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# **MySQL Triggers Implementation**



<u>Summary</u>: in this tutorial, you will learn about **MySQL triggers implementation**. In addition, we will show you how MySQL stores trigger definitions and the limitations of triggers in MySQL.

## Introduction to MySQL triggers

In MySQL, a trigger is a set of SQL statements that is invoked automatically when a change is made to the data on the associated table. A trigger can be defined to be invoked either before or after the data is changed by INSERT, UPDATE or DELETE statements. MySQL allows you to define maximum six triggers for each table.

- ▶ BEFORE INSERT activated before data is inserted into the table.
- ▶ AFTER INSERT activated after data is inserted into the



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table.

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Wheer way use a statement that makes some of the tratile but does not use INSERT , DELETE proded significant production in the production of the production Our MySQL tutorials are trigger is not invoked. For example, the example, the example statement practical and easy-to-follow, removes the whole data of a table but string not invoked trigger with SQL script and **ORDER BY Clause** associated with that table screenshots available. More

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There are some statements that use the ing statement MUSAL interest with Quarte Place chetatement LOAD statement. If you use these statements the corresponding

triggers associated with the tables if available will be invoked. PHP MySQL Transaction

Triggers defined for a table must have a unique name. You can have the same trigger name that defines for different tables but it Copyright © 2014 by www.mysqltutorial.org. All Rights Reserved. is not recommended. In practice, the names of triggers follow the following naming convention:

1 (BEFORE | AFTER) tableName (INSERT | UPDATE | DELETE)

## MySQL Triggers Storage

MySQL stores triggers in a data directory e.g., /data/classicmodels/ with the files named tablename.TRG and triggername.TRN:

- ▶ The tablename. TRG file maps the trigger to the corresponding table.
- ▶ the triggername. TRN file contains the trigger definition.



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2 of 4 22-08-2014 11:50 PM You can back up the MySQL triggers by copying the trigger files to the backup folder. You can also backup the triggers using the *mysqldump* tool.

## MySQL Trigger Limitations

MySQL triggers have all features in standard SQL however there are some limitations that you should know before using them in your applications.

#### MySQL triggers cannot:

- ▶ Use SHOW , LOAD DATA , LOAD TABLE , BACKUP DATABASE, RESTORE , FLUSH and RETURN statements.
- ▶ Use statements that commit or rollback implicitly or explicitly such as COMMIT, ROLLBACK, START TRANSACTION, LOCK/UNLOCK TABLES, ALTER, CREATE, DROP, RENAME, etc.
- ▶ Use prepared statements such as PREPARE , EXECUTE , etc.
- Use dynamic SQL statements.
- Call a stored procedure or stored function.

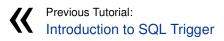
In this tutorial, we have shown you how triggers are implemented in MySQL. We also discussed about trigger's storage as well as trigger's limitations in MySQL.

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