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75+ SQL Interview Questions

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Level: Beginner to Medium
Topics:

❶ Introduction to RDBMS
❷ Normalisation
❸ Introduction to SQL
❹ Tables and Fields
❺ Constraints
❻ DDL
❼ DML & DQL
❽ Joins

❶ Introduction to RDBMS

① What is a Database?
② What are different types of Databases?
③ What is DBMS?
④ What is difference between Database and DBMS?
⑤ What is RDBMS?
⑥ Which are popular RDBMS vendors?
⑦ What is ACID property in Database?

❷ Normalisation

① What is Normalisation?
② Why is Normalisation necessary?
③ What are the disadvantages of not performing Normalisation?
④ What are different Normal Forms (NF)?
⑤ What is Denormalisation?

❸ Introduction to SQL

① What is SQL?
② What is the use of SQL?
③ Is SQL a programming language?
④ What are the different parts of SQL?
Or,
⑤ Group SQL commands in different parts.
⑥ What is DDL?
⑦ What is DML?
⑧ What is DQL?
⑨ What is DCL?
⑩ What is TCL?

❹ Tables and Fields

① What is a Table?
② What is a field in a Table?
③ Write a SQL command to create a Table.
④ How to change the name of a Table?
⑤ How to truncate a table?
⑥ How to drop a table?

❺ Constraints

① What is a constraint?
② What are different levels of constraints?
③ Give examples of various constraints?
④ What is a primary key?
⑤ What is a unique key?

⑥ Difference between a primary key and a unique key.
⑦ What is a foreign key?
⑧ What is NULL value?
⑨ What is NOT NULL constraint?
⑩ Is blank space or Zero (0) same as NULL?

❻ DDL

① Give some examples of DDL commands
② Write the syntax of creating a table
③ How to specify the default value for a column?
④ How to specify a foreign key?
⑤ How to specify a unique key?
⑥ How to specify multiple columns as the primary key?

⑦ What are different constraints you can add to a column while creating a table?
⑧ How to create a copy of a table? (both structure and, data)
⑨ You have 'n' tables and asked to create a separate table which will contain a few columns from these tables with data being copied.

⑩ What is SELECT INTO used for? (In SQL Server)
①① Difference between ALTER and RENAME
①② Can a previously nullable column be altered to a NOT NULL column? If yes, explain the steps.

❼ DML & DQL

① How to insert rows into a table?
② What are different syntaxes for inserting records into a table?
③ What is the syntax to insert multiple records at a time?
④ How to update data in a table?
⑤ How to delete a row in a table?

⑥ Difference between DELETE and TRUNCATE?
⑦ Explain how DML operations are performed on a View.
Or,
⑧ Are Views used only for SELECT queries?
⑨ How to fetch rows of a table?
⑩ What is a query condition? How to write it in SQL?
①① How to sort the fetched records?

①② What is grouping? How to write in SQL?
①③ How to find how many records are being fetched?
①④ How to find the maximum and minimum value for a field in fetched records?
①⑤ How to sum values in a field for all records?

❽ Joins

① What is a join in SQL?
② What are the different types of joins?
③ What is Inner Join?
④ What is Left Outer Join?
⑤ What is Right Outer Join?
⑥ What is Full Outer Join?
⑦ What is Cross Join?

⑧ What is a Self Join?
⑨ What is Equi Join?
⑩ What is Natural Join?

①① Given a query in Cross Join, convert it into an Inner Join.

①② Given a query in Right Outer Join, convert it into a Left Outer Join.

①③ Convert an Inner Join into an Equi Join.
Or,
①④ What is required to convert an Inner Join into an Equi Join?

①⑤ What should be taken care of to improve the performance of queries containing Joins.

■ Disclaimer

■ The questions covered here are mostly conceptual

■ I never claim only these types of questions are/should be asked during interviews

■ For interviews, you should have fundamentals strong. And you should be able to provide solutions to practical problems.

Hey ■

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I am sharing Tutorials, Tips, Techniques, Infographics, Cheat Sheets, Practice Questions, Project Ideas and Roadmaps on Web Development, DSA and, Databases.

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