

Twitter Thread by Swapna Kumar Panda



Swapna Kumar Panda

[@swapnakpanda](#)



75+ SQL Interview Questions



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

- ❶ What is a Database?
- ❷ What are different types of Databases?
- ❸ What is DBMS?
- ❹ What is difference between Database and DBMS?
- ❺ What is RDBMS?
- ❻ Which are popular RDBMS vendors?
- ❼ What is ACID property in Database?

❷ Normalisation

- ❶ What is Normalisation?
- ❷ Why is Normalisation necessary?
- ❸ What are the disadvantages of not performing Normalisation?
- ❹ What are different Normal Forms (NF)?
- ❺ What is Denormalisation?

③ 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?

④ 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?

⑤ 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?

⑥ 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.

⑦ 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?

⑧ 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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