SQL DELETE JOIN

- Deletes rows from **one table** based on **matching conditions in another table**.

- Useful for managing **linked data across multiple tables** while maintaining database consistency.

- Even if multiple tables are joined, **deletion happens in only one table**.

- Supports **INNER JOIN, LEFT JOIN, USING**.

- Can use **WHERE** to delete specific rows.

General Syntax

```
DELETE table1
FROM table1
JOIN table2 ON table1.col = table2.col
WHERE condition;
```

- **table1** → the table from which rows will be deleted

- **table2** → the table used for comparison/condition

- **ON** → specifies the join condition

- **WHERE** → optional filter for rows to delete

Examples:

emp_id	name	dept_id
1	John	10
2	Emma	20
3	Liam	30

dept_id	dept_name
10	HR
20	Finance

Delete employees from HR department

```
DELETE employees
FROM employees
JOIN departments ON employees.dept_id = departments.dept_id
WHERE departments.dept_name = 'HR';
```

emp_id	name	dept_id
2	Emma	20
3	Liam	30

- Joins **employees** with **departments** using dept_id.

- Deletes employees whose department name is **HR**.

Reference: https://www.geeksforgeeks.org/sql/sql-delete-join/