

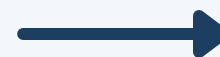


Master 4 Essential SQL **Joins** in Just 5 Minutes!



Shailesh Kumar

@sshailsh-dev



What Are SQL Joins?

- Joins allow you to combine data from multiple tables.
- They are essential for analyzing data relationships in relational databases.



Shailesh Kumar

@sshailsh-dev



INNER JOIN: Combine Only Matching Rows

What it does: Returns rows that have matching values in both tables.



SQL

```
SELECT orders.order_id,  
customers.customer_name  
FROM orders  
INNER JOIN customers ON orders.customer_id =  
customers.customer_id;
```

Use case: Retrieve orders that have valid customer information.



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@sshailsh-dev



LEFT JOIN: Keep All Rows from the Left Table

What it does: Returns all rows from the left table, even if there's no match in the right table.



SQL

```
SELECT employees.employee_name,  
       departments.department_name  
FROM employees  
LEFT JOIN departments ON employees.department_id =  
       departments.department_id;
```

Use Case: Find all employees, even those not assigned to a department.



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@sshailsh-dev



RIGHT JOIN: Keep All Rows from the Right Table

What it does: Returns all rows from the right table, even if there's no match in the left table.

```
SQL

SELECT sales.sales_id, products.product_name
FROM sales
RIGHT JOIN products ON sales.product_id =
products.product_id;
```

Use Case: Retrieve all products, including those that haven't been sold



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@sshailsh-dev



FULL OUTER JOIN: Return All Rows from Both Tables

What it does: Returns all rows from both tables, matching where possible.

```
SQL

SELECT employees.employee_name,
departments.department_name
FROM employees
FULL OUTER JOIN departments ON
employees.department_id = departments.department_id;
```

Use Case: Retrieve a complete list of employees and departments, whether or not they match.



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When to Use Each Join Type

INNER JOIN: When you need only matching data.

LEFT JOIN: When you want all data from the left table, regardless of a match.

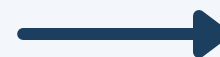
RIGHT JOIN: When you want all data from the right table, regardless of a match.

FULL OUTER JOIN: When you need all data from both tables, matched or unmatched.



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@sshailsh-dev



Joins, One Powerful Toolset!

Summary: Understanding these 4 SQL joins will help you combine data effectively and unlock valuable insights from multiple sources.

**Which join do you use the most?
Let's discuss in the comments!**



Shailesh Kumar

@sshailsh-dev

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Shailesh Kumar

@sshailsh-dev