## **Interview Questions on Joins**

- 1. What is a JOIN in SQL, and why is it used?
- 2. Explain the difference between INNER JOIN and OUTER JOIN.
- 3. What is the default join in SQL if not specified?
- 4. How does a LEFT JOIN handle unmatched rows?
- 5. What happens to unmatched rows in a FULL JOIN?
- 6. How is a CROSS JOIN different from other joins?
- 7. Explain a SELF JOIN with a real-world use case.
- 8. How does NATURAL JOIN determine matching columns?
- 9. Can you join more than two tables in SQL? How?
- 10. Write a query to find employees without a department.
- 11. Write a query to list all departments even if no employee is assigned.
- 12. Explain the difference between LEFT JOIN and RIGHT JOIN.
- 13. What are the performance considerations of JOINs in large datasets?
- 14. How can indexes improve the performance of JOIN queries?
- 15. How do you simulate a FULL OUTER JOIN in MySQL?
- 16. What is an equi-join?
- 17. What is a non-equi-join? Provide an example.
- 18. How does SQL handle NULL values in JOIN conditions?
- 19. Write a query using a LEFT JOIN and WHERE clause together.
- 20. Can you perform a JOIN on more than one condition?
- 21. Explain the difference between USING and ON in JOIN.
- 22. What is the difference between INNER JOIN and NATURAL JOIN?
- 23. Write a query to find employees working on more than one project.
- 24. Write a query to get employee names and their respective project names.
- 25. What are Cartesian products? How can you avoid them?
- 26. What is the difference between a JOIN and a UNION?
- 27. Write a query to get employees without projects assigned.
- 28. Can you use an alias with JOIN? How?
- 29. How do aggregate functions work with JOINs?
- 30. Explain the term "key preservation" in the context of JOINs.