

COSC 344
Lab for Week 4

ANSWERS

1. DESCRIBE employee;

2. SELECT *
FROM employee
WHERE rownum < 6;

3. SELECT dependent_name
FROM dependent
WHERE relationship = 'Daughter' OR
relationship = 'Spouse';

It is necessary to get the capitalisation and spelling of *Daughter* and *Spouse* exactly as in the table.

One alternative that is shorter follows. It assumes that only *Daughter*, *Son*, and *Spouse* are used in the *relationship* attribute. It would be unsafe unless the attribute had a constraint on it.

```
SELECT dependent_name
FROM dependent
WHERE relationship <> 'Son';
```

Using DISTINCT would probably not be appropriate because the two Alice's are different individuals. Thus the result could be misleading depending upon its intent.

4. SELECT pname
FROM project
WHERE plocation IS NULL;

5. SELECT fname, lname, dname
FROM employee, department
WHERE ssn=mgrssn;

6. SELECT DISTINCT fname, lname
FROM employee, works_on
WHERE ssn=essn AND
hours < 18;

DISTINCT is required here or else some names will be repeated.

7. SELECT fname, lname
FROM employee
WHERE lname LIKE 'W%';

```
8. SELECT sname
   FROM salespeople
   WHERE city IN ('San Jose', 'Barcelona');

9. SELECT cname, amt
   FROM customers c, orders o
   WHERE c.cnum = o.cnum AND
         amt BETWEEN 1500 AND 5000;

10. SELECT COUNT(*)
     FROM orders;

11. SELECT AVG(amt)
     FROM orders;
```