# Homework 3

Task 3: Output for 11-25: ( See rating\_task3.sql )

Text

Description automatically generated

Task 6: Output for 28-31: ( See rating\_task6.sql )

Text

Description automatically generated

## Part2 ( Also see rating\_part2.sql )

36:

SELECT MAX(year) FROM Movie WHERE mID IN( SELECT mID FROM Rating WHERE rID=(SELECT rID FROM Reviewer WHERE name='Chris Jackson') );

Output:

Text

Description automatically generated with medium confidence

37:

SELECT title FROM Movie WHERE mID IN( SELECT mID FROM Rating GROUP by mID HAVING count(mID) > 2 );

Output:

Text

Description automatically generated

## Part3 ( Also see social.sql )

38:

drop table if exists Student\_summary\_trigger;

/\* Create table and populate with initial dataset \*/

create table Student\_summary\_trigger(grade int, numStudents int DEFAULT 0);

INSERT INTO  Student\_summary\_trigger values ( 9,0);

INSERT INTO  Student\_summary\_trigger values ( 10,0);

INSERT INTO  Student\_summary\_trigger values ( 11,0);

INSERT INTO  Student\_summary\_trigger values ( 12,0);

drop TRIGGER if exists Student\_summary\_trigger\_ai;

DELIMITER //

create TRIGGER Student\_summary\_trigger\_ai

    AFTER INSERT ON Highschooler

    for each row

    UPDATE Student\_summary\_trigger  SET numStudents = numStudents+1 WHERE grade = NEW.grade;//

DELIMITER ;

drop TRIGGER if exists Student\_summary\_trigger\_ad;

DELIMITER //

create TRIGGER Student\_summary\_trigger\_ad

    AFTER DELETE ON Highschooler

    for each row

    UPDATE Student\_summary\_trigger  SET numStudents = numStudents-1 WHERE grade = OLD.grade;//

DELIMITER ;

drop TRIGGER if exists Student\_summary\_trigger\_au;

DELIMITER //

create TRIGGER Student\_summary\_trigger\_au

    AFTER UPDATE ON Highschooler

    for each row

    begin

        if NEW.grade != OLD.grade THEN

            UPDATE Student\_summary\_trigger  SET numStudents = numStudents-1 WHERE grade = OLD.grade;

            UPDATE Student\_summary\_trigger  SET numStudents = numStudents+1 WHERE grade = NEW.grade;

        end if;

    end;//

DELIMITER ;

39:

drop TRIGGER if exists Highschooler\_bi;

DELIMITER //

create TRIGGER Highschooler\_bi

    BEFORE INSERT ON Highschooler

    for each row

    begin

        if NEW.grade is NULL THEN

            SET NEW.grade = 9;

        ELSEIF NEW.grade < 9 OR NEW.grade > 12 THEN

            SET NEW.grade = NULL;

        end if;

    end;//

DELIMITER ;