

SQL practice questions #1

Write SQL queries to answer the following questions using the COMPANY database.

1. Find all female employees who make more than 50000.

```
SELECT *  
FROM EMPLOYEE  
WHERE sex = 'f' and salary > 50000;
```

2. Find the department name for department number 3.

```
SELECT dname  
FROM DEPARTMENT  
WHERE dnumber = 3;
```

3. Find the first and last names of all employees who work on project number 3.

```
SELECT fname, lname  
FROM EMPLOYEE, WORKS_ON  
WHERE ssn = essn AND pno = 3;
```

4. Find the names of the dependents of all employees who are managers.

```
SELECT dependent_name  
FROM DEPARTMENT, DEPENDENT  
WHERE mgrssn = essn;
```

5. Find the project number and project name of every project worked on by a manager.

```
SELECT pnumber, pname  
FROM PROJECT as P, DEPARTMENT as D, WORKS_ON as W  
WHERE W.essn = D.mgrssn AND W.pno = P.pnumber;
```

6. Find the SSN, first, and last names of all employees who have a dependent of the same sex.

```
SELECT ssn, fname, lname  
FROM EMPLOYEE AS E, DEPENDENT AS D  
WHERE E.sex = D.sex and E.ssn = D.essn;
```

7. Find the SSN, first, and last names of all employees who were born after their manager started managing the department they work for.

```
SELECT ssn, fname, lname  
FROM EMPLOYEE AS E, DEPARTMENT AS D  
WHERE E.dno = D.dnumber and E.bdate > D.mgrstartdate;
```

Note that this correctly gives us the empty set as a result.