

Part - 3

# SQL Basics

## Interview

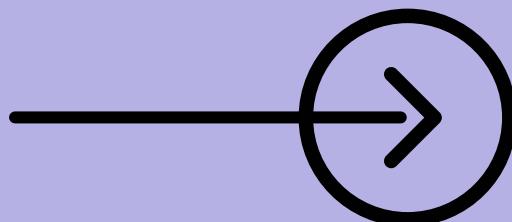
## Questions and Answers...!



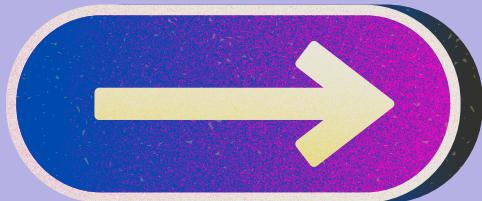
Sharing with  
Counter questions ↑



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



## **How drop Works;**

- **The `DROP` statement completely removes a table from the database, including its data, structure, and all associated elements like indexes, constraints, and permissions.**

**Example:**

```
DROP TABLE employees;
```

- **This command deletes the `employees` table and everything related to it from the database.**



**How TRUNCATE works**

## **TRUNCATE;**

- ➡ The **TRUNCATE** statement deletes all rows in a table but keeps the table structure intact.

**It is typically faster than DELETE because it uses fewer system resources and minimal logging.**

### **Example:**

```
TRUNCATE TABLE employees;
```

- This command removes all data from the employees table but leaves the table structure, indexes, and constraints in place.



Difference between **DROP** and **TRUNCATE**

## Difference;

- ➡ • **DROP** Removes the entire table, including its structure and data.
- ➡ • **TRUNCATE** Removes only the data, keeping the table structure.
  
- ➡ • **DROP** Can be slower due to the additional tasks of deleting related objects and the table structure.
- ➡ • **TRUNCATE** is Faster than **DELETE** because it uses minimal logging and doesn't delete the structure.
  
- ➡ • **DROP** Cannot be rolled back; once executed, it permanently deletes the table.
- ➡ • **TRUNCATE** Typically cannot be rolled back; it permanently deletes the data.
  
- ➡ • **DROP** Affects the database schema by removing the table and its relationships.
- ➡ • **TRUNCATE** Does not affect the schema; only removes data.
  
- ➡ • **DROP** is Used when you need to permanently delete a table and all its contents.
- ➡ • **TRUNCATE** is used when you need to quickly clear all data from a table but plan to reuse the table structure.

## Example:

- **Scenario:** You no longer need the employees table and want to remove it completely from the database.

**Use DROP**

```
DROP TABLE employees;
```

- **Scenario:** You want to quickly clear out all employee records but keep the table for future use.

**Use TRUNCATE**

```
TRUNCATE TABLE employees;
```

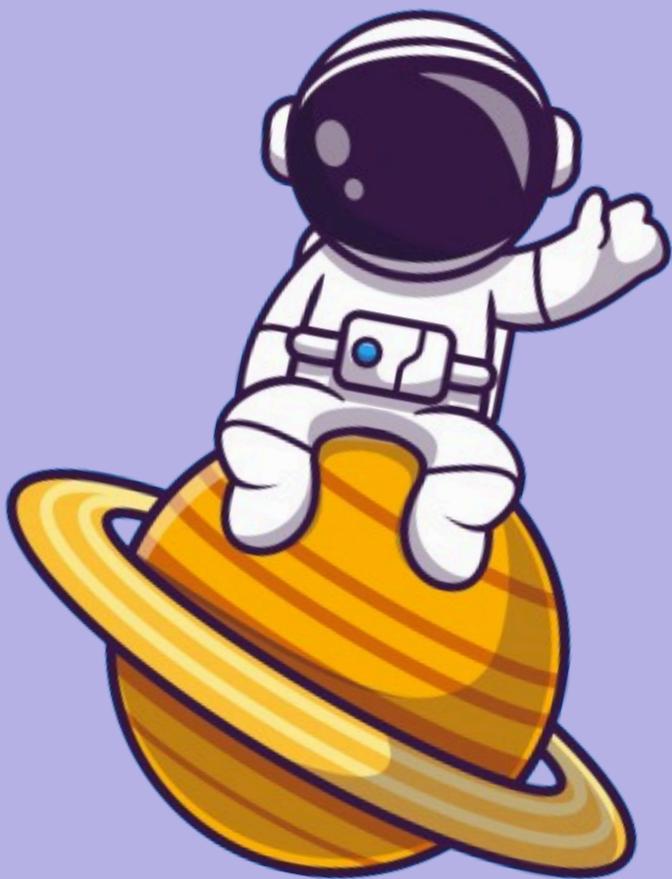


wanna see some  
Counter Questions

# **1. Can TRUNCATE trigger a DELETE trigger in SQL?**

→ **No, TRUNCATE does not trigger a DELETE trigger because it is not considered a row-level operation.**

**It works on the table as a whole and bypasses any DELETE triggers that might be set on the table.**



**Next Question**

## **2. What happens to the table's constraints and indexes when you use TRUNCATE?**

- When we use TRUNCATE, the table's constraints and indexes remain intact.

**The operation only removes the data, leaving the table structure, including constraints, indexes, and relationships, unchanged.**



### **3. Is it possible to TRUNCATE a table that is referenced by a foreign key?**

- **No, you cannot TRUNCATE a table that is referenced by a foreign key constraint.**

**The TRUNCATE operation requires that there be no foreign key dependencies on the table, as it cannot be rolled back and would violate referential integrity.**



*Next Question*

## **4. How does the performance of TRUNCATE compare to DELETE?**

→ **TRUNCATE** is generally faster than **DELETE** because it deallocates the data pages used to store the table data, rather than logging each row deletion individually.

**This makes TRUNCATE more efficient for clearing all data from a table, especially for large tables.**



## **5. When should you use DROP versus TRUNCATE?**

→ **Use DROP when you want to permanently delete a table and all its contents from the database.**

**Use TRUNCATE when you want to quickly clear out all data from a table but keep the table structure intact for future use.**



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