

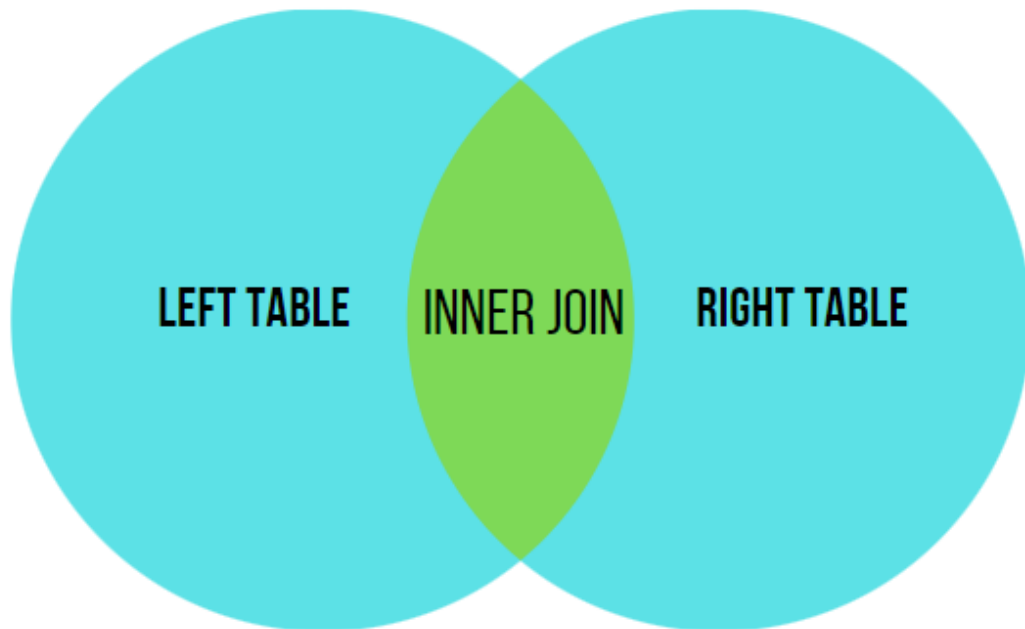
MySQL supports these JOINS

- INNER JOIN
- LEFT JOIN
- RIGHT JOIN
- CROSS JOIN
- and more... <https://dev.mysql.com/doc/refman/8.0/en/join.html>

SPECIAL CASES

- Relational databases have several special joins. Most special joins are used for unusual reporting needs.
- MySQL join syntax differs somewhat from the SQL standard. Refer to the documentation for more details.

INNER JOIN



- An INNER JOIN returns only matching rows from the left and right table.

- General Syntax

```
SELECT column(s)
```

```
FROM left_table
```

```
INNER JOIN right_table
```

```
ON left_table.column = right_table.column;
```

LEFT JOIN

- A LEFT JOIN returns all rows from the left table but only matching rows from the right table.

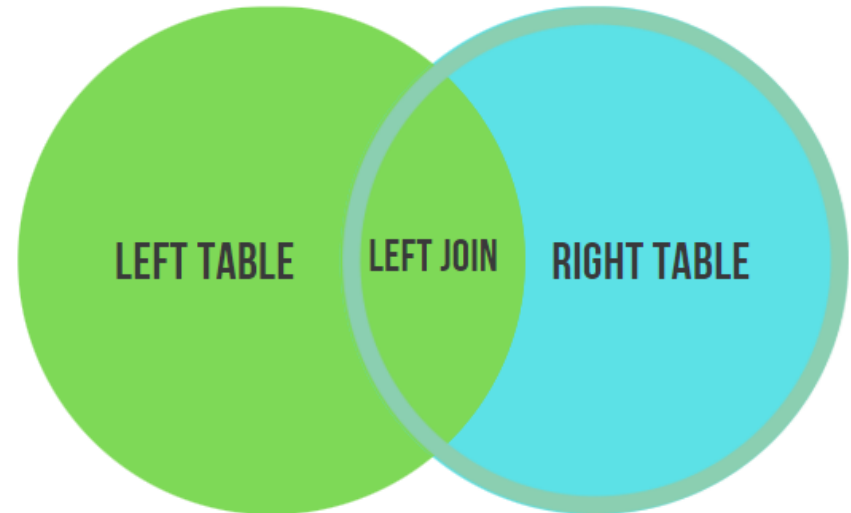
- General Syntax:

SELECT column(s)

FROM left_table

LEFT JOIN right_table

ON left_table.column = right_table.column;



RIGHT JOIN

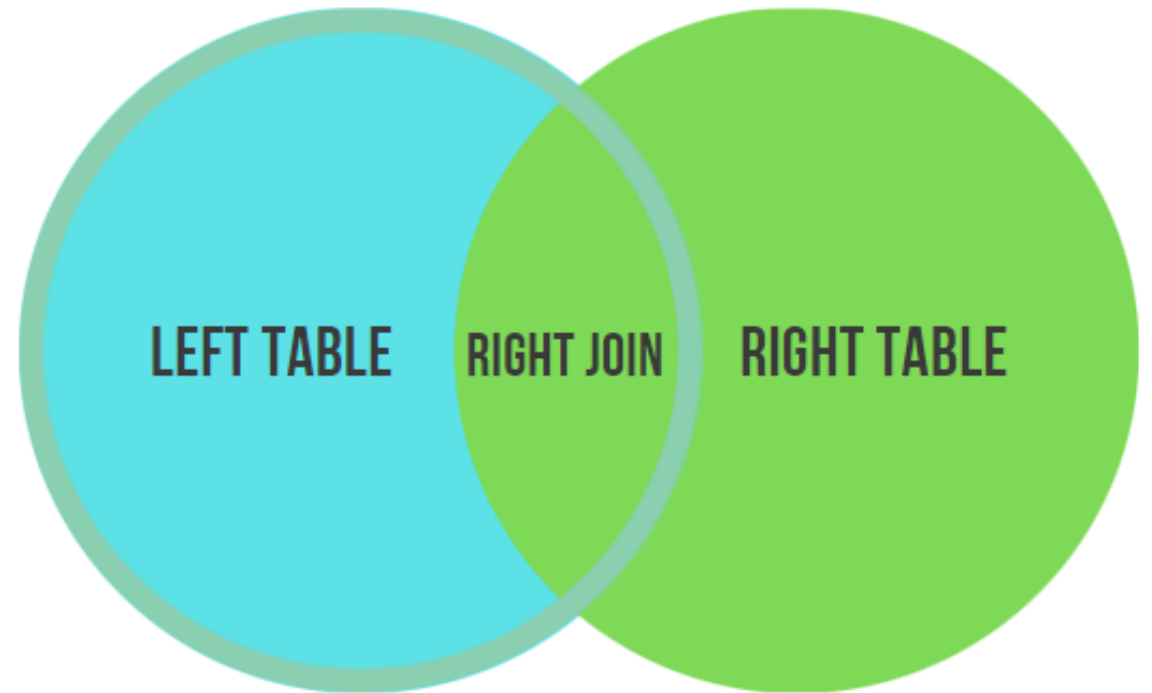
- A right join returns all rows from the right table but only the matching rows from the left table.
- General Syntax:

```
SELECT column(s)
```

```
FROM left_table
```

```
RIGHT JOIN right_table
```

```
ON left_table.column = right_table.column;
```



Example

```
SELECT title, count(actor_id)

FROM film AS f

INNER JOIN film_actor AS fa

ON f.film_id = fa.film_id

GROUP BY f.title

LIMIT 5;
```

Returns from sakila database

```
# title, count(actor_id)
```

```
'ACADEMY DINOSAUR', '10'
```

```
'ACE GOLDFINGER', '4'
```

```
'ADAPTATION HOLES', '5'
```

```
'AFFAIR PREJUDICE', '5'
```

```
'AFRICAN EGG', '5'
```