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Assignment 1

A. SELECT D.did,D.dname FROM works W,dept D WHERE D.did = W.did AND W.pct_time = 50;

В.

SELECT ename FROM emp
JOIN works ON emp.eid = works.eid
JOIN dept ON works.did = dept.did
WHERE dname IN ("Hardware", "Software", "Research")
GROUP BY ename HAVING COUNT(*) = 3;

C.

SELECT dname FROM dept WHERE did NOT IN (SELECT did FROM works);

D.

SELECT managerid FROM dept GROUP BY managerid HAVING (MIN(budget) > 1500000);

E.

SELECT ename FROM emp WHERE salary = (SELECT MIN(salary) FROM emp);

F.

SELECT E.ename FROM dept D, emp E
WHERE D.budget = (SELECT max(D.budget) FROM dept D)
AND D.managerid = E.eid;

G.

SELECT dname, AVG(salary) FROM emp JOIN works ON emp.eid = works.eid

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JOIN dept ON works.did = dept.did
WHERE budget > 50 OR budget = 50
GROUP BY dname;
H.
SELECT managerid FROM (
 SELECT managerid, SUM(budget) AS total_budget FROM dept
 GROUP BY managerid
 ) AS dept one
 WHERE total budget = (
  SELECT MAX(total budget) FROM (
   SELECT managerid, SUM(budget) AS total budget FROM dept
   GROUP BY managerid
  ) AS dept_two
  );
I.
SELECT DISTINCT(emp.ename)
FROM emp, dept, works
WHERE emp.eid = works.eid
AND dept.did = works.did
AND emp.salary <= (SELECT AVG(salary) FROM emp,
          works WHERE dept.did = works.did
          AND works.eid = emp.eid);
J.
SELECT E.ename FROM emp E,dept D, works W
WHERE E.eid = W.eid AND D.did = W.did
AND D.dname = 'Hardware'
AND NOT EXISTS
(SELECT * FROM works W1, dept D1 WHERE E.eid = W1.eid AND W1.did = D1.did AND
D1.dname <> 'Hardware');
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