**DBMS Assignment 2**

**NAME: Arnob Bhakta**

**YEAR: 2nd**

**DEPT: Information Technology**

**SESSION: 2024-2027**

**ROLL NO: 002311001049**

**QUERIES**

1. Display the Name, manager Id, and hire date of all employees who are either clerk or works in dept 20. the date should be in the following format: DATE\_HIRED Seventeenth December, 1980 Second April, 1981

**SELECT ENAME AS "EMPLOYEE NAME", MGR AS "MANAGER NO",**

**INITCAP(TO\_CHAR(HIREDATE,'FMDDSPTH MONTH,YYYY'))**

**AS "DATE\_HIRED"**

**FROM EMP WHERE JOB='CLERK' OR DEPTNO=20**



2. List the employee name and old salary and new increased salary by 25% and expressed as a whole number

**SELECT ENAME AS "EMPLOYEE NAME", SAL AS "OLD SAL",**

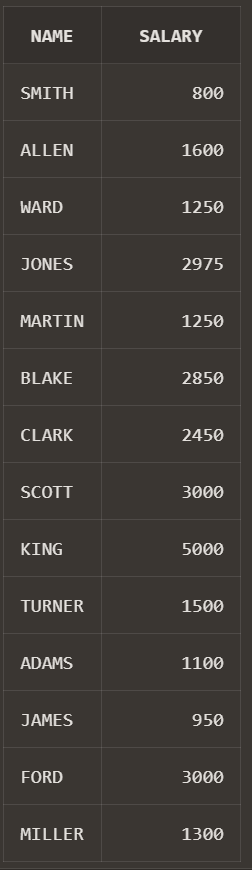
**ROUND(SAL\*0.25 + SAL,0) AS "NEW SAL"**

**FROM EMP;**



3. List the employee name and salary where name is displayed as left justified and salary with right justified.

**SELECT RPAD(ENAME,LENGTH(ENAME)) AS "NAME" , LPAD(SAL,10) FROM EMP ;**

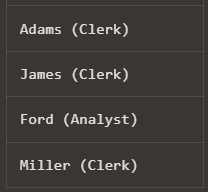


4. Produce the output as follows(for all employees) ROLE OF THE EMPLOYEE Name1 () Name2 () ........ Note: Only first character of Name and job will be in uppercase.

**SELECT INITCAP(ENAME||' ('||JOB||')') AS "ROLE OF THE EMPLOYEE"**

**FROM EMP;**

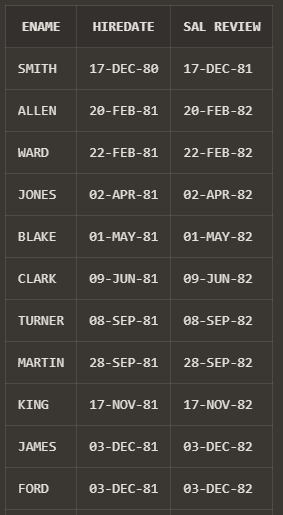


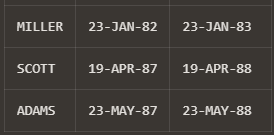


5. Give the details of an employees with job is clerk (enter the job value clerk as input)

6. Display each employee name with hiredate and salary review date. Assume that date is one year after hiredate. Order the output in ascending review date order.

**SELECT ENAME, HIREDATE, ADD\_MONTHS(HIREDATE, 12) AS "SAL REVIEW" FROM EMP ORDER BY ADD\_MONTHS(HIREDATE, 12) ASC;**





7. Find the employees(s) who earn the highest salary in each job type sort in descending salary order(Use IN operator and subqueries)

**SELECT ENAME, JOB,SAL FROM EMP WHERE SAL IN (**

**SELECT MAX (SAL) FROM EMP GROUP BY JOB**

**) ORDER BY SAL DESC;**

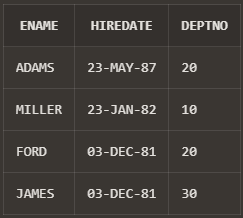


8. Find the most recently hired employee in each department (give number only).

**SELECT ENAME, HIREDATE, DEPTNO FROM EMP WHERE HIREDATE IN (**

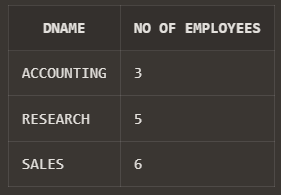
**SELECT MAX(HIREDATE) FROM EMP GROUP BY DEPTNO**

**) ORDER BY HIREDATE DESC;**



9. Show the name of the department and no of employees who works in that department. Sort in department number.

**SELECT DNAME,COUNT(\*) AS "NO OF EMPLOYEES" FROM DEPT,EMP WHERE EMP.DEPTNO=DEPT.DEPTNO GROUP BY DNAME ORDER BY COUNT(\*);**



10. Display the Id, name, salary and the salary grade for any employee who earns the maximum salary for their department. Sort in department number.

**SELECT**

**EMPNO,**

**ENAME,**

**SAL,**

**SALGRADE.GRADE AS "SALARY GRADE"**

**FROM**

**(**

**SELECT**

**EMP.\*,**

**ROW\_NUMBER() OVER(PARTITION BY DEPTNO ORDER BY SAL DESC) AS RNK**

**FROM**

**EMP**

**),**

**SALGRADE**

**WHERE**

**RNK =1**

**AND (SAL >=SALGRADE.LOSAL**

**AND SAL <= HISAL)**

**ORDER BY DEPTNO;**



11. In which year did most people join the company? Display the year and number of  employees

select yr as "MOST HIRED YEAR" , COUNT as "NO OF EMPLOYEE"

**SELECT**

**YR AS "MOST HIRED YEAR",**

**COUNT AS "NO OF EMPLOYEE"**

**FROM**

**(**

**SELECT**

**TO\_CHAR(HIREDATE, 'yyyy') AS YR,**

**COUNT (\*) AS "COUNT",**

**ROW\_NUMBER() OVER(ORDER BY COUNT(\*) DESC) AS RNK**

**FROM**

**EMP**

**GROUP BY**

**TO\_CHAR(HIREDATE, 'yyyy')**

**)**

**WHERE**

**RNK = 1;**



12. Show the every alternate row in employee table.

**select \* from**

**(**

**select emp.\* ,ROW\_NUMBER() over(order by empno) as rnk**

**from emp**

**) where mod(rnk,2)=0;**



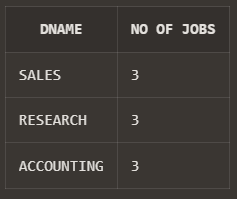
13. Display the total salary of all employees. Total salary = salary + commission.

**SELECT SUM(SAL + NVL(COMM,0)) AS "TOTAL SALARY" FROM EMP ;**



14. Display the department name and available jobs in that department.

**SELECT DNAME, COUNT(DISTINCT JOB) FROM EMP, DEPT WHERE EMP.DEPTNO = DEPT.DEPTNO GROUP BY DNAME ORDER BY COUNT(JOB) DESC;**



15. Display all the available departments and the employee(s) works under it.

**SELECT DNAME,ENAME**

**FROM EMP**

**NATURAL JOIN DEPT**

**ORDER BY DNAME;**

