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Section 1B

Homework 3

1. a. CHECK (weight <= 5)

b. CREATE TRIGGER check_weight
AFTER INSERT ON Laptop
REFERENCING NEW ROW AS nrow
FOR EACH ROW
WHEN (nrow.weight > 5)
BEGIN
UPDATE Laptop
SET weight = NULL
WHERE model=nrow.model
END
2. (1,8), (100,0), (100,0)
3. a. CREATE VIEW DeptInfo AS
SELECT dept, avg(salary) avgsalary FROM Employees
GROUP BY dept

CREATE VIEW EmployeeNames AS
SELECT ename FROM Employees

b. SELECT for DeptInfo and SELECT, DELETE for EmployeeNames

c. He could see individual salaries only if he decides to “fire” every single person except for one person. Then that person’s salary would show up in DeptInfo.

d. INSERT INTO DeptInfo VALUES(‘Computer Science’, 999999);

e. GRANT SELECT, UPDATE ON Employees TO Joe WITH GRANT
OPTION
GRANT SELECT, UPDATE ON EmployeeNames TO Joe WITH GRANT
OPTION

He should not be able to see DeptInfo since we didn’t grant SELECT on it

f. REVOKE SELECT ON EmployeeNames FROM Joe CASCADE

This should remove AllNames since it is dependent on EmployeeNames.

4. Since this query computes the union of 8 different groupings of Sales, we can just multiply all the possibilities for each column including the option 'all'. So we just multiply $\text{item_name (5)} * \text{color (4)} * \text{clothes_size (4)} = 80$ tuples