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--CHAPTER 5 ANSWERS--
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--1. Display employee Jinku Shaw's department name.
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EQUIJOIN:
select deptname from employee e, dept d
where e.deptid=d.deptid and upper(lname)='SHAW' and upper(fname)='JINKU';
SUBQUERY:
select deptname from dept where deptid=
  (select deptid from employee where upper(lname)='SHAW' and
upper(fname)='JINKU');


--2. Find name of the supervisor for employee number 433.
-------------------------------------------------
select lname, fname from employee where employeeid=
  (select supervisor from employee where employeeid=433);


--3. Who has same qualification as Stanley Garner?
-------------------------------------------------
select lname, fname from employee where qualid=
  (select qualid from employee where lname='Garner' and fname='Stanley');


--4. Which department has more employees than department 20?
-------------------------------------------------
select deptid, count(*) from employee group by deptid having count(*)>
  (select count(*) from employee where deptid=20);


--5. Which employees are working in the company longer than Larry Houston?
-------------------------------------------------
select lname, fname from employee where hiredate<
  (select hiredate from employee where lname='Houston' and fname='Larry');


--6. Find all employees in the sales department by using a nested query.
-------------------------------------------------
select lname, fname from employee where deptid=
  (select deptid from dept where deptname='Sales');


--7. Create a new table, EMP30, and populate it with employees in
--department 30, using an existing table and a subquery.
--Use EmployeeId, Lname, Fname, HireDate and Salary columns.
-------------------------------------------------
create table emp30 as select employeeid, lname, fname, hiredate, salary from
employee where deptid=30;


--8. Add more rows to EMP30 table with employee in department 40.
--Do not transfer employee's salary.
-------------------------------------------------
insert into emp30 (employeeid, lname, fname, hiredate)
  select employeeid, lname, fname, hiredate from employee where deptid=40;


--9. Use multiple level subquery to display dependent information
--for employees, who belong to FINANCE department.
-------------------------------------------------
select * from dependent where employeeid IN
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 (select employeeid from employee where deptid=
   (select deptid from dept where deptname='Finance'));


--10. Use set operator and subquery to find employees, who do not have any
dependents.
----------------------------------------------------
select lname, fname from employee where employeeid=ANY
  (select employeeid from employee minus select distinct employeeid from
dependent);


--11. Write a subquery that finds average salary by each department.
--Check to find if employee 543's salary satisfies
--=ANY, <ANY, >ANY, <ALL, or >ALL condition against those departmental average
salaries.
----------------------------------------------------
select lname, fname from employee where employeeid=543 and salary =ANY
  (select avg(salary) from employee group by deptid);

select lname, fname from employee where employeeid=543 and salary >ANY
  (select avg(salary) from employee group by deptid);

select lname, fname from employee where employeeid=543 and salary <ANY
  (select avg(salary) from employee group by deptid);

select lname, fname from employee where employeeid=543 and salary >ALL
  (select avg(salary) from employee group by deptid);

select lname, fname from employee where employeeid=543 and salary <ALL
  (select avg(salary) from employee group by deptid);
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