

# T-SQL Interview Questions and Answers

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## 1. What is a Table?

A Table is an object in the database that contain all the data in a database.

## 2. What are the Types of Tables?

Partitioned Tables

Temporary Tables

System Tables

Wide Tables

## 3. What is a Primary key?

A Primary key is a column or combination of columns that contain values that uniquely identify each row in the table.

## 4. What is a query ?

A query is the result set of a SELECT statement. The select command is used to retrieve rows and columns from one or more tables.

## 5. What is a DML statement?

Data Manipulation Language (DML) allow you to retrieve, change or add information in the database. DML statements include the following:

SELECT

INSERT

UPDATE

DELETE

MERGE

BULK INSERT

TRUNCATE TABLE

## 6. What is a subquery in T-SQL?

A subquery is a query that is nested inside a SELECT, INSERT, UPDATE, or DELETE statement, or inside another subquery.

## 7. What is a join?

Join is a SQL keyword used retrieve rows from two or more tables based on the relationship between the columns of the tables.

## 8. What are the types of join in T-SQL?

Inner join

Outer join

Left outer join

Right outer join

Full outer join

Cross join

## 9. What is the difference between UNION and UNION ALL?

UNION returns only distinct values, eliminate duplicate rows.

UNION ALL will not eliminate duplicate rows, returns all values.

## 10. What is the difference between Char and Varchar Data Type?

The Char type uses the entire declared length even if fewer characters are stored in the variable. Practically loads empty spaces. The Varchar type does not use the entire declared length, it uses only the length loaded with characters.

## 11. What is an Index?

Index helps to search for information faster in a database when using a simple select in a table or a complex query.

## 12. What are the types of indexes in T-SQL?

Clustered

Nonclustered

Unique

Filtered

Columnstore

Hash

Memory-Optimized Nonclustered

XML

Spatial

### 13. What is a view?

A view is a virtual table based on a SELECT statement of one or more tables.

### 14. What are the types of views in T-SQL?

Indexed Views

Partitioned Views

System Views

### 15. What is a trigger?

A trigger is a special type of stored procedure that is fired when a specific type of data modification is made against a specific table or column.

### 16. What are the Types of DML Triggers?

AFTER trigger

INSTEAD OF trigger

### 17. What are the types of functions in T-SQL?

Scalar Function

Table-Valued Functions

## 18. What is a synonym?

A synonym is a database object that provides an alternative name for another database object, referred to as the base object.

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