

# Difference between Assertions and Triggers in DBMS



## Difference between Assertions and Triggers :

S.No	Assertions	Triggers
1.	We can use Assertions when we know that the given particular condition is always true.	We can use Triggers even particular condition may or may not be true.
2.	When the SQL condition is not met then there are chances to an entire table or even Database to get locked up.	Triggers can catch errors if the condition of the query is not true.
3.	Assertions are not linked to specific table or event. It performs task specified or defined by the user.	It helps in maintaining the integrity constraints in the database tables, especially when the primary key and foreign key constraint are not defined.
4.	Assertions do not maintain any track of changes made in table.	Triggers maintain track of all changes occurred in table.
5.	Assertions have small syntax compared to Triggers.	They have large Syntax to indicate each and every specific of the created trigger.
6.	Modern databases do not use Assertions.	Triggers are very well used in modern databases.
7.	Purpose of assertions is to Enforces business rules and constraints.	Purpose of triggers is to Executes actions in response to data changes.
8.	Activation is checked after a transaction completes	Activation is activated by data changes during a transaction
9.	Granularity applies to the entire database	Granularity applies to a specific table or view