

Nama : Afina Putri Dayanti
NIM : 825200049
Jurusan : Sistem Informasi
Mata Kuliah : Database Design and Management (Praktikum)

Vocabulary

Identify the vocabulary word for each definition below:

Application triggers	Execute automatically whenever a particular event occurs within an application.
Triggers	Programs to execute a specific action whenever a specific event occurs in an application or in the database.
Database triggers	Execute automatically whenever a data event (such as DML or DDL) or system event (such as logon or shutdown) occurs on a schema or database. Should be used sparingly so as to not slow down the database or create complex interdependencies.

Try It / Solve It

1. What are triggers commonly used for in a database?

Answer :

- Enhance complex database security rules
- Create auditing records automatically
- Enforce complex data integrity rules
- Create logging records automatically
- Prevent tables from being accidentally dropped
- Prevent invalid DML transactions from occurring
- Generate derived column values automatically
- Maintain synchronous table replication
- Gather statistics on table access
- Modify table data when DML statements are issued against views

2. List the types of events that cause a database trigger to fire?

Answer :

- DML operations on a table
- DML operations on a view, with an INSTEAD OF trigger
- DDL statements, such as CREATE and ALTER
- Database system events, such as when a user logs on or the DBA shuts down the database

3. What is the most important thing to check before creating a database trigger?

Answer : Recursive (trigger that calls itself) and cascading effects

4. Describe four differences between triggers and procedures.

Answer :

Triggers	Procedures
Defined with CREATE TRIGGER	Defined with CREATE PROCEDURE
Data Dictionary contains source code in USER_TRIGGERS	Data Dictionary contains source code in USER_SOURCE

Implicitly invoked	Explicitly invoked
COMMIT, SAVEPOINT, and ROLLBACK are not allowed	COMMIT, SAVEPOINT, and ROLLBACK are allowed