G NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE

LAB CYCLE - 1
ASSIGNMENT - 1

1. **Display the details of employee names, salary, commission, hiredate of employees.**

    SQL> select ename ,sal,comm,hiredate from emp;

    ```
    ENAME     SAL    COMM   HIREDATE
    --------- ------- ------- ---------
    KING      5000           17-NOV-81
    BLAKE     2850           01-MAY-81
    CLARK     2450           09-JUN-81
    JONES     2975           02-APR-81
    SCOTT     3000           19-APR-87
    FORD      3000           03-DEC-81
    SMITH      800           17-DEC-80
    ALLEN     1600    300    20-FEB-81
    WARD      1250    500    22-FEB-81
    MARTIN    1250    1400   28-SEP-81
    TURNER    1500     0     08-SEP-81
    ADAMS     1100           23-MAY-87
    JAMES      950           03-DEC-81
    MILLER    1300           23-JAN-82
    ```

    14 rows selected.

2. **Display the details of employees who are working in the department whose number is 20.**

    SQL> select * from emp where deptno=20;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7788	SCOTT	ANALYST	7566	19-APR-87	3000		20
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20

3. **Display the details of employees whose salary is between 1000 and 3000.**

SQL> select * from emp where sal between 1000 and 2000;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

6 rows selected.

4. **Display the details of employees whose salary is less than 2000 or more than 3000.**

SQL> select * from emp where sal<2000 or sal>3000;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

9 rows selected.

5. Find all the employees who don't have a Manager.

SQL> select * from emp where mgr is NULL;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT		17-NOV-81	5000		10

6. Display the employee names and yearly salary with the header "Annual Salary".

SQL> select ename ,sal*12 as Annual_Salary from emp;

ENAME	ANNUAL_SALARY
KING	60000
BLAKE	34200
CLARK	29400
JONES	35700
SCOTT	36000
FORD	36000
SMITH	9600
ALLEN	19200
WARD	15000
MARTIN	15000
TURNER	18000
ADAMS	13200
JAMES	11400
MILLER	15600

14 rows selected.

7. **Display the list of employees whose names start with 'S' and contain exactly 5 characters.**

   SQL> select ename from emp where ename like 'S____';

   ENAME

    SCOTT
    SMITH

8. **Display the names of all employees, who have 'TH' or 'LL' in their names.**

   SQL> select ename from emp where ename like '%TH%' or ename like '%LL%';

   ENAME

    SMITH
    ALLEN
    MILLER

9. **Display the list of employees who are working in dept 20 or getting salary more than 3000.**

   SQL> select ename from emp where deptno=20 and sal>3000;

   no rows selected

10. **Find all clerks who earn between 1000 and 2000.**

    SQL> select * from emp where job='CLERK' and sal between 1000 and 2000;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7876	ADAMS	CLERK	7788	23-MAY-87	1100		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

11. Find all the employees who have comm.

SQL> select * from emp where comm is not NULL;

EMPNO	ENAME	COMM
7499	ALLEN	300
7521	WARD	500
7654	MARTIN	1400
7844	TURNER	0

12. List department no and name in alphabetical order of department name.

SQL> select dname ,deptno from dept order by dname;

DNAME	DNO
ACCOUNTING	10
OPERATIONS	40
RESEARCH	20
SALES	30

4 rows selected.

13. List the details of the employees in department 10 and 20 in alphabetical order of name.

SQL> select ename,deptno from emp where deptno=10 or deptno=20 order by ename;

ENAME	DEPTNO

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  ADAMS          20

  CLARK          10

  FORD           20

  JONES          20

  KING           10

  MILLER         10

  SCOTT          20

  SMITH          20

8 rows selected.
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14. Display name and total remuneration of all employees.

SQL> select ename,sal+nvl(comm,0) as total_remuneration from emp;

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ENAME      TOTAL_REMUNERATION

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  KING            5000

  BLAKE           2850

  CLARK           2450

  JONES           2975

  SCOTT           3000

  FORD            3000

  SMITH            800

  ALLEN           1900

  WARD            1750
```

MARTIN	2650
TURNER	1500
ADAMS	1100
JAMES	950
MILLER	1300

14 rows selected.

15. **Display all the employees who were hired during 1983.**

SQL> select ename,deptno from emp where to_char(hiredate,'YYYY')='1983';

no rows selected

16. **Display name, annual salary and commission of all sales persons whose monthly salary is greater than their commission. The output should be in the descending order of salary. If two or more employees have the same salary, sort by ename, within the highest salary order.**

SQL> select ename,sal*12 as Annual_salaray,comm from emp where job='SALESMAN' and sal>comm

order by sal desc ,ename;

ENAME	ANNUAL_SALARAY	COMM
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ALLEN	19200	300
TURNER	18000	0
WARD	15000	500

17. **Increase the salary for all employees by 15%.**

SQL> select ename,sal,sal+sal*(0.15) "Incremented15%" from emp;

ENAME	SAL	Incremented15%
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KING	5000	5750
BLAKE	2850	3277.5

CLARK	2450	2817.5
JONES	2975	3421.25
SCOTT	3000	3450
FORD	3000	3450
SMITH	800	920
ALLEN	1600	1840
WARD	1250	1437.5
MARTIN	1250	1437.5
TURNER	1500	1725
ADAMS	1100	1265
JAMES	950	1092.5
MILLER	1300	1495

14 rows selected.

18. **Display the list of employees in the descending order of job and salaries.**

SQL> select * from emp order by job desc,sal desc;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7839	KING	PRESIDENT		17-NOV-81	5000		10
7566	JONES	MANAGER	7839	02-APR-81	2975		20

7698	BLAKE	MANAGER	7839	01-MAY-81	2850	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	10
7934	MILLER	CLERK	7782	23-JAN-82	1300	10
7876	ADAMS	CLERK	7788	23-MAY-87	1100	20
7900	JAMES	CLERK	7698	03-DEC-81	950	30
7369	SMITH	CLERK	7902	17-DEC-80	800	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	20

14 rows selected.

1. **Display the Employee data as displayed below.**

 Who, what and when

  Allen has held the position of salesman in dept 30 since 20-feb-81

  Ward has held the position of salesman in dept 30 since 22-feb-81

   SQL> select ename||' has held position of salesman dept '||deptno||'since'||to_char(hiredate,'DD-Mon-YY') AS "who,what and when" from emp;

   who,what and when

KING has held position of salesman in dept 10 since 17-Nov-81

BLAKE has held position of salesman in dept 30 since 01-May-81

CLARK has held position of salesman in dept 10 since 09-Jun-81

JONES has held position of salesman in dept 20 since 02-Apr-81

SCOTT has held position of salesman in dept 20 since 19-Apr-87

FORD has held position of salesman in dept 20 since 03-Dec-81

SMITH has held position of salesman in dept 20 since 17-Dec-80

ALLEN has held position of salesman in dept 30 since 20-Feb-81

WARD has held position of salesman in dept 30 since 22-Feb-81

MARTIN has held position of salesman in dept 30 since 28-Sep-81

TURNER has held position of salesman in dept 30 since 08-Sep-81

ADAMS has held position of salesman in dept 20 since 23-May-87

JAMES has held position of salesman in dept 30 since 03-Dec-81

MILLER has held position of salesman in dept 10 since 23-Jan-82

14 rows selected.

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ASSIGNMENT - 2

1. **Find out how many managers are there without listing them.**

   SQL> select count(MGR) as manger_count from emp;

    MANGER_COUNT

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