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CS 143 HW 5

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.