

MANAS PRATIM BISWAS

IT-A1-025 DBMS ASSIGNMENT 2

-
1. SELECT ENAME, MGR, TO_CHAR(HIREDATE, 'DDSPTH MONTH YYYY')
AS DATE_HIRED FROM EMP
WHERE JOB = 'CLERK' OR DEPTNO = 20;

	Standard	Standard	Standard
1	ENAME	MGR	DATE_HIRED
2	SMITH	7902	SEVENTEENTH DECEMBER 1980
3	JONES	7839	SECOND APRIL 1981
4	SCOTT	7566	NINETEENTH APRIL 1987
5	ADAMS	7788	TWENTY-THIRD MAY 1987
6	JAMES	7698	THIRD DECEMBER 1981
7	FORD	7566	THIRD DECEMBER 1981
8	MILLER	7782	TWENTY-THIRD JANUARY 1982

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2. SELECT ENAME, SAL AS OLD_SALARY, ROUND(1.25*SAL) AS NEW_SALARY FROM EMP;

	Standard	Standard	Standard
1	ENAME	OLD_SALARY	NEW_SALARY
2	SMITH	800	1000
3	ALLEN	1600	2000
4	WARD	1250	1563
5	JONES	2975	3719
6	MARTIN	1250	1563
7	BLAKE	2850	3563
8	CLARK	2450	3063
9	SCOTT	3000	3750
10	KING	5000	6250
11	TURNER	1500	1875
12	ADAMS	1100	1375
13	JAMES	950	1188
14	FORD	3000	3750
15	MILLER	1300	1625

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3. SELECT RPAD(ENAME,30), LPAD(SAL,30) FROM EMP;

	Standard	Standard
1	RPAD(ENAME, 30)	LPAD(SAL, 30)
2	SMITH	800
3	ALLEN	1600
4	WARD	1250
5	JONES	2975
6	MARTIN	1250
7	BLAKE	2850
8	CLARK	2450
9	SCOTT	3000
10	KING	5000
11	TURNER	1500
12	ADAMS	1100
13	JAMES	950
14	FORD	3000
15	MILLER	1300

4. SELECT CONCAT(CONCAT(INITCAP(ENAME), '('), CONCAT(INITCAP(JOB), ')')) AS
"ROLE OF THE EMPLOYEE" FROM EMP;

	Standard
1	ROLE OF THE EMPLOYEE
2	Smith(Clerk)
3	Allen(Salesman)
4	Ward(Salesman)
5	Jones(Manager)
6	Martin(Salesman)
7	Blake(Manager)
8	Clark(Manager)
9	Scott(Analyst)
10	King(President)
11	Turner(Salesman)
12	Adams(Clerk)
13	James(Clerk)
14	Ford(Analyst)
15	Miller(Clerk)

5. SELECT * FROM EMP WHERE JOB = 'CLERK';

	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
2	7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
3	7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
4	7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-
5	7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-

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6. SELECT ENAME, HIREDATE AS HIRE_DATE,
      ADD_MONTHS(HIREDATE,12)
      AS SALARY_REVIEW_DATE
FROM EMP ORDER BY SALARY_REVIEW_DATE ASC;

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ALTERNATE APPROACH :

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SELECT ENAME, HIREDATE AS HIRE_DATE,
      (HIREDATE+365) AS SALARY_REVIEW_DATE
FROM EMP ORDER BY SALARY_REVIEW_DATE ASC;

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	Standard	Standard	Standard
1	ENAME	HIRE_DATE	SALARY_REVIEW_DATE
2	SMITH	17-DEC-80	17-DEC-81
3	ALLEN	20-FEB-81	20-FEB-82
4	WARD	22-FEB-81	22-FEB-82
5	JONES	02-APR-81	02-APR-82
6	BLAKE	01-MAY-81	01-MAY-82
7	CLARK	09-JUN-81	09-JUN-82
8	TURNER	08-SEP-81	08-SEP-82
9	MARTIN	28-SEP-81	28-SEP-82
10	KING	17-NOV-81	17-NOV-82
11	JAMES	03-DEC-81	03-DEC-82
12	FORD	03-DEC-81	03-DEC-82
13	MILLER	23-JAN-82	23-JAN-83
14	SCOTT	19-APR-87	18-APR-88
15	ADAMS	23-MAY-87	22-MAY-88

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

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	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
2	7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
3	7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
4	7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-
5	7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
6	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
7	7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-

```

8. SELECT * FROM EMP E
    WHERE HIREDATE IN(SELECT MAX(HIREDATE)
    FROM EMP WHERE E.DEPTNO = DEPTNO)
ORDER BY DEPTNO;

```

	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
2	7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-
3	7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
4	7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-

```

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

```

	Standard	Standard
1	DNAME	COUNT(E.EMPNO)
2	ACCOUNTING	3
3	RESEARCH	5
4	SALES	6

```

10.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
ORDER BY E.DEPTNO;

```

	Standard	Standard	Standard	Standard
1	EMPNO	ENAME	SAL	GRADE
2	7839	KING	5000	5
3	7902	FORD	3000	4
4	7788	SCOTT	3000	4
5	7698	BLAKE	2850	4

```

11.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'));

```

	Standard	Standard
1	YEAR	NO_OF_EMPLOYEES
2	1981	10

```

12.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;

```

	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
2	7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	-	-
4	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	-	-
5	7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10	-	-
6	7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
7	7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
8	7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-

```

13.SELECT EMPNO,ENAME, SAL+NVL(COMM,0) AS TOTAL_SALARY FROM EMP;

```

	Standard	Standard	Standard
1	EMPNO	ENAME	TOTAL_SALARY
2	7369	SMITH	800
3	7499	ALLEN	1900
4	7521	WARD	1750
5	7566	JONES	2975
6	7654	MARTIN	2650
7	7698	BLAKE	2850
8	7782	CLARK	2450
9	7788	SCOTT	3000
10	7839	KING	5000
11	7844	TURNER	1500
12	7876	ADAMS	1100
13	7900	JAMES	950
14	7902	FORD	3000
15	7934	MILLER	1300

```

14.SELECT DISTINCT D.DNAME AS DEPARTMENT,
      E.JOB AS AVAILABLE_JOBS FROM EMP E,
      DEPT D WHERE D.DEPTNO = E.DEPTNO
ORDER BY DNAME;

```

	Standard	Standard
1	DEPARTMENT	AVAILABLE_JOBS
2	ACCOUNTING	CLERK
3	ACCOUNTING	MANAGER
4	ACCOUNTING	PRESIDENT
5	RESEARCH	ANALYST
6	RESEARCH	CLERK
7	RESEARCH	MANAGER
8	SALES	CLERK
9	SALES	MANAGER
10	SALES	SALESMAN

```

15.SELECT DISTINCT D.DNAME AS DEPARTMENT,
      E.* FROM EMP E, DEPT D
WHERE D.DEPTNO = E.DEPTNO;

```

	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	DEPARTMENT	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
2	ACCOUNTING	7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-
3	SALES	7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-
4	RESEARCH	7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
5	SALES	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	-	-
6	ACCOUNTING	7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10	-	-
7	ACCOUNTING	7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
8	RESEARCH	7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
9	RESEARCH	7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
10	RESEARCH	7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
11	RESEARCH	7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-
12	SALES	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
13	SALES	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	-	-
14	SALES	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	-	-
15	SALES	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30	-	-
