# 50+ SQL Interview Questions

*These questions cover Database, Relational Database, and SQL operations. These are for Beginner and Medium Levels. The curated questions are both conceptual and practice-oriented. You can take advantage of these questions during interview preparations and practicing SQL as well. Most of these questions may have different answers for different databases. Some questions may not apply to all the databases.*

# What topics will we cover?

➊ Data Types

➋ Operators

➌ Built-In Functions

➍ Aggregations

➎ Views

# Data Types



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➀ When do you define the data type of a column?

➁ Can a data type be changed later? What are the restrictions?

➂ What are the different numeric data types?

➃ What data type is used to store a boolean?

➄ What data type is used to store bits?

➅ What data type is used for integers?

➆ What data type is used for floating point numbers?

➇ What are the different string data types?

➈ What data type is used to store binary data?

➉ What is the difference between CHAR, VARCHAR, and VARCHAR2 (Oracle)?

➀➀ What is a Large Object Data Type?

➀➁ What are different large object data types?

➀➂ What is the difference between BLOB and CLOB?

➀➃ When should you go for a large object data type instead of a string data type?

➀➄ What are different date and time data types?

# Operators



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➀ What operator is to verify if all subqueries meet the condition?

➁ What operator is to verify if any of the subqueries meet the condition?

➂ What operator is to check if an operand is within a range?

➃ What operator is to check if the operand should be one of the given values?

➄ What operator is to check if a subquery returns at least one record?

➅ What operator is to check if the operand matches a pattern?

➆ What is the difference between BETWEEN and IN operators?

➇ What is the difference between the = and LIKE?

➈ How to check if a field contains a NULL value?

➉ What are the different comparison operators?

➀➀ What is the operator to check for inequality?

# Built-In Functions



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➀ What is a SQL function?

➁ What function will return the current system date and time?

➂ What function will find the length of a text field?

➃ What function will convert a text field to upper/lower case?

➄ How to get a substring?

➅ What are the different format options for displaying a text field?

➆ How to round a numeric field to a certain precision?

➇ Give examples of some date and time functions.

➈ How to get the year/month/date from a date field?

➉ How to get the last day of the month?

# Aggregations



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➀ What do you mean by aggregation?

➁ What is the difference between aggregation and projection?

➂ What does the "GROUP BY" statement do?

➃ What is the difference between WHERE and HAVING?

➄ Is "ORDER BY" an aggregation statement?

# Views



➎

➀ What is a View?

➁ How is a View different from a Table?

➂ What are the use cases of a View?

➃ Can a View be used to insert/delete records?

➄ How to create/update a View?

➅ What is "WITH CHECK OPTIONS"?

➆ What is a Materialised View? Difference from a View

# Disclaimer

⬘ The questions covered here are both conceptual and practical. You should practice and solve problems to become a skilled programmer.

⬙ I don't claim that only these types of questions are asked during interviews.