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CS442

10/29/16

*I pledge my honor that I have abided by the Stevens Honor System.*

Homework 2

**Section 1**

1. ))
2. ))
3. ) –())
4. ) –())
5. ) / )

**Section 2**

SELECT age, ename

FROM Emp NATURAL JOIN Works NATURAL JOIN Dept

WHERE dname = “Hardware”

INTERSECT

SELECT age, ename

FROM Emp NATURAL JOIN Works NATURAL JOIN Dept

WHERE dname = “Software”

1. SELECT eid

FROM Emp

WHERE eid IN (SELECT MAX(SUM(D.budget))

FROM Emp E, Dept D

WHERE E.eid = D.managerid)

1. SELECT managerid

FROM Dept

EXCEPT

SELECT managerid

FROM Dept

WHERE budget <= 1000000

1. SELECT eid

FROM Emp NATURAL JOIN Works NATURAL JOIN Dept

GROUP BY salary

HAVING salary > ALL(SELECT D.budget

FROM Dept D, Emp E, Works W

WHERE E.eid = W.eid AND W.did = D.did)

1. SELECT E.ename, MAX(D.budget)

FROM Emp E, Dept D

WHERE E.eid = D.managerid

GROUP BY E.ename, D.budget

**Section 3**

1. A) ))

B) () - ())

2) a)

SELECT H.postal\_code, AVG(S.selling\_price)

FROM House H, Sold S

WHERE S.sale\_date >= 01/01/2015 AND S.sale\_date <= 12/31/2015

AND H.postal\_code IN (SELECT postal\_code

FROM House NATURAL JOIN Sold

HAVING COUNT(\*) >= 5)

GROUP BY H.postal\_code

b)

SELECT DISTINCT asking\_price, address

FROM House

WHERE COUNT(beds) >= 4 AND COUNT(baths) >= 2

EXCEPT

SELECT H.asking\_price, H.address

FROM Sold S, House H

WHERE S.house\_id = H.id