**Database Title**

# Project Team (3 students)

|  |  |  |
| --- | --- | --- |
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**PHASE 3-DB Constraints, Triggers, Assertions (Due to Jan, 5)**

# Constraints Examples x 3 (with view snapshots)

## KEY

## VALUE-BASED

## TUPLE-BASED

## COMPLEX CHECK

# Triggers x 2 (with view snapshots)

## EXAMPLE 1

CREATE TRIGGER trig1 before INSERT ON admin FOR EACH ROW

BEGIN

INSERT INTO Operation(Object,OpName) VALUES (new.userName,' inserted');

END

## EXAMPLE 2

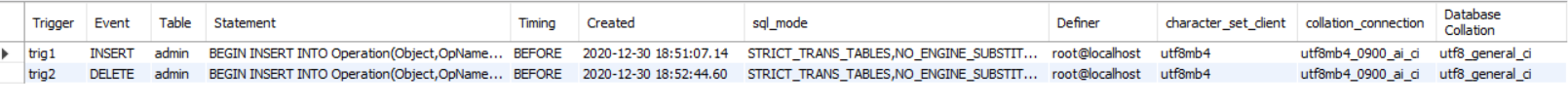
CREATE TRIGGER trig2 before delete on admin FOR EACH ROW

BEGIN

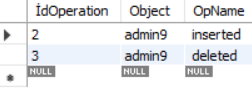
INSERT INTO Operation(Object,OpName) VALUES (old.userName,' deleted');

END

Picture of triggers:



I created Operation table to see changes



# Assertions (with view snapshots)

## EXAMPLE 1

CREATE PROCEDURE Assertion1(out var integer)

BEGIN

IF ((SELECT COUNT(\*) FROM grades)>(SELECT COUNT(\*) FROM admin)) THEN

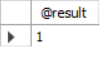
SET var = 1;

ELSE

SET var = 0;

END IF;

END



## EXAMPLE 2

CREATE PROCEDURE Assertion2(out var VARCHAR(45))

BEGIN

IF ((SELECT COUNT(\*) FROM faculty)<(SELECT COUNT(\*) FROM department)) THEN

SET var = 'True';

ELSE

SET var = 'False';

END IF;

END

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu