# #Top 25 SQL Interview Questions and Answers:🡪 (by techTFQ):

Link: <https://techtfq.com/blog/top-20-sql-interview-questions>

# Q1) **What are DDL and DML languages? Give example.**

# **Q2)What is the difference between DELETE and TRUNCATE statement?**

Q3) **Why do we use CASE Statement in SQL? Give example**

**Q4)** **What is the difference between LEFT, RIGHT, FULL outer join and INNER join?**

**Q5)** **What is the difference between DISTINCT and GROUP BY?**

**Q6)** **What are the rules to follow when using UNION operator?**

**Q7)** **What are aggregate functions? Name and explain different types of aggregate functions in SQL?**

**Q8)** **What is the difference between RANK, DENSE\_RANK and ROW\_NUMBER window function?**

**Q9)** **Can we use aggregate function as window function? If yes then how do we do it?**

**Q10)** **How can you convert a text into date format? Consider the given text as “31-01-2021“.**

**Q11)** **Imagine there is a FULL\_NAME column in a table which has values like “Elon Musk“, “Bill Gates“, “Jeff Bezos“ etc. So each full name has a first name, a space and a last name. Which functions would you use to fetch only the first name from this FULL\_NAME column? Give example.**

**Q12)** **What are subqueries? Where can we use them?**

**Q13)** **Is it good to have the same subquery multiple times in your query? If no then how can you solve this?**

**Q14)** **Difference between WHERE and HAVING clause**

**Q15)** **What are indexes? Why do we use it?**

**Q16)** **What are steps you would take to tune a SQL query?**

**Q17)** **What is the difference between primary key, unique key and foreign key**

**Q18)** **What is the difference between a view and a synonym?**

**Q19)** **When can a function NOT be called from SELECT query?**

**Q20)** **What is a trigger?**

**Q21)** **What is the difference between a views and a materialized views?**

**Q22)** **What is MERGE statement?**

**Q23)** **Which function can be used to fetch yesterdays date? Provide example.**

**Q24)** **What is the difference between a function and a procedure?**

**Q25)** **What is PRAGMA AUTONOMOUS TRANSACTION?**

**#SQL INTERVIEW QUESTIONS:**

Link1:<https://www.guru99.com/sql-interview-questions-answers.html>

Link2: <https://www.interviewbit.com/sql-interview-questions/>

### What is DBMS?

### What is RDBMS?

### What is SQL?

### What is a Database?

What is the difference between SQL and MySQL?

### What are tables and Fields?

What are Entities and Relationships?

### What is data Integrity?

### What are constraints in SQL?

### What is a primary key?

### What is a foreign key?

### What is a unique key?

### What is a join?

### What are the types of join and explain each?

### What is Self-Join?

### What is Cross-Join?

What is the SELECT statement?

What are some common clauses used with SELECT query in SQL?

### What is a relationship and what are they?

### What is normalization?

### What is Denormalization?

### What are all the different normalizations?

### What is a View?

### What is an Index?

### What are all the different types of indexes?

What is the difference between Clustered and Non-clustered index?

What is Cursor? How to use a Cursor?

### What is a query?

### What is subquery?

### What are the types of subquery?

### What is a trigger?

### What is Datawarehouse?

How can you get a list of all databases in MySQL?

### What is a stored procedure?

### What is recursive stored procedure?

What are the TRUNCATE, DELETE and DROP statements?

### What is the difference between DELETE and TRUNCATE commands?

### What is the difference between TRUNCATE and DROP statements?

### What are local and global variables and their differences?

### What is Auto Increment?

### What is user defined functions?

### Advantages and Disadvantages of Stored Procedure?

### What is Online Transaction Processing (OLTP)?

### What is CLAUSE?

### What is an ALIAS command?

### What are aggregate and scalar functions?

### Which operator is used in query for pattern matching?

### How to select unique records from a table?

### What is the command used to fetch first 5 characters of the string?

### How to fetch alternate records from a table?

### How to fetch common records from two tables?

### How can you create an empty table from an existing table?

Q) WHAT””” IS TRIGGER?

ANS: A trigger in MySQL **is a special type of stored procedure that is invoked automatically in response to an event**. Each trigger is associated with a table, which is activated on any DML statement such as **INSERT, UPDATE**, or **DELETE**.

The main difference between the trigger and procedure is that a trigger is called automatically when a data modification event is made against a table. In contrast, a stored procedure must be called explicitly.

Q.)INDEXES?

**Ans: sql specialists are always aiming for a good balance between the improvements of speed**

**search and the resources used for its execution.**

|  |  |
| --- | --- |
| **FOR Small datasets** | The cost of having an index might be higher than the benefits. |
| **FOR Large datasets** | A well optimizied index can make a positive impact on the search process. |

What is mysql and sql?

Ans:

MySQL is a **relational database management system** (RDBMS) developed by Oracle that is based on structured query language (SQL). A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network.

What is difference between SQL and MySQL?

Ans:

SQL is a language for querying databases and MySQL is an open source database product. SQL is used for accessing, updating and maintaining data in a database and MySQL is an RDBMS that allows users to keep the data that exists in a database organized.