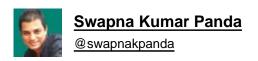
# Twitter Thread by Swapna Kumar Panda





## 75+ SQL Interview Questions

Level: Beginner to Medium

Topics:

- Introduction to RDBMS
- Normalisation
- Introduction to SQL
- Tables and Fields
- 6 Constraints
- **6** DDL
- ODML & DQL
- O Joins
- 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?**
- Which are popular RDBMS vendors?
- ⑦ What is ACID property in Database?
- 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?

## Introduction to SQL

- ① What is SQL?
- 2 What is the use of SQL?
- 3 Is SQL a programming language?
- What are the different parts of SQL?

## Or,

- ⑤ Group SQL commands in different parts.
- What is DDL?
- ⑦ What is DML?
- ® What is DQL?
- 9 What is DCL?
- **10** What is TCL?

## 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?
- How to drop a table?

#### 6 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?
- © Difference between a primary key and a unique key.
- ⑦ What is a foreign key?
- ® What is NULL value?
- 9 What is NOT NULL constraint?
- ® 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?

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

## ODML & 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?
- © Difference between DELETE and TRUNCATE?
- ② Explain how DML operations are performed on a View.

Or,

- ® Are Views used only for SELECT queries?
- 9 How to fetch rows of a table?
- 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?

## O 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?
- ® 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.
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