

**Basic Select**

***Hex 2551***

**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 | NALYST | 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.



**Practice II - Restricting and Sorting Data**

***Hex 2551***

**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 Aand an Ein 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 isnot 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% greaterthan salary

|  |  |  |
| --- | --- | --- |
| **ENAME** | **SAL** |  |
| MARTIN | 1250 | 1400 |
| WARD | 1250 | 500 |
|  |  |  |

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