TRIGGERS

TRIGGERS ARE A WAY TO TRIGGER AN ACTION WHEN A CONDITION IS MET

THE ACTION THAT IS TRIGGERED COULD BE ANY STORED PROCEDURE OR COMMAND

```
CREATE TRIGGER Cap_Prices

AFTER INSERT OR UPDATE OF Price ON Products

FOR EACH ROW

WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price, OLD.Price)

END
```

TRIGGER NAME

```
CREATE TRIGGER Cap_Prices

AFTER INSERT OR UPDATE OF Price ON Products

FOR EACH ROW

WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price, OLD.Price)

END
```

WHEN MIGHT THE TRIGGER BE EXECUTED?

```
CREATE TRIGGER Cap_Prices

AFTER INSERT OR UPDATE OF Price ON Products

FOR EACH ROW

WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price, OLD.Price)

END
```

```
CREATE TRIGGER Cap Prices

AFTER INSERT OR UPDATE OF Price ON Products
FOR EACH ROW

WHEN (NEW.Price > 10000) (COULT ALSO BE DELETE)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price,OLD.Price)

END
```

```
CREATE TRIGGER Cap_Prices

AFTER INSERT OR UPDATE OF Price ON Products

FOR EACH ROW

WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price, OLD.Price)

END
```

```
CREATE TRIGGER Cap Prices
AFTER INSERT OR UPDATE OF Price ON Products
FOR EACH ROW
WHEN (NEW.Price > 10000)
BEGIN
  INSERT INTO TABLE PriceExceededWarnings
  (WarningMessage, ProductID, NewPrice, OldPrice)
  VALUES
  ('Warning - Price Limit Trigger', NEW. ProductID, NEW. Price, OLD. Price)
END
         THIS IS A ROW-LEVEL TRIGGER: TRIGGERS COULD BE ROW-
            LEVEL OR TABLE-LEVEL) DEPENDING ON WHETHER THE
       CONDITION AFFECTS A SINGLE ROW, OR THE TABLE AS A WHOLE
```

```
CREATE TRIGGER Cap Prices
AFTER INSERT OR UPDATE OF Price ON Products
FOR EACH ROW
WHEN (NEW.Price > 10000)
BEGIN
  INSERT INTO TABLE PriceExceededWarnings
  (WarningMessage, ProductID, NewPrice, OldPrice)
  VALUES
  ('Warning - Price Limit Trigger', NEW. ProductID, NEW. Price, OLD. Price)
                          WHAT IS THAT CONDITION? BTW
END
                          OLD AND NEW ARE KEYWORDS
                        SPECIFIC TO ROW LEVEL TRIGGERS
```

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WHEN THE TRIGGER FIRES?

```
CREATE TRIGGER Cap_Prices

AFTER INSERT OR UPDATE OF Price ON Products

FOR EACH ROW

WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings
(WarningMessage, ProductID, NewPrice, OldPrice)

VALUES
('Warning - Price Limit Trigger', NEW.ProductID, NEW.Price, OLD.Price)
```

END

```
CREATE TRIGGER Cap Prices
AFTER INSERT OR UPDATE OF Price ON Products
FOR EACH ROW
```

ALLOW BUT WARN WHEN (NEW.Price > 10000)

BEGIN

INSERT INTO TABLE PriceExceededWarnings (WarningMessage, ProductID, NewPrice, OldPrice) **VALUES**

('Warning - Price Limit Trigger', NEW. ProductID, NEW. Price, OLD. Price)

END

AAUHOIAIOIA I O IHNE WHEN THE TRIGGER FIRES?

TRIGGERS ARE A WAY TO TRIGGER AN ACTION WHEN A CONDITION IS MET

WITH A CHECK CONSTRAINT YOU COULD DISALLOW, BUT YOU CAN'T ALLOW BUT WARN.

TRIGGERS ARE A WAY TO TRIGGER AN ACTION WHEN A CONDITION IS MET

WITH A CHECK CONSTRAINT YOU COULD DISALLOW, BUT YOU CAN'T ALLOW BUT WARN.

WITH A TRIGGER, THE ACTION COULD BE ANY STORED PROCEDURE OR COMMAND

TRIGGERS ARE A WAY TO TRIGGER AN ACTION WHEN A CONDITION IS MET

WITH A TRIGGER, THE ACTION COULD BE ANY STORED PROCEDURE OR COMMAND

TRIGGERS SOUND REALLY COOL, BUT NOT ALL DBMS SUPPORT THEM, AND THEY ARE ACTUALLY QUITE RARELY USED

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THERE IS USUALLY NOT THAT MUCH MORE YOU NEED TO DO BEYOND WHAT CONSTRAINTS AND STORED PROC ALREADY DO