**SQL Interview Questions**

**Q1) What is difference between where clause and having?**

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| **Sr No** | **where** | **having** |
| **1** | WHERE Clause is used to filter the records from the table based on the specified condition. | HAVING Clause is used to filter record from the groups based on the specified condition. |
| **2** | WHERE Clause can be used without GROUP BY Clause | HAVING Clause cannot be used without GROUP BY Clause |
| **3** | WHERE Clause cannot contain aggregate function | HAVING Clause can contain aggregate function |
| **4** | WHERE Clause can be used with SELECT, UPDATE, DELETE statement | HAVING Clause can only be used with SELECT statement |
| **5** | WHERE Clause is used before GROUP BY Clause | HAVING Clause is used after GROUP BY Clause |
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**Q2) How to import a csv file as table in MySQL?**

From the schema section, select a database, right click on its tables. Select Table Data Import Wizard. Select the desired csv file and click next, match the columns of the files to its corresponding data types and then click on import.

**Q4) What is group by in sql?**

**Q5) What are Joins. Explain the different types of Joins?**

**Q6) What is difference between Union and Union All in SQL**

**Q7) What is the difference between drop, delete and truncate?**

**Q8) How to select unique records from a table**

**Q9) How to fetch Nth highest record from a table.**

**Q10) What are constraints in SQL. Explain the different types of constraints.**

**Q11) What is primary key and foreign key. Explain their characteristics.**

**Q12) Write a sql query to fetch the current date.**

**Q13) What are entities and relationships**

**Q14) What is difference between drop and truncate.**

**Q15) What is a schema in SQL?**

**Q16) What is difference between candidate key and alternate key**

**Q17) What are different types of commands used in SQL?**

**Q18) How can you use alter command to**

1. **Change column name**
2. **Change column data type**
3. **Add a new column**
4. **Add a new constraint**
5. **Drop a column**

**Q19) How will you show description of the table**

**Q20) How to display the names of different tables from a database**

**Q21) How to write case statements in SQL?**

**Q22) What are alias. How to use them in sql**

**Q23) How to rename a table in SQL?**

**Q24) How to create an int column that increments automatically without having to insert the data into the table**

**Q25) How to fetch nth lowest marks from student table. Write a query for n = 7**

**Q26) What is difference between left and right join. Explain with examples.**

**Q27) What is self-join. Explain with an example**

**Q28) What is full join? How to implement full join in MYSQL?**

**Q29) What are views. Why to create and execute views in SQL? Do views actually store data.**

**Q30) What is a sub query. Explain with an example.**

**Q31) What is nested subquery. Explain with examples.**

**Q32) What are the clauses where sub query can be defined. Explain each case with an example.**

**Q33) How to export a SQL query as a csv file?**

**Q34) Explain correlated sub query. Where can we use such a query. Explain with example**

**Q35) What is difference between rank() and dense\_rank() functions? Explain with example.**

**Q36) Explain the use of sub query inside**

1. **From clause**
2. **Joins**

**Q37) What is cross Join. Explain with an example**

**Q38) Considering two different examples explain:**

1. **Usage of sub query inside joins**
2. **Using Joins inside subquery**

**Q39) What are indexes? Explain with an example. Why do we use indexes>**

**Q40) What might be the impact of updating a view on the**

1. **Source table**
2. **View**

**Explain with different scenarios**

**Q41) How to fetch all the records containing null values from a table**

**Q42) Write a query to fetch the non-matching records from the**

1. **Left table using left join**
2. **Right table using right join**

**Assume appropriate tables and its corresponding columns**

**Q43) How will you connect MySQL with Python. Which library will be used? Explain with the code**

**Q44) What is the impact of dropping the source table based on which a view has been created on the corresponding view.**

**Q46) Explain the use of wildcards in SQL. Example with example.**

**Q47) How to how add 3 months to a given date using SQL Query.**

**Q48) Write a query to convert date given in the format YYYY/MM/DD to DD -YY WeekdayFullName MonthFullName**

**Q49) How to fetch 5 characters from a string (containing 15 characters) starting from index 7. Explain with an example**

**Q50) How to display unique values from a column**

**Q51) How to count all the records from a column where the values are not null.**