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CS 143 HW 3

1.
(a) CHECK (weight < 5)
(b) CREATE TRIGGER weight
      AFTER INSERT ON Laptop
         REFERENCING NEW ROW AS NR
         FOR EACH ROW
      WHEN (weight > 5)
      INSERT INTO Laptop (NR.model, NR.speed, NR.ram, NR.hdd, NULL);

2. CREATE ASSERTION Restraint
      CHECK (NOT EXIST(
         SELECT FROM R NATURAL JOIN S
         WHERE a = NULL))

3. (1, 8), (100, 0), (100, 0), (100, 0)

4. a) CREATE VIEW EmployeeNames AS
      SELECT ename FROM Employees
CREATE VIEW DeptInfo AS
      SELECT dept, AVG(salary) avgsalary FROM Employees GROUP BY dept
b) SELECT, DELETE (Employees)
c) If the secretary has SELECT and DELETE privileges, he would also be able to see the salaries of the employees.
d) INSERT INTO DeptInfo VALUES ('newdept', 5000);
e) GRANT SELECT ON Employees To 'Joe' WITH GRANT OPTION
GRANT SELECT ON EmployeeNames TO 'Joe' WITH GRANT OPTION
Joe cannot read the DeptInfo view.
f) REVOKE SELECT ON Employees FROM 'Joe' CASCADE
The EmployeeNames and DeptInfo views still remain.