

Practice 1:

Tables: EMP, DEPT

1. The following SELECT statement executes successfully:

```
SELECT ename, job, sal AS Sal
FROM emp;
```

True/False

2. The following SELECT statement executes successfully:

```
SELECT *
FROM Dept;
```

True/False

3. There are three coding errors in this statement. Can you identify them?

```
SELECT empno, ename
Sal x 12 ANNUAL SALARIES
FROM emp;
```

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

5. Show the structure of the EMP table. Create a query to display the EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM and DEPTNO for each employee, with employee name appearing first. Provide an alias STARTDATE for the HIREDATE column.

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)

ENAME	EMPNO	JOB	MGR	STARTDATE	SAL	COMM	DEPTNO
KING	7839	PRESIDENT		17-Nov-81	5000		10
BLAKE	7698	MANAGER	7839	1-May-81	2850		30
CLARK	7782	MANAGER	7839	9-Jun-81	2450		10
JONES	7566	MANAGER	7839	2-Apr-81	2975		20
MARTIN	7654	SALESMAN	7698	28-Sep-81	1250	1400	30
ALLEN	7499	SALESMAN	7698	20-Feb-81	1600	300	30
TURNER	7844	SALESMAN	7698	8-Sep-81	1500	0	30
JAMES	7900	CLERK	7698	3-Dec-81	950		30
WARD	7521	SALESMAN	7698	22-Feb-81	1250	500	30
FORD	7902	ANALYST	7566	3-Dec-81	3000		20
SMITH	7369	CLERK	7902	17-Dec-80	800		20
SCOTT	7788	ANALYST	7566	9-Dec-82	3000		20
ADAMS	7876	CLERK	7788	12-Jan-83	1100		20
MILLER	7934	CLERK	7782	23-Jan-82	1300		10

14 rows selected.

6. Create a query to display unique job from the EMP table.

JOB
ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN

7. In question no. 5 Name the column headings: EMP #, Employee, Job Title, and Hire Date, respectively.
Run your query again.

EMP #	Employee	Job Title	Hire Date
7839	KING	PRESIDENT	17-Nov-81
7698	BLAKE	MANAGER	1-May-81
7782	CLARK	MANAGER	9-Jun-81
7566	JONES	MANAGER	2-Apr-81
7654	MARTIN	SALESMAN	28-Sep-81
7499	ALLEN	SALESMAN	20-Feb-81
7844	TURNER	SALESMAN	8-Sep-81
7900	JAMES	CLERK	3-Dec-81
7521	WARD	SALESMAN	22-Feb-81
7902	FORD	ANALYST	3-Dec-81
7369	SMITH	CLERK	17-Dec-80
7788	SCOTT	ANALYST	9-Dec-82
7876	ADAMS	CLERK	12-Jan-83
7934	MILLER	CLERK	23-Jan-82

14 rows selected.

Tables :EMP , DEPT

1.Create a query to display the name and salary of employees earning more than 2,000. from EMP table

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
WARD	1250
FORD	3000
SCOTT	3000
ADAMS	1100
MILLER	1300

12 rows selected.

2. Create a query to display the employee name and department number for employee number 7902.

ENAME	DEPTNO
FORD	20

3. Display the name and salary for all employees whose salary is not in the range of 2,000 and 5,000.

ENAME	SAL
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950
WARD	1250
SMITH	800
ADAMS	1100
MILLER	1300

8 rows selected.

4. Display the employee name, job, and Hiredate of employees hired between February 20, 1981, and May 1, 1981. Order the query in ascending order by Hiredate.

ENAME	JOB	HIREDATE
ALLEN	SALESMAN	20-Feb-81
WARD	SALESMAN	22-Feb-81
JONES	MANAGER	2-Apr-81
BLAKE	MANAGER	1-May-81

5. Display the name and department number of all employees in departments 10 and 30 in alphabetical order by name.

ENAME	DEPTNO
KING	10
BLAKE	30
CLARK	10
MARTIN	30
ALLEN	30
TURNER	30
JAMES	30
WARD	30
MILLER	10

9 rows selected.

6. list the name and salary of employees who earn between 2,000 and 3,000, and are in department 10 or 30. Label the columns Employee and Monthly Salary, respectively

ENAME	SAL
BLAKE	2850
CLARK	2450

7. Display the name and hire date of every employee who was hired in 1981.

ENAME	HIREDATE
KING	17-Nov-81
BLAKE	1-May-81
CLARK	9-Jun-81
JONES	2-Apr-81
MARTIN	28-Sep-81
ALLEN	20-Feb-81
TURNER	8-Sep-81
JAMES	3-Dec-81
WARD	22-Feb-81
FORD	3-Dec-81

10 rows selected.

8. Display the name and job title of all employees who do not have a manager.

ENAME	JOB
KING	PRESIDENT

9. Display the name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.

ENAME	SAL	COMM
ALLEN	1600	300
TURNER	1500	0
MARTIN	1250	1400
WARD	1250	500

10. Display the names of all employees where the third letter of the name is an A.

ENAME
BLAKE
CLARK
ADAMS

11. Display the name of all employees who have an A and an E in their last name.

ENAME
BLAKE
ALLEN
JAMES

12. Display the name, job, and salary for all employees whose job is sales man or clerk and whose salary is not equal to 1,600, 8000, or 1,300.

ENAME	JOB	SAL
MARTIN	SALESMAN	1250
TURNER	SALESMAN	1500
JAMES	CLERK	950
WARD	SALESMAN	1250
SMITH	CLERK	800
ADAMS	CLERK	1100

6 rows selected.

13. Display the name, salary, and commission for all employees whose commission amount is 20% greater than salary

ENAME	SAL	COMM
MARTIN	1250	1400
WARD	1250	500