys are Table1. fk -> Table2.id

Table2.fk_table3 -> Table3.id