# Assignment 2 ATRIJ ROY, JU IT UG2 A3, ROLL:- 002311001086

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, MGR AS MANAGER\_ID, TO\_CHAR(HIREDATE,INITCAP('FMDDSPTH MONTH, YYYY')) AS DATE\_HIRED FROM EMP WHERE JOB='CLERK' OR DEPTNO=20;

SELECT ENAME, MGR AS MANAGER\_ID, TO\_CHAR(HIREDATE,INITCAP('FMDDSPTH MONTH, YYYY')) AS DATE\_HIRED FROM EMP WHERE JOB='CLERK' OR DEPTNO=20

ENAME	MANAGER ID	DATE_HIRED
LIVINE	WINTER CENTER	DATE_TIMED
SMITH	7902	seventeenth December, 1980
JONES	7839	second April, 1981
SCOTT	7566	nineteenth April, 1987
ADAMS	7788	twenty-third May, 1987
JAMES	7698	third December, 1981
FORD	7566	third December, 1981
MILLER	7782	twenty-third January, 1982

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

#### SELECT ENAME, SAL AS OLDSALARY, ROUND(1.25\*SAL) AS NEWSALARY FROM EMP;

SELECT ENAME, SAL AS OLDSALARY, ROUND(1.25\*SAL) AS NEWSALARY FROM EMP

ENAME	OLDSALARY	NEWSALARY	
SMITH	800	1000	
ALLEN	1600	2000	
WARD	1250	1563	
JONES	2975	3719	
MARTIN	1250	1563	
BLAKE	2850	3563	
CLARK	2450	3063	
SCOTT	3000	3750	
KING	5000	6250	
TURNER	1500	1875	
ADAMS	1100	1375	
JAMES	950	1188	
FORD	3000	3750	
MILLER	1300	1625	

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

#### SELECT RPAD(ENAME,20,' ') AS NAME, LPAD(SAL,20,' ') AS SAL FROM EMP;

SELECT RPAD(ENAME, 20,' ') AS NAME, LPAD(SAL, 20,' ') AS SAL FROM EMP

NAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
JONES	2975
MARTIN	1250
BLAKE	2850
CLARK	2450
SCOTT	3000
KING	5000
TURNER	1500
ADAMS	1100
JAMES	950
FORD	3000
MILLER	1300

4. Produce the output as follows(for all employees)

#### **ROLE OF THE EMPLOYEE**

Name1 (<Job of Name 1>)

Name2 (<Job of Name 2>)

.....

Note: Only first character of Name and job will be in uppercase.

## SELECT CONCAT(CONCAT(INITCAP(ENAME),'('),CONCAT(INITCAP(JOB),')')) AS ROLE\_OF\_THE\_EMPLOYEE FROM EMP

SELECT CONCAT(CONCAT(INITCAP(ENAME),'('),CONCAT(INITCAP(JOB),')')) AS ROLE\_OF\_THE\_EMPLOYEE FROM EMP

ROLE\_OF\_THE\_EMPLOYEE

Smith(Clerk)

Allen(Salesman)

Ward(Salesman)

Jones(Manager)

Martin(Salesman)

Blake(Manager)

Clark(Manager)

Scott(Analyst)

King(President)

Turner(Salesman)

Adams(Clerk)

James(Clerk)

Ford(Analyst)

Miller(Clerk)

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5. Give the details of an employees with job is clerk (enter the job value clerk as input). SELECT \* FROM EMP WHERE JOB='CLERK';

SELECT \* FROM EMP WHERE JOB='CLERK'

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO	PHONENO	ADDRESS
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
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	-	-

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4 rows selected.

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, HIREDATE+365 AS REVIEW\_DATE FROM EMP ORDER BY REVIEW\_DATE ASC;

SELECT ENAME, HIREDATE, HIREDATE+365 AS REVIEW\_DATE FROM EMP ORDER BY REVIEW\_DATE ASC

ENAME	HIREDATE	REVIEW_DATE
SMITH	17-DEC-80	17-DEC-81
ALLEN	20-FEB-81	20-FEB-82
WARD	22-FEB-81	22-FEB-82
JONES	02-APR-81	02-APR-82
BLAKE	01-MAY-81	01-MAY-82
CLARK	09-JUN-81	09-JUN-82
TURNER	08-SEP-81	08-SEP-82
MARTIN	28-SEP-81	28-SEP-82
KING	17-NOV-81	17-NOV-82
JAMES	03-DEC-81	03-DEC-82
FORD	03-DEC-81	03-DEC-82
MILLER	23-JAN-82	23-JAN-83
SCOTT	19-APR-87	18-APR-88
ADAMS	23-MAY-87	22-MAY-88

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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 \* FROM EMP WHERE SAL IN (SELECT MAX(SAL) FROM EMP GROUP BY JOB) ORDER BY SAL DESC;

SELECT \* FROM EMP WHERE SAL IN (SELECT MAX(SAL) FROM EMP GROUP BY JOB) ORDER BY SAL DESC

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO	PHONENO	ADDRESS
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-

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6 rows selected.

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

### SELECT EMPNO FROM EMP E WHERE HIREDATE IN(SELECT MAX(HIREDATE) FROM EMP WHERE E.DEPTNO=DEPTNO GROUP BY DEPTNO);

SELECT EMPNO FROM EMP E WHERE HIREDATE IN(SELECT MAX(HIREDATE) FROM EMP WHERE E.DEPTNO=DEPTNO GROUP BY DEPTNO)



- 9. Show the name of the department and no of employees who works in that department. Sort in department number.
- SELECT D.DNAME, COUNT(E.EMPNO) FROM EMP E, DEPT D WHERE E.DEPTNO = D.DEPTNO GROUP BY D.DNAME, D.DEPTNO ORDER BY D.DEPTNO;

SELECT D.DNAME, COUNT(E.EMPNO) FROM EMP E, DEPT D WHERE E.DEPTNO = D.DEPTNO GROUP BY D.DNAME, D.DEPTNO ORDER BY D.DEPTNO

DNAME	COUNT(E.EMPNO)
ACCOUNTING	3
RESEARCH	5
SALES	6

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3 rows selected.

- 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 E.EMPNO, E.ENAME, E.SAL, S.GRADE FROM EMP E, SALGRADE S WHERE E.SAL IN(SELECT MAX(SAL) FROM EMP GROUP BY DEPTNO) AND E.SAL BETWEEN S.LOSAL AND S.HISAL;

SELECT E.EMPNO, E.ENAME, E.SAL, S.GRADE FROM EMP E, SALGRADE S WHERE E.SAL IN(SELECT MAX(SAL) FROM EMP GROUP BY DEPTNO) AND E.SAL BETWEEN S.LOSAL AND S.HISAL

EMPNO	ENAME	SAL	GRADE
7698	BLAKE	2850	4
7839	KING	5000	5
7788	SCOTT	3000	4
7902	FORD	3000	4

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- 11. In which year did most people join the company? Display the year and number of employees.
- SELECT TO\_CHAR(HIREDATE, 'YYYY') AS YEAR, COUNT(EMPNO) AS NO\_OF\_EMPLOYEES FROM EMP GROUP BY TO\_CHAR(HIREDATE, 'YYYY') HAVING COUNT(EMPNO)=(SELECT MAX(COUNT(EMPNO)) FROM EMP GROUP BY TO\_CHAR(HIREDATE, 'YYYY'));

T TO_CHAR(HIREDATE, 'Y	т то_	ε, 'ΥΥΥ
AR NO_OF_EMPLOYEES	AR	OYEES
81 10	81	

12. Show the every alternate row in employee table.

SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO, PHONENO, ADDRESS FROM(SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO, PHONENO, ADDRESS, ROWNUM RN FROM EMP) WHERE MOD(RN,2)=1;

SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO, PHONENO, ADDRESS FROM (SELECT EMPNO, ENAME, JOB, MGI

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	сомм	DEPTNO	PHONENO	ADDRESS
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	-	-
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	-	-
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10	-	-
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-



7 rows selected.

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

SELECT EMPNO,ENAME, SAL+NVL(COMM,0) AS TOTAL\_SALARY FROM EMP;

EMPNO	ENAME	TOTAL_SALARY	
7369	SMITH	800	
7499	ALLEN	1900	
7521	WARD	1750	
7566	JONES	2975	
7654	MARTIN	2650	
7698	BLAKE	2850	
7782	CLARK	2450	
7788	SCOTT	3000	
7839	KING	5000	
7844	TURNER	1500	
7876	ADAMS	1100	
7900	JAMES	950	
7902	FORD	3000	
7934	MILLER	1300	

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

SELECT DISTINCT D.DNAME AS DEPARTMENT, E.JOB AS
AVAILABLE\_JOBS FROM EMP E, DEPT D WHERE D.DEPTNO =
E.DEPTNO ORDER BY DNAME;

DEPARTMENT	AVAILABLE_JOBS
ACCOUNTING	CLERK
ACCOUNTING	MANAGER
ACCOUNTING	PRESIDENT
RESEARCH	ANALYST
RESEARCH	CLERK
RESEARCH	MANAGER
SALES	CLERK
SALES	MANAGER
SALES	SALESMAN

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9 rows selected.

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

SELECT D.DNAME, LISTAGG(E.ENAME,',') WITHIN GROUP (ORDER BY E.ENAME) AS EMPLOYEES FROM (SELECT DISTINCT ENAME, DEPTNO FROM EMP) E JOIN DEPT D ON D.DEPTNO= E.DEPTNO GROUP BY D.DNAME ORDER BY D.DNAME;

DNAME	EMPLOYEES
ACCOUNTING	CLARK, KING, MILLER
RESEARCH	ADAMS, FORD, JONES, SCOTT, SMITH
SALES	ALLEN, BLAKE, JAMES, MARTIN, TURNER, WARD

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