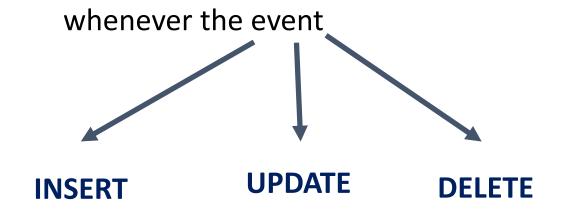
TRIGGERS

Triggers are the **special kind** of stored procedures

which get automatically executed



on the under ling table occurs.

A trigger is a database object that is attached to a table. Triggers are often referred to as a "special kind of stored procedure". The main difference between a trigger and a stored procedure is that the trigger is attached to a table and is only fired when an INSERT, UPDATE or DELETE occurs. You specify the modification action(s) that fire the trigger when it is created.

Syntax

```
CREATE TRIGGER trigger_EID

ON table_EID

FOR INSERT|UPDATE |DELETE

AS

BEGIN

SQL Statements;

END;
```

Example 1: Trigger to update the stock when product is sold.

```
CREATE TRIGGER TR_INVENT_UPDATE

ON SALES

FOR INSERT

AS

BEGIN

UPDATE INVENT SET StockQty = StockQty- (SELECT QTY FROM INSERTED)

WHERE PID = (SELECT PID FROM INSERTED);

END;
```

Example 2: Trigger to delete the order if the product Is deleted from the inventory.

```
CREATE TRIGGER TR_SALE_DELETE

ON INVENT

FOR DELETE

AS

BEGIN

DELETE FROM SALES WHERE PID = (SELECT PID FROM DELETED);

END;
```

Example 3: Trigger to update the stock when the order quantity has been updated.

```
CREATE TRIGGER TR_STOCK_UPDATE2
ON SALES
FOR UPDATE
AS
BEGIN
 UPDATE Stock SET SQty = SQty + (SELECT QTY FROM DELETED)
 WHERE PID = (SELECT PID FROM DELETED);
 UPDATE Stock SET SQty = SQty - (SELECT QTY FROM INSERTED)
 WHERE PID = (SELECT PID FROM INSERTED);
```

Example 4: Trigger to check & update the stock when the order is placed

```
CREATE TRIGGER TR_INVENT_CHECK
ON SALES
FOR INSERT
AS
BEGIN
  DECLARE @QS AS INT;
  DECLARE @QR AS INT;
  SET @QR= ( SELECT QTY FROM INSERTED);
  SET @QS = (SELECT StockQty FROM INVENT WHERE PID=(SELECT PID FROM inserted));
  IF @QS >= @QR
           Begin
                UPDATE INVENT SET StockQty = StockQty- (SELECT QTY FROM INSERTED )
                WHERE PID = (SELECT PID FROM INSERTED);
                COMMIT;
           end
  ELSE
           ROLLBACK;
```







