

## Assignment 2

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

The screenshot shows the Live SQL web application interface. On the left is a sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains an SQL query:

```
1 SELECT ENAME,MGR,TO_CHAR(HIREDATE,'DOSPth MONTH, YYYY') AS HIRE_DATE
2 FROM EMP
3 WHERE JOB='CLERK' OR DEPTNO=20 ;
```

Below the query, the results are displayed in a table with 7 rows. The columns are ENAME, MGR, and HIRE\_DATE. The data is as follows:

ENAME	MGR	HIRE_DATE
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

Below the table, there is a 'Download CSV' button and the text '7 rows selected.' At the bottom of the interface, a footer contains the text: '2024 Oracle - Live SQL 24.1.3, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym' and 'Built with ❤️ using Oracle APEX - Privacy - Terms of Use'.

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

Live SQL

SQL Worksheet

```
1 SELECT ENAME,SAL AS OLD_SAL,ROUND(1.25*SAL) AS NEW_SAL
2 FROM EMP ;
```

ENAME	OLD_SAL	NEW_SAL
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

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

Live SQL

SQL Worksheet

```
1 SELECT RPAD(ENAME,30) AS EMP_NAME ,LPAD(SAL,30) AS SALARY
2 FROM EMP ;
```

EMP_NAME	SALARY
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

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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.

Live SQL

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1 SELECT CONCAT(CONCAT(INITCAP(ENAME), '<'), CONCAT(INITCAP(JOB), '>')) AS "ROLE OF THE EMPLOYEE"  
2 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).

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1 SELECT \*  
2 FROM EMP  
3 WHERE JOB='CLERK';

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	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.

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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.

Live SQL

SQL Worksheet

```

1 SELECT ENAME AS NAME, HIREDATE,
2 ADD_MONTHS(HIREDATE, 12) AS "SALARY REVIEW DATE"
3 FROM EMP
4 ORDER BY "SALARY REVIEW DATE" ASC ;

```

NAME	HIREDATE	SALARY 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
MARTIN	28-SEP-81	28-SEP-82
BLAKE	01-MAY-81	01-MAY-82
CLARK	09-JUN-81	09-JUN-82
SCOTT	19-APR-87	19-APR-88
KING	17-NOV-81	17-NOV-82
TURNER	08-SEP-81	08-SEP-82
ADAMS	23-MAY-87	23-MAY-88
JAMES	03-DEC-81	03-DEC-82
FORD	03-DEC-81	03-DEC-82
MILLER	23-JAN-82	23-JAN-83

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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)

Live SQL

SQL Worksheet

```

1 SELECT *
2 FROM EMP
3 WHERE SAL IN(SELECT MAX(SAL) FROM EMP
4 | GROUP BY JOB)
5 ORDER BY SAL DESC;

```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	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.

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

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SQL Worksheet

```

1 SELECT *
2 FROM EMP E
3 WHERE HIREDATE IN(SELECT MAX(HIREDATE) FROM EMP
4 WHERE E.DEPTNO=DEPTNO)
5 ORDER BY HIREDATE DESC;

```

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

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3 rows selected.

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

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SQL Worksheet

```

1 SELECT D.DNAME, COUNT(E.EMPNO) AS "NO OF EMPLOYEE"
2 FROM EMP E, DEPT D WHERE
3 E.DEPTNO = D.DEPTNO
4 GROUP BY D.DEPTNO, D.DNAME
5 ORDER BY D.DEPTNO;

```

DNAME	NO OF EMPLOYEE
ACCOUNTING	3
RESEARCH	5
SALES	6

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3 rows selected.

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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.

Live SQL

SQL Worksheet

```

1 SELECT E.EMPNO, E.ENAME, E.SAL, S.GRADE
2 FROM EMP E, SALGRADE S
3 WHERE E.SAL BETWEEN S.LOSAL AND S.HISAL AND
4 E.SAL IN (SELECT MAX(SAL) FROM EMP GROUP BY DEPTNO)
5 ORDER BY E.DEPTNO;

```

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

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

Live SQL

SQL Worksheet

```

1 SELECT TO_CHAR(HIREDATE, 'YYYY') AS "YEAR", COUNT(EMPNO) AS NO_OF_EMPS
2 FROM EMP
3 GROUP BY TO_CHAR(HIREDATE, 'YYYY')
4 HAVING COUNT(EMPNO) = (SELECT MAX(COUNT(EMPNO)) FROM EMP GROUP BY TO_CHAR(HIREDATE, 'YYYY')) ;
5
6

```

YEAR	NO_OF_EMPS
1981	10

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12. Show the every alternate row in employee table.

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SQL Worksheet

```

1 SELECT EMPNO,ENAME, JOB,MGR, HIREDATE, SAL, COMM,DEPTNO, PHONENO, ADDRESS
2 FROM (SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO, PHONENO, ADDRESS, ROWNUM RN
3 FROM EMP)
4 WHERE MOD(RN,2)=0;

```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30	-	-
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	-	-
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-

Download CSV

7 rows selected.

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

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SQL Worksheet

```

1 SELECT EMPNO, ENAME, (SAL+NVL(COMM,0)) AS TOTAL_SALARY
2 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
7982	FORD	3000
7934	MILLER	1300

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

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1 SELECT D.DNAME AS "NAME OF DEPT",E.JOB AS "AVAILABLE JOB"

2 FROM DEPT D,EMP E

3 WHERE D.DEPTNO=E.DEPTNO

4 GROUP BY D.DNAME,E.JOB

5 ORDER BY D.DNAME;

NAME OF DEPT	AVAILABLE JOB
ACCOUNTING	CLERK
ACCOUNTING	MANAGER
ACCOUNTING	PRESIDENT
RESEARCH	ANALYST
RESEARCH	CLERK
RESEARCH	MANAGER
SALES	CLERK
SALES	MANAGER
SALES	SALESMAN

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

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1 SELECT DISTINCT D.DNAME AS "DEPT NAME",E.\*

2 FROM EMP E,DEPT D

3 WHERE E.DEPTNO=D.DEPTNO;

4

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

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