



A **trigger** is a **named database object** that is **associated with a table** and that **activates when a particular event occur for the table**.

A trigger contains SQL statements or a set of SQL statements which is stored to be activated or fired when an event associating with a database table occurs. The event can be any event including INSERT, UPDATE and DELETE.

Sometimes a trigger is referred as a special kind of stored procedure. The difference between a trigger and a stored procedure is that a trigger is activated or called when an event happens in a database table. Trigger is automatically called upon when the particular event is going to occur in the associated table, a stored procedure must be called manually just like a usual method calling in programming.

1. SQL trigger is very useful when you use it to audit the changes of data in a database table.

Triggers can be executed before data is inserted or updated into the database

PostgreSQL provides two main types of triggers: row and statement-level triggers. The differences between the two kinds are how many times the trigger is invoked and at what time.

For example, if you issue an `UPDATE` statement that affects 20 rows, the row-level trigger will be invoked 20 times, while the statement level trigger will be invoked 1 time.

For example, `OLD` and `NEW` represent the states of the row in the table before or after the triggering event.

PostgreSQL also provides other local variables preceded by `TG_` such as `TG_WHEN`, and `TG_TABLE_NAME`.

Once you define a trigger function, you can bind it to one or more trigger events such as [INSERT](#), [UPDATE](#), and [DELETE](#).

Points to be remember to create trigger

- A trigger must be associated with a specific table. Without a table trigger does not exist so you have to specify the table name after the `ON` keyword.
- You can write the logic between `BEGIN` and `END` block of the trigger.
- MySQL gives you `OLD` and `NEW` keyword to help you write trigger more efficient. The `OLD` keyword refers to the existing row before you update data and the `NEW` keyword refers to the new row after you update data.

Triggers in SQL

