



20. Use a correlated subquery and EXISTS to find the employees who have no dependents.

21. First type the following lines to add two rows into the database:

```
INSERT INTO department VALUES
  ('TempDept', 6, 123456789,
   TO_DATE('18-Jul-2002', 'DD-MON-YYYY'));
INSERT INTO project VALUES
  ('TempProject', 50, 'Houston', 6);
```

Now use a UNION to list all project numbers of projects that involve Smith as either a worker or as a manager of the department that controls the project. HINT: Union two queries: one that retrieves projects that involve Smith as a worker; one that retrieves projects that involve Smith as manager of the department that controls the project.

22. Give everybody except Borg (he makes too much anyway ☺) a 10% pay raise. After you do this, select lname, salary to verify it worked properly. If not, reload the company script and try again.

23. Create a new table like the employee table that has only the workers who live in Houston. Create the table with the appropriate columns and data type and populate it using a single SQL command. After the table is created, do a

```
SELECT * FROM hou_emp
```

to verify your results.

24. Create a new table called emp\_dep. Its attributes consist of the first and last name of employees, and the names, sex and birthdates of the employees dependents. Create this table in a single SQL statement by selecting appropriate data from existing tables. After the table is created, do a

```
SELECT * FROM emp_dep
```

to verify your results.

### Query Results

```
18. 1001  Peel
     1002  Serres
```

```
19. 3006  1098.16  03-OCT-90  2008  1007
     3010  1309.95  06-OCT-90  2004  1002
     3011  9891.88  06-OCT-90  2006  1001
```

```
20. Alicia Zelaya
     Ramesh Narayan
     Joyce English
     Ahmad Jabbar
     James Borg
```

```
21. 1
```

2  
50

22.	Smith	33000
	Wong	44000
	Zelaya	27500
	Wallace	47300
	Narayan	41800
	English	27500
	Jabbar	27500
	Borg	55000

23. Your result should include only Smith, Wong, English, Jabbar and Borg. Otherwise it should look like the *employee* table. The value of the salary attribute will depend upon whether you have reloaded the tables after giving the 10% pay raise.

24.	Franklin	Wong	Alice	F	05-APR-86
	Franklin	Wong	Theodore	M	25-OCT-83
	Franklin	Wong	Joy	F	03-MAY-58
	Jennifer	Wallace	Abner	M	28-FEB-42
	John	Smith	Michael	M	04-JAN-88
	John	Smith	Alice	F	30-DEC-88
	John	Smith	Elizabeth	F	05-MAY-67

**Assessment: 14 marks**

**Query 18 to Query 24 will be assessed.**

If you saved the statement for each query in a separated file named “q###.sql”, you can use the following command to concatenate the 7 queries into one file:

```
cat q???.sql > Lab6.sql
```

This lab will be assessed in the labs in Week 7. When the lab demonstrator approaches you to mark this lab, show him the Lab6.sql file, and execute the queries by loading Lab6.sql. The lab demonstrator will check the correctness of each query.