

## Practice 1

1. Initiate a SQL\*Plus session using the user ID and password provided by the instructor
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 three coding errors in this statement. Can you identify them?

```
SQL> SELECT      empno, ename, salary x 12 ANNUAL SALARY
2
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

### Practice 1 (continued)

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 *plq7.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 *plq7.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.			



# Practice 1 (continued)

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

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

If you have time, complete the following exercises:

10. Load *plq7.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

14 rows selected.

### Practice 1 (continued)

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.
```

If you want extra challenge, complete the following exercises:

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.
```