

Name: Advait Naik

Roll No: 31352



DBMSL ASSIGNMENT 7

* TITLE: TRIGGERS IN SQL

* PROBLEM STATEMENT:

Write a database trigger on library table. The system should keep track of the records that are being updated or deleted records should be added in library audit table.

* OBJECTIVE:

- 1) Understand the concept of row-level & statement level trigger
- 2) Understand the concept of trigger initiated against event

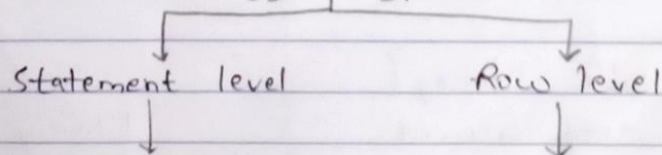
* REQUIREMENTS:

MySQL installed computer system

* THEORY:

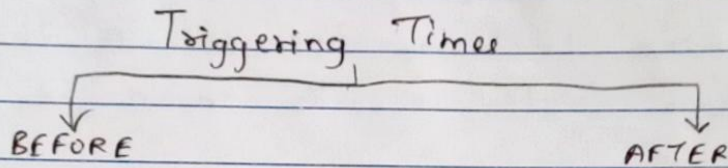
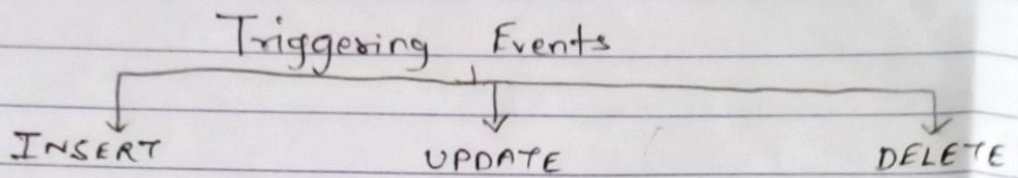
A database trigger is a PL/SQL program unit, which gets fired automatically whenever the data event such as DML/DPL event occurs.

Trigger Types



trigger action executed once for manipulation operation

trigger action executed for each affected row



- General Syntax for ^{ea} Creation of Trigger:-

```

create trigger <trigger-name>
[before | after] [insert | update | delete] of
  [col1 | col2 ...] on <table-name>
for each row
when <condition>
begin
  statements
end;
  
```

* TEST CASES :

Input	Output
1) create table library (id int auto-increment primary key, name varchar(20), price int);	library table created

2) create table audit_course
(id, int auto-increment
primary key,
name varchar(20),
price int);

• Audit table
created

3) update library
set price = 4000
where name = 'SPOS';

entry in library
with name = 'SPOS'
updated

4) delete from library
where name = 'CN'.

entry in library

5) select * from audit_course

ID	Name	Price
3	SPOS	3000
4	CN	2000

* CONCLUSION:

By implementing this assignment, we are ⁶able to create triggers, understand their types, events & time to create a backup table.