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Section :

4B

LAB # 4

LAB TASKS:

1. Create a query to display the employee name and salary of employees earning more than \$1800.

```
SQL> select ename, sal from emp where sal>1800;
```

ENAME	SAL
JONES	2975
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
FORD	3000

```
6 rows selected.
```

2. Create a query to display the employee name and department number of for employee number 7900.

```
SQL> select ename, deptno from emp where empno = 7900;
```

ENAME	DEPTNO
JAMES	30

3. Display the employee name and salary for all employees whose salary is not in the range of \$500 and \$1200.

```
SQL> select ename, sal from emp where sal not in (500,1200);
```

ENAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500
ADAMS	1100

ENAME	SAL
JAMES	950
FORD	3000
MILLER	1300

14 rows selected.

4. Display the employee name, job, start date of employees hired between 20 February 1981 and May 1, 1982. Order the query in ascending order by start date.

```
SQL> SELECT ename, job, hiredate FROM emp WHERE hiredate BETWEEN TO_DATE('20-FEB-1981', 'DD-MON-YYYY') AND TO_DATE('01-MAY-1982', 'DD-MON-YYYY') ORDER BY hiredate ASC;
```

ENAME	JOB	HIREDATE
ALLEN	SALESMAN	20-FEB-81
WARD	SALESMAN	22-FEB-81
JONES	MANAGER	02-APR-81
BLAKE	MANAGER	01-MAY-81
CLARK	MANAGER	09-JUN-81
TURNER	SALESMAN	08-SEP-81
MARTIN	SALESMAN	28-SEP-81
KING	PRESIDENT	17-NOV-81
JAMES	CLERK	03-DEC-81
FORD	ANALYST	03-DEC-81
MILLER	CLERK	23-JAN-82

11 rows selected.

5. Display the employee name and department number of all employees in department 20 and 30 in alphabetical order by name.

```
SQL> SELECT ename, deptno FROM emp WHERE deptno IN (20, 30) ORDER BY ename;
```

ENAME	DEPTNO
ADAMS	20
ALLEN	30
BLAKE	30
FORD	20
JAMES	30
JONES	20
MARTIN	30
SCOTT	20
SMITH	20
TURNER	30
WARD	30

11 rows selected.

6. List the last name and salary of employees who earn between \$1000 and \$2000 and are in department 10 or 30. Label the columns Employee and Monthly Salary, respectively.

```
SQL> SELECT ename AS Employee, sal AS "Monthly Salary" FROM emp WHERE sal BETWEEN 1000 AND 2000 AND deptno IN (10, 30);
```

EMPLOYEE	Monthly Salary
ALLEN	1600
WARD	1250
MARTIN	1250
TURNER	1500
MILLER	1300

7. Display the employee name and hire date of every employee who was hired in 1982.

```
SQL> SELECT ename, hiredate FROM emp WHERE TO_CHAR(hiredate, 'YYYY') = '1982';
```

ENAME	HIREDATE
MILLER	23-JAN-82

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

```
SQL> SELECT ename, job FROM emp WHERE mgr IS NULL;
```

ENAME	JOB
KING	PRESIDENT

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

```
SQL> SELECT ename, sal, comm FROM emp WHERE comm IS NOT NULL ORDER BY sal DESC, comm DESC;
```

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

10. Display all employee names of all employees where the third letter of the name is 'a'.

```
SQL> SELECT ename FROM emp WHERE ename LIKE '__a%';

no rows selected
```

11. Display the employee name of all employees who have an 'a' and 'e' in their name.

```
SQL> SELECT ename FROM emp WHERE ename LIKE '%a%' AND ename LIKE '%e%';

no rows selected
```

12. Display the employee name, job and salary for employees whose job title is entered by the user and whose salary is not equal to \$1000, \$1200, \$1800. Also sort the data according to the column name entered by the user.

```
SQL> SELECT ename, job, sal FROM emp WHERE job = '&job_title' AND sal NOT IN (1000, 1200, 1800) ORDER BY &sort_column;
Enter value for job_title: CLERK
Enter value for sort_column: sal
old 1: SELECT ename, job, sal FROM emp WHERE job = '&job_title' AND sal NOT IN (1000, 1200, 1800) ORDER BY &sort_column
new 1: SELECT ename, job, sal FROM emp WHERE job = 'CLERK' AND sal NOT IN (1000, 1200, 1800) ORDER BY sal
```

ENAME	JOB	SAL
SMITH	CLERK	800
JAMES	CLERK	950
ADAMS	CLERK	1100
MILLER	CLERK	1300

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

```
SQL> SELECT ename, sal, comm FROM emp WHERE comm = 0.2 * sal;

no rows selected
```

14. Display the employee name, salary of all employees whose condition of salary is entered by user. Sort the data in descending order according to the salary.

```
SQL> SELECT ename, sal FROM emp WHERE sal &salary_condition ORDER BY sal DESC;
Enter value for salary_condition: > 2000
old 1: SELECT ename, sal FROM emp WHERE sal &salary_condition ORDER BY sal DESC
new 1: SELECT ename, sal FROM emp WHERE sal > 2000 ORDER BY sal DESC
```

ENAME	SAL
KING	5000
FORD	3000
SCOTT	3000
JONES	2975
BLAKE	2850
CLARK	2450

6 rows selected.