

DBMS Lab – Experiment 7

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1.

```
mysql> SELECT E.Fname, E.Lname
-> FROM EMPLOYEE E
-> JOIN WORKS_ON W ON E.Ssn = W.Essn
-> JOIN PROJECT P ON W.Pno = P.Pnumber
-> WHERE E.Dno = 5 AND W.Hours > 10 AND P.Pname = 'ProductX';
+-----+-----+
| Fname | Lname |
+-----+-----+
| John  | Smith |
| Joyce | English |
+-----+-----+
2 rows in set (0.03 sec)
```

2.

```
mysql> SELECT E.Fname, E.Lname
-> FROM EMPLOYEE E
-> JOIN DEPENDENT D ON E.Ssn = D.Essn
-> WHERE E.Fname = D.Dependent_name;
Empty set (0.00 sec)
```

3.

```
mysql> SELECT E.Fname, E.Lname
-> FROM EMPLOYEE E
-> JOIN EMPLOYEE S ON E.Super_ssn = S.Ssn
-> WHERE S.Fname = 'Franklin' AND S.Lname = 'Wong';
+-----+-----+
| Fname | Lname |
+-----+-----+
| John  | Smith |
| Joyce | English |
| Ramesh | Narayan |
+-----+-----+
3 rows in set (0.00 sec)
```

4.

```
mysql> SELECT E.Fname, E.Lname
-> FROM EMPLOYEE E
-> WHERE NOT EXISTS (
->     SELECT P.Pnumber
->     FROM PROJECT P
->     WHERE NOT EXISTS (
->         SELECT W.Essn
->         FROM WORKS_ON W
->         WHERE W.Pno = P.Pnumber AND W.Essn = E.Ssn
->     )
-> );
Empty set (0.02 sec)
```

5.

```
mysql> SELECT E.Fname, E.Lname
-> FROM EMPLOYEE E
-> WHERE NOT EXISTS (
->     SELECT W.Essn
->     FROM WORKS_ON W
->     WHERE W.Essn = E.Ssn
-> );
Empty set (0.00 sec)
```

6.

```
mysql> SELECT DISTINCT E.Fname, E.Lname, E.Address
-> FROM EMPLOYEE E
-> JOIN WORKS_ON W ON E.Ssn = W.Essn
-> JOIN PROJECT P ON W.Pno = P.Pnumber
-> WHERE P.Plocation = 'Houston'
-> AND E.Dno NOT IN (
->     SELECT D.Dnumber
->     FROM DEPT_LOCATIONS D
->     WHERE D.Dlocation = 'Houston'
-> );
+-----+-----+-----+
| Fname | Lname | Address |
+-----+-----+-----+
| Jennifer | Wallace | 291 Berry, Bellaire TX |
+-----+-----+-----+
1 row in set (0.00 sec)
```

7.

```
mysql> SELECT E.Lname
-> FROM EMPLOYEE E
-> JOIN DEPARTMENT D ON E.Ssn = D.Mgr_ssn
-> WHERE NOT EXISTS (
->     SELECT 1
->     FROM DEPENDENT Dep
->     WHERE Dep.Essn = E.Ssn
-> );
+-----+
| Lname |
+-----+
| Borg  |
+-----+
1 row in set (0.02 sec)
```