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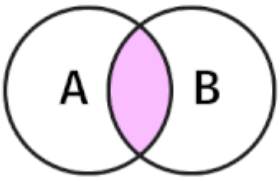
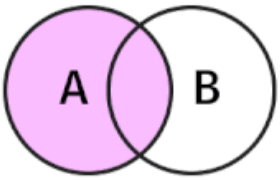
SQL JOINS




```
SELECT *
FROM A
INNER JOIN B ON A.key = B.key
```

INNER JOIN

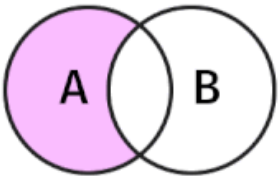
Retrieves records with matching values in both tables.




```
SELECT *
FROM A
LEFT JOIN B ON A.key = B.key
```

LEFT JOIN

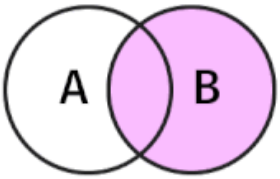
Retrieves all records from the left table and matching records from the right table.




```
SELECT *
FROM A
LEFT JOIN B ON A.key = B.key
WHERE B.key IS NULL
```

LEFT JOIN with NULL Check

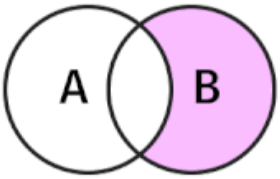
Filters only the records where there is no match in the right table (NULL values).




```
SELECT *
FROM A
RIGHT JOIN B ON A.key = B.key
```

RIGHT JOIN

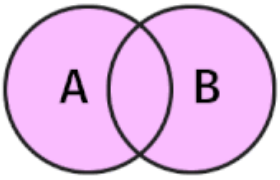
Retrieves all records from the right table and matching records from the left table.




```
SELECT *
FROM A
RIGHT JOIN B ON A.key = B.key
WHERE A.key IS NULL
```

RIGHT JOIN with NULL Check

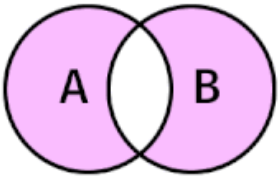
Filters only the records where there is no match in the left table (NULL values).




```
SELECT *
FROM A
FULL OUTER JOIN B ON A.key =
B.key
```

FULL JOIN

Retrieves all records when there is a match in either the left or right table.




```
SELECT *
FROM A FULL OUTER JOIN B ON
A.key = B.key WHERE A.key IS
NULL OR B.key is NULL
```

FULL JOIN with NULL Check

Filters only the records where there is no match in either the left or right table (NULL values in either)

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Here’s a breakdown of 7 essential joins:

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• □□□□□ □□□□: Get records with matching values in both tables. This retrieves only rows with data in common.

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• □□□□ □□□□: Show all records from the left table, along with any matching records from the right table.
• □□□□□ □□□□: Opposite of a left join, this prioritizes the right table, showing all its records and any matching ones from the left.

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• □□□□/□□□□□ □□□□ □□□□ □□□□ □□□□□: Need to see records with NO match in the other table? These joins filter out matched records, revealing unmatched entries. Perfect for analyzing inactive users or out-of-stock items.

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• □□□□ □□□□: Get ALL records from both tables, even if there’s no match. This provides a complete view, highlighting missing data points.