Lab 3 and 4 - SQL Database System and Web Lab

Write the SQL queries for following questions:

1. Retrieve the birthdate and address of the employee(s) whose name is 'John B. Smith'.

SELECT Bdate, Address FROM Employee WHERE Fname="John" AND Mint="B" AND Lname="Smith":

2. Retrieve the name and address of all employees who work for the 'Research' department.

SELECT Fname, Lname, Address FROM Employee, Department WHERE Dname="research" AND Dnumber = Dno;

3. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birthdate.

SELECT Pnumber, Dnum, Lname, Address, Bdate FROM Project, Department, Employee WHERE Dnum=Dnumber AND Mgr_ssn=Ssn AND Plocation="Stafford";

3. Retrieve all employees whose address is in Houston, Texas.

SELECT FNAME, LNAME

FROM EMPLOYEE WHERE ADDRESS LIKE '%HOUSTON,TX%';

4. Show the resulting salaries if every employee working on the 'ProductX' project is given a 10 percent raise.

SELECT E.FNAME, E.LNAME, 1.1 * E.SALARY AS INCREASED_SAL FROM EMPLOYEE AS E, WORKS_ON AS W,PROJECT AS P WHERE E.SSN=W.ESSN AND W.PNO=P.PNUMBER AND P.PNAME="ProductX";

6. Retrieve all employees in department 5 whose salary is between \$30,000 and \$40,000.

Select *From Employee Where DNO=5 and (salary between 30000 and 40000);

7. Retrieve a list of employees and the projects they are working on, ordered by department and, within each department, ordered alphabetically by last name, first name.

SELECT DNAME, LNAME, FNAME, PNAME
FROM DEPARTMENT, EMPLOYEE, WORKS_ON, PROJECT
WHERE DNUMBER = DNO AND SSN=ESSN AND
PNO=PNUMBER
ORDER BY DNAME DESC, LNAME ASC, FNAME ASC;

8. Retrieve the names of all employees who do not have supervisors.

SELECT FName, LName FROM Employee WHERE SUPER_SSN IS NULL;