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CS 143 HW 2

1.

(a) SELECT person-name FROM Work WHERE salary > ALL

(SELECT salary FROM Employee E, Work W WHERE E.person-name = W.person-name AND E.city = ‘Los Angeles’)

(b) SELECT manager-name FROM (SELECT \* FROM Work W1, Manage M1 WHERE W1.person-name = M1.manager-name) S WHERE S.salary > SOME (SELECT salary FROM Work W2, Manage M2 WHERE W2.person-name = M2.person-name)

2.

(a) SELECT company-name FROM Work W1 WHERE 100000 < ALL (SELECT salary FROM Work W2 WHERE W1.company-name = W2.company-name)

(b)

(c) They would produce the same result, I believe.

3.

(a) i. SELECT name, address FROM MovieStar WHERE gender = ‘F’ INTERSECT SELECT name, address FROM MovieExec WHERE netWorth > 1000000

ii. SELECT name, address FROM MovieStar WHERE gender = ‘F’ AND name, address IN (SELECT name, address FROM MovieExec WHERE netWorth > 1000000)

(b) i. (SELECT name FROM MovieStar) EXCEPT (SELECT name FROM MovieExec)

ii. SELECT name FROM MovieStar WHERE name NOT IN (SELECT name FROM MovieEXEC)

4.

(a) SELECT AVG(speed) FROM Desktop

(b) SELECT AVG(price) FROM ComputerProduct C, Laptop L WHERE C.model = L.model AND L.weight < 2

(c) SELECT AVG(price) FROM ComputerProduct WHERE manufacturer = ‘Dell’

(d) SELECT speed, AVG (price) FROM Laptop L, ComputerProduct C WHERE L.model = C.model GROUP BY speed

(e) SELECT manufacturer FROM ComputerProduct HAVING COUNT(model) > 2

5.

(a) INSERT INTO ComputerProduct VALUES (‘HP’, 1200, 1000)

INSERT INTO Desktop VALUES (1200, 1.2, 256, 80)

(b) DELETE FROM Desktop WHERE model IN (SELECT model FROM ComputerProduct WHERE maker = ‘IBM’ AND price < 1000)

DELETE FROM ComputerProduct WHERE manufacturer = ‘IBM’ AND price < 1000

(c) UPDATE Laptop SET weight = weight + 1 WHERE model IN (SELECT model FROM ComputerProduct WHERE maker = ‘Gateway’)