Queries(12-19)

12. 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 P.PNUMBER, P.DNUM, D.MGR_SSN, E.LNAME, E.ADDRESS, E.BDATE FROM EMPLOYEE E, DEPARTMENT D, PROJECT P WHERE E.DNO=D.DNUMBER and D.DNUMBER=P.DNUM and P.PLOCATION='STAFFORD';



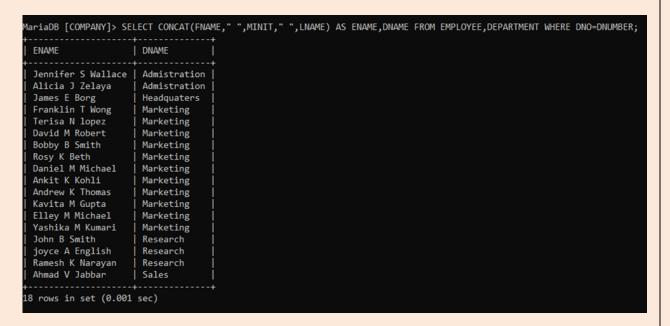
13. For each employee, retrieve the employee's name, and the name of his or herimmediate supervisor.

SELECT E1.FNAME, E1.LNAME, E2.FNAME as SupervisorFNAME, E2.LNAME as SupervisorLNAME FROM EMPLOYEE E1, EMPLOYEE E2 WHERE E1.SSN = E2.SUPER_SSN;

```
riaDB [COMPANY]> SELECT EI.FNAME, EI.LNAME, E2.FNAME as SupervisorFNAME, E2.LNAME as SupervisorLNAME FROM EMPLOYEE E1, EMPLOYEE E2 WHERE E1.SSN = E2.SUPER_SSN;
         | LNAME | SupervisorFNAME | SupervisorLNAME
                       Franklin
            Borg
                                          Wong
English
                       joyce
Franklin | Wong
John | Smith
                                          Narayan
                      David
                                           Robert
            Smith
           Robert
                                          Michael
Rosy
Ankit
          Beth
                       Ankit
                                          Kohli
          Kohli
                                          Thomas
          Kohli
James | Borg | Jennifer
Jennifer | Wallace | Yashika
                                          Wallace
                                          Kumari
Jennifer | Wallace |
Jennifer | Wallace | Alicia
 rows in set (0.001 sec)
```

14. Retrieve all combinations of Employee Name and Department Name.

- a) SELECT CONCAT(FNAME," ",MINIT," ",LNAME) AS ENAME,DNAME FROM EMPLOYEE,DEPARTMENT WHERE DNO=DNUMBER;
- b) SELECT CONCAT(FNAME," ",MINIT," ",LNAME) AS ENAME,DNAME FROM EMPLOYEE,DEPARTMENT;



15. Make a list of all project numbers for projects that involve an employee whose

last name is 'Narayan' either as a worker or as a manager of the department that controls the project.

(SELECT DISTINCT PNUMBER FROM PROJECT, DEPARTMENT, EMPLOYEE WHERE DNUM=DNUMBER AND MGR_SSN=SSN AND LNAME="NARAYAN") UNION (SELECT DISTINCT PNUMBER FROM PROJECT, WORKS_ON, EMPLOYEE WHERE PNUMBER=PNO AND ESSN=SSN AND LNAME="NARAYAN");

16.Increase the salary of all employees working on the 'ProductX' project by 15%. Retrieve employee name and increased salary of these employees.

UPDATE EMPLOYEE SET SALARY = 1.15 * SALARY WHERE DNO=(SELECT DNUM FROM PROJECT WHERE PNAME = "ProductX");

SELECT FNAME, LNAME, SALARY AS INCREASED_SALARY FROM EMPLOYEE;

```
MariaDB [company]> UPDATE EMPLOYEE SET SALARY = 1.15 * SALARY WHERE DNO=(SELECT DNUM FROM PROJECT WHERE PNAME = "ProductX");
Query OK, 3 rows affected (0.007 sec)
Rows matched: 3 Changed: 3 Warnings: 0
MariaDB [company]> SELECT FNAME, LNAME, SALARY AS INCREASED_SALARY FROM EMPLOYEE;
 FNAME
           | LNAME | INCREASED_SALARY |
  John
             Smith
                                34500.00
 Franklin
                                42000.00
             Wong
             English
                                28750.00
  joyce
  Terisa
                                68000.00
             lopez
                                59800.00
 Ramesh
             Narayan
                                52000.00
 David
             Smith
                                56000.00
 Bobby
             Beth
                                58000.00
 Daniel
                                58000.00
                                65000.00
 Ankit
             Kohli
  James
             Borg
                                55000.00
 Andrew
             Thomas
                                64000.00
 Kavita
             Gupta
                                57000.00
 Jennifer
             Wallace
                                43000.00
 Elley
             Michael
                                61000.00
 Yashika
             Kumari
                                51500.00
 Ahmad
             Jabbar
                                25000.00
 Alicia
             Zelaya
                                25000.00
18 rows in set (0.001 sec)
```

17.Retrieve a list of employees and the project name each works in, ordered by the employee's department, and within each department ordered alphabetically by employee first name.

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

DNAME	FNAME	LNAME	PNAME	l			
			 				
Admistration		Zelaya	Newbenefite	l			
Admistration	Alicia	Zelaya	Computerization	l			
Admistration	Jennifer	Wallace	Reorganisation	l			
leadquaters	James	Borg	Computerization	l			
Marketing	Franklin	Wong	Reorganisation	l			
Marketing	Franklin	Wong	Computerization	İ			
Marketing	Franklin	Wong	ProductZ	l			
Marketing	Franklin	Wong	ProductY	i			
Research	John	Smith	ProductY	i			
Research	John	Smith	ProductX	i			
Research	joyce	English	Computerization	i			
Research	joyce	English	ProductY	i			
Research	Ramesh	Narayan	Computerization	i			
ales	Ahmad	Jabbar	Computerization	i			
ales	Ahmad	Jabbar	Newbenefite	i			

18. Select the names of employees whose salary does not match with salary of any employee in department 10

SELECT FNAME, LNAME FROM EMLOYEE WHERE SALARY NOT IN (SELECT SALARY FROM EMPLOYEE WHERE DNO=10);

19.Retrieve the name of each employee who has a dependent with the same first name and same sex as the employee

SELECT E.FANME, E.LAME FROM EMPLOYEE AS E WHERE E.SSN IN (SELECT ESSN FROM DEPENDENT AS D WHERE E.FNAME=D.DEPENDENT_NAME AND E.SEX=D.SEX);

```
MariaDB [COMPANY]> SELECT E.FNAME, E.LNAME FROM EMPLOYEE AS E WHERE E.SSN IN (SELECT ESSN FROM DEPENDENT AS D WHERE E.FNAME-D.DEPENDENT_NAME AND E.SEX-D.SEX);

| FNAME | LNAME |
| Alicia | Zelaya |
| 1 row in set (0.001 sec)
```