SQL JOINS

- **INNER JOIN** - returns records that have matching values in both tables
- **LEFT JOIN** - returns all records from the left table (table1), and the matched records from the right table (table2)
- **RIGHT JOIN** - returns all records from the right table (table2), and the matched records from the left table (table1)

students

id	fname	age	class_id	created_at
1	Olivia	24	1	XXXX-XX-XX
2	Omar	26	1	XXXX-XX-XX
3	Karin	29	1	XXXX-XX-XX
4	Egil	35	1	XXXX-XX-XX
5	Harald	44	3	XXXX-XX-XX
6	Fredrik	33	3	XXXX-XX-XX
7	Sofie	18		XXXX-XX-XX

classes

id	class
1	FED24
2	FED25
3	FSU24

INNER JOIN

Syntax
SELECT *column_name*,*column_name*
      FROM *table_name1*;
INNER JOIN table_name2
      ON *table_name1.column_name* = *table_name2.column_name*

SELECT *column_name*,*column_name*
      FROM *table_name1 AS t1*;
INNER JOIN table_name2 AS *t2*
      ON *t1.column_name* = *t2.column_name*

Example
Hämtar alla studenter som går i en klass (UTAN alias tabellnamn)
SELECT *
      FROM classes
INNER JOIN students
      ON classes.id = students.class_id

Hämtar alla studenter som går i klass FED24 (MED alias tabellnamn)
SELECT *
      FROM classes AS c
INNER JOIN students AS s
      ON c.id = s.class_id
WHERE c.class = "FED24"

LEFT JOIN

Syntax
SELECT *column_name,column_name*
  FROM *table_name1*;
LEFT JOIN table_name2
  ON *table_name1.column_name = table_name2.column_name*

SELECT *column_name,column_name*
  FROM *table_name1 AS t1*;
LEFT JOIN table_name2 AS *t2*
  ON *t1.column_name = t2.column_name*

Example
Hämtar alla klasser och alla studenter som går i en klass
SELECT *
  FROM classes AS c
LEFT JOIN students AS s
  ON c.id = s.class_id

RIGHT JOIN

Syntax
SELECT *column_name,column_name*
  FROM *table_name1*;
RIGHT JOIN table_name2
  ON *table_name1.column_name = table_name2.column_name*

SELECT *column_name,column_name*
  FROM *table_name1 AS t1*;
RIGHT JOIN table_name2 AS *t2*
  ON *t1.column_name = t2.column_name*

Example

Hämtar alla studenter och alla klasser som är länkade till studenter
SELECT *
  FROM classes AS c
RIGHT JOIN students AS s
  ON c.id = s.class_id

Eller läs/laborera direkt i W3Schools sida:

[SQL Joins](#)
[SQL Inner Join](#)
[SQL Left Join](#)
[SQL Right Join](#)