EXPERIMENT 7

Displaying data from multiple tables

```
SQL> select * from employee;

        ID NAME                 DOJ           SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      18500          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL> select * from dept;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         2 it         admin
         3 ece        workshop
         4 eee        workshop
         5 ft         aero

SQL> select e.name,e.did,d.dname from employee e inner join dept d on e.did=d.did;

NAME                        DID DNAME
-------------------- ---------- ----------
jack                          1 cse
kay                           3 ece
lisa                          5 ft
ray                           1 cse
alex                          2 it
```

```
SQL> select * from employee;

        ID NAME                 DOJ           SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      18500          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL> select distinct e.did, d.dname, d.dloc from employee e inner join dept d on d.did=e.did;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         3 ece        workshop
         5 ft         aero
         2 it         admin

SQL>
```

Departments with no employee:

```
SQL> select * from dept;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         2 it         admin
         3 ece        workshop
         4 eee        workshop
         5 ft         aero

SQL> select * from employee;

        ID NAME                 DOJ           SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      18500          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL> select d.dname from dept d where d.did not in (select e.did from employ
ee e inner join dept d on e.did=d.did);

DNAME
----------
eee

SQL>
```

Departments offering a higher salary:

```
SQL> select d.did,d.dname from employee e inner join dept d on d.did=e.did w
here salary>18000;

       DID DNAME
---------- ----------
         3 ece
         5 ft

SQL>
```

Employees who belong to admin block:

```
SQL> select * from employee;

        ID NAME                 DOJ          SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      18500          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL> select * from dept;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         2 it         admin
         3 ece        workshop
         4 eee        workshop
         5 ft         aero

SQL> select e.id,e.name,d.dname,d.dloc from employee e inner join dept d on e.did=d.did where d.dloc='admin';

        ID NAME                 DNAME      DLOC
---------- -------------------- ---------- ----------
       101 jack                 cse        admin
       104 ray                  cse        admin
       105 alex                 it         admin

SQL>
```

Employees who were hired after kay:

```
SQL> select * from employee;

        ID NAME                 DOJ          SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      18500          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL> select name from employee where doj>(select doj from employee where name='kay');

NAME
--------------------
ray
alex

SQL> select name,doj from employee where doj>(select doj from employee where
 name='kay');

NAME                 DOJ
-------------------- ---------
ray                  21-NOV-97
alex                 28-SEP-96
```