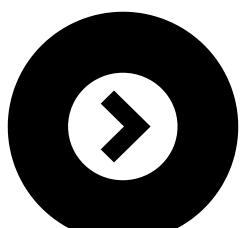




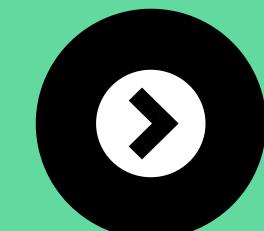
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# 70 Most Asked SQL Server Interview Questions

- 1. Explain Normalization ?**
- 2. How to implement Normalization?**
- 3. What is Denormalization ?**
- 4. Explain OLTP vs OLAP ?**
- 5. Explain 1st,2nd & 3rd Normal form?**
- 6. Primary Key vs Unique key ?**
- 7. Difference b/w Char vs Varchar ?**



- 8. Differentiate b/w Char vs NChar ?**
- 9. Whats the size of Char vs NChar ?**
- 10. What is the use of Index ?**
- 11. How does it make search faster?**
- 12. What are the two types of Indexes ?**
- 13. Clustered vs Non-Clustered index?**
- 14. Function vs Stored Procedures ?**



**15.** **What are triggers and why do you need it ?**

**16.** **What are types of Triggers ?**

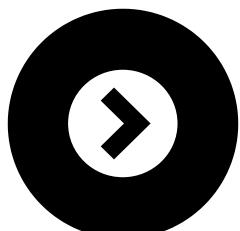
**17.** **Differentiate between After trigger vs Instead Of ?**

**18.** **What is need of Identity ?**

**19.** **Explain transactions and how to implement it ?**

**20.** **What are Inner Joins ?**

**21.** **Explain Left join ?**



22.

**Explain Right join ?**

23.

**Explain Full outer joins ?**

24.

**Explain Cross joins ?**

25.

**Why do we need UNION ?**

26.

**Differentiate between Union vs Union All ?**

27.

**Can we have unequal columns in Union?**

28.

**Can column have different data types in Union ?**



**29. Which Aggregate function have you used ?**

**30. When to use Group by ?**

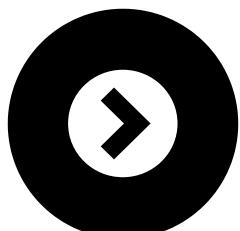
**31. Can we select column which is not part of group by ?**

**32. What is having clause ?**

**33. Having clause vs Where clause ?**

**34. How can we sort records ?**

**35. What's the default sort ?**



- 36. How can we remove duplicates ?**
- 37. Select the first top X records ?**
- 38. How to handle NULLS ?**
- 39. What is use of wild cards ?**
- 40. What is the use of Alias ?**
- 41. How to write a case statement ?**
- 42. What is Self Reference Tables ?**



**43. What is Self Join ?**

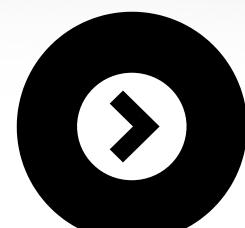
**44. Explain the between clause ?**

**45. Explain SubQuery ?**

**46. Can Inner Subquery return multiple results ?**

**47. What is Co-related Query ?**

**48. Differentiate between Joins and SubQuery ?**



**49. Performance Joins vs Subquery?**

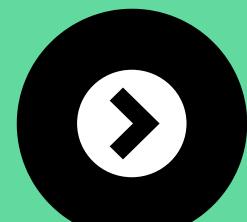
**50. Select the top nth highest salary using top and order by?**

**51. Select the top nth highest salary using correlated Queries?**

**52. Select top nth using using TSQL**

**53. Performance comparison of all the methods.**

**54. What is CTE ?**



**55. Can we execute CTE multiple times?**

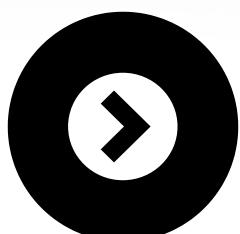
**56. What is the use of CTE ?**

**57. How to write a recursive CTE ?**

**58. Can we see some real world examples of CTE ?**

**59. Can we perform insert updates on CTEs ?**

**60. Does it update the tables physically ?**



**61. What are Temporary Tables ?**

**62. Temp Tables vs CTE ?**

**63. Performance CTE vs Temp ?**

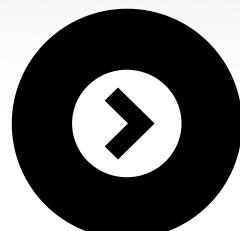
**64. What are Window Functions in SQL?**

**65. What does Partition Clause in Window Function ?**

**66. So is Window Function Partition similar to group by ?**



- 67.** **What is difference between Rank vs Dense\_Rank ?**
- 68.** **Find Duplicate Records from a table.**
- 69.** **Find Records which are unique.**
- 70.** **Delete Duplicate records (With Id)**
- 71.** **Delete Duplicate records ( With out Id)**
- 72.** **Delete Duplicate records (using CTE)**



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