Practice 1

1. Initiate a SQL*Plus session using the user ID and password provided by the local administrator.

2. SQL*Plus commands access the database.
   True/False?

3. Will the SELECT statement execute successfully?
   True/False?

```
SQL> SELECT     ename, job, sal Salary
  2  FROM       emp;
```

4. Will the SELECT statement execute successfully?
   True/False?

```
SQL> SELECT     *
  2  FROM       salgrade;
```

5. There are four coding errors in this statement. Can you identify them?

```
SQL> SELECT     empno, ename
  2             salary x 12 ANNUAL SALARY
  3  FROM       emp;
```

6. Show the structure of the DEPT table. Select all data from the DEPT table.

```
Name          Null?    Type
------------ -------- ------------
DEPTNO       NOT NULL NUMBER(2)
DNAME                 VARCHAR2(14)
LOC                   VARCHAR2(13)
```

```
DEPTNO DNAME      LOC
------ ---------- -------------
    10 ACCOUNTING NEW YORK
    20 RESEARCH   DALLAS
    30 SALES      CHICAGO
    40 OPERATIONS BOSTON
```

7. Show the structure of the EMP table. Create a query to display the name, job, hire date, and employee number for each employee, with employee number appearing first. Save your SQL statement to a file named p1q7.sql.

```
Name        Null?    Type
---------- -------- -------------
EMPNO      NOT NULL NUMBER(4)
ENAME               VARCHAR2(10)
JOB                 VARCHAR2(9)
MGR                 NUMBER(4)
HIREDATE            DATE
SAL                 NUMBER(7,2)
COMM                NUMBER(7,2)
DEPTNO     NOT NULL NUMBER(2)
```

8. Run your query in the file p1q7.sql.

```
EMPNO ENAME   JOB          HIREDATE
----- ------- ---------- ---------
 7839 KING    PRESIDENT  17-NOV-81
 7698 BLAKE   MANAGER    01-MAY-81
 7782 CLARK   MANAGER    09-JUN-81
 7566 JONES   MANAGER    02-APR-81
 7654 MARTIN  SALESMAN   28-SEP-81
 7499 ALLEN   SALESMAN   20-FEB-81
 7844 TURNER  SALESMAN   08-SEP-81
 7900 JAMES   CLERK      03-DEC-81
 7521 WARD    SALESMAN   22-FEB-81
 7902 FORD    ANALYST    03-DEC-81
 7369 SMITH   CLERK      17-DEC-80
 7788 SCOTT   ANALYST    09-DEC-82
 7876 ADAMS   CLERK      12-JAN-83
 7934 MILLER  CLERK      23-JAN-82
14 rows selected.
```

9. Create a query to display unique jobs from the EMP table.

```
JOB
----------
ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN
```

10. Load p1q7.sql into the SQL buffer. Name the column headings Emp #, Employee, Job, and Hire Date, respectively. Rerun your query.

```
Emp # Employee  Job        Hire Date
----- --------- ---------- ---------------
 7839 KING      PRESIDENT  17-NOV-81
 7698 BLAKE     MANAGER    01-MAY-81
 7782 CLARK     MANAGER    09-JUN-81
 7566 JONES     MANAGER    02-APR-81
 7654 MARTIN    SALESMAN   28-SEP-81
 7499 ALLEN     SALESMAN   20-FEB-81
 7844 TURNER    SALESMAN   08-SEP-81
 7900 JAMES     CLERK      03-DEC-81
 7521 WARD      SALESMAN   22-FEB-81
 7902 FORD      ANALYST    03-DEC-81
 7369 SMITH     CLERK      17-DEC-80
 7788 SCOTT     ANALYST    09-DEC-82
 7876 ADAMS     CLERK      12-JAN-83
 7934 MILLER    CLERK      23-JAN-82
```

11. Display the name concatenated with the job, separated by a comma and space, and name the column Employee and Title.

```
Employee and Title
------------------
KING, PRESIDENT
BLAKE, MANAGER
CLARK, MANAGER
JONES, MANAGER
MARTIN, SALESMAN
ALLEN, SALESMAN
TURNER, SALESMAN
JAMES, CLERK
WARD, SALESMAN
FORD, ANALYST
SMITH, CLERK
SCOTT, ANALYST
ADAMS, CLERK
MILLER, CLERK
14 rows selected.
```

12. Create a query to display all the data from the EMP table. Separate each column by a comma. Name the column THE_OUTPUT.

```
THE_OUTPUT
-----------------------------------------------
7839,KING,PRESIDENT,,17-NOV-81,5000,,10
7698,BLAKE,MANAGER,7839,01-MAY-81,2850,,30
7782,CLARK,MANAGER,7839,09-JUN-81,2450,,10
7566,JONES,MANAGER,7839,02-APR-81,2975,,20
7654,MARTIN,SALESMAN,7698,28-SEP-81,1250,1400,30
7499,ALLEN,SALESMAN,7698,20-FEB-81,1600,300,30
7844,TURNER,SALESMAN,7698,08-SEP-81,1500,0,30
7900,JAMES,CLERK,7698,03-DEC-81,950,,30
7521,WARD,SALESMAN,7698,22-FEB-81,1250,500,30
7902,FORD,ANALYST,7566,03-DEC-81,3000,,20
7369,SMITH,CLERK,7902,17-DEC-80,800,,20
7788,SCOTT,ANALYST,7566,09-DEC-82,3000,,20
7876,ADAMS,CLERK,7788,12-JAN-83,1100,,20
7934,MILLER,CLERK,7782,23-JAN-82,1300,,10
14 rows selected.
```