Isiggers in SQL is a special type of storage procedure that is automatically executed or fixed when certain event occurs on a specified table or view in a database. Trigger are used to enforce business rules, validate data or keep data in sync accross tables or database.

Trigger can be set to execute when:

Insert Operation happens UPDATE DELETE

There are 6 types of triggers in MYSOL.

Before bigger :- A BEFORE TRIGGER is executed before the specified action (Insert, Update, Delete) is performed on table.

This allows you to modify the data before it is committed to the table, such as validating or altering values.

CREATE TRIGGER before insent mygen BEFORE INSERT ON employees. FOR EACH ROW

BEGIN

SET NEW. salary = ROUND(NEW. salary, 2);

END;

- 2) AFTER Trigger: A AFTER trigger is executed after the specified action CINSERT, UPDATE, DELETE) has been performed on the table.
- · You can use this trigger operation like logging or upduting other related tables after the primary action is complete.

CREATE TRIGGER after update trigger AFTER UPDATE ON employees FOR EACH ROW

INSERT INTO audit-log (action, old-salory, new salory)

values ('Update', OLD. salary, NEW. Salary);

END;

3) BEFORE INSERT TRIGGER:-

- · A Trigger specifically afor when an INSERT operation is about to occur on a table.
- · You can use this type of trigger to validate or adjust the data befor it is inserted.

CREATE TRIGGER before insert higger

BEFORE I**NS**ERT ON employees FOR EACH ROW

BEGIN

F NEW Salary < 0 THEN

SIGNAL SOUSTATE "45000" SET MESSAGITEXT 'Salary can't
be Negative';

END IF;

4) AFTER INSERT TRIGGER: - A trigger specifically for when an INSERT operation has been completed on a table.

· This type can be used for logging or performing additional tasks based on the inserted Data.

CREATE TRIGGER after-insert-emp AFTER INSERT ON employees FOR EACH ROW BEGIN

INSERT INTO 109-table (action, employee_id) VALUES C'INSERT', New id);

END;

57 BEFORE UPDATE Trigges: A trigger specifically for when an UPDATE operation to is about to be performed on a table.

· You can be use this type to validate or modify data befor the update happen.

CREATE TRIGGER before update emp BEFORE UPDATE ON employees. FOR EACH ROW

BEGIN

SIGNAL SOLSTATE "45000" SET MESSAGE_TEXT = "School Cantle Megabin"

ENDIF;

6 AFTER UPDATE TRIGGER: - A trigger that is executed after an UPDATE operation has been completed.

. This type can be used for actions like auditing or performing additional operations after the update.

CREATE TRIGGER after updule emp AFTER UPDATE ON employees.

FOR EACH ROW

BEGIN

9 NSERI INTO employee audit (emp-id, old salory, new salary) VALUES (NEW. id, OID salary, NEW salary)-

END;

= 3 EFORF DELETE TRIGGER: - A trigger that is executed befor an DELETE operation is performed on a table.

- . This type can be useful for checking conditions or ensuring related data is properly managed before deletion.
- 3 AFTER DELETE TRIGGER: A trigger that is executed after a DELETE operation is completed.
- · You can use this to clean up related data or log the deletion.