Csc343 SQL Exercise 4.5 Solutions

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Q1&2) SELECT C.eid, E.ename
FROM Certified C, Aircraft A, Employees E
WHERE C.aid = A.aid
AND A.aname = 'Boeing'
AND E.eid = C.eid
O3) SELECT A.aid
FROM Flights F, Aircraft A
WHERE F.from = 'Bonn' AND F.to = 'Madras'
AND A.cruisingrange >= F.distance;
Q4) SELECT F.flno
FROM Employees E, Certified C, Flights F, Aircraft A
WHERE E.eid = C.eid
AND E.salary > 100,000
AND A.aid = C.aid
AND A.cruisingrange >= F.distance
Q5)
SELECT E.ename
FROM Certified C, Aircraft A, Employees E
WHERE C.eid = E.eid
      C.aid = A.aid
AND
AND A.cruisingrange > 3000
--(AND A.aname <> Boeing)? <--WRONG</pre>
AND C.eid NOT IN ( SELECT C2.eid
                    FROM Certified C2, Aircraft A2
                    WHERE A2.aid=C2.aid
                    AND A2.aname = 'Boeing' )
```

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06)
SELECT E.eid
FROM Employees E
WHERE E.salary = (SELECT MAX(E2.salary)
                  FROM Employees E2);
Q7) SELECT E.eid
FROM Employees E
WHERE E.salary = (SELECT MAX(E2.salary)
                  FROM Employees E2
                  WHERE E2.salary <> (SELECT MAX(E3.salary)
                                      FROM Employees E3) )
Q8)
SELECT Temp.eid
FROM (SELECT C.eid, COUNT(C.aid) AS cnt
      FROM Certified C
      GROUP BY C.eid) AS Temp
WHERE Temp.cnt = (SELECT MAX(Temp.cnt) FROM Temp)
Q9)
SELECT
        Temp.eid
FROM (SELECT C.eid, COUNT(C.aid) AS cnt
      FROM Certified C
      GROUP BY C.eid) AS Temp
WHERE Temp.cnt = 3;
      SELECT SUM(E.salaries)
010)
     FROM Employees E
```