

Fatima Jinnah Women University

Department of Software Engineering

LAB 5

Name: Raifa Khalid

Reg. no: 2020-BSE-024

Section: A

Semester: Fourth

Course: Data Base (LAB)

TASKS

1. Write a query to display the current date.

```
SQL> select sysdate from dual;
SYSDATE
------
19-APR-22
```

2. For each employee, display the employee ID number, employee name, salary and salary increased by 15% and expressed as whole number. Label the column New Salary.

```
SQL> select ename, round(sal+(sal*15/100)) as NEWSALARY from emp;
ENAME
            NEWSALARY
SMITH
                  920
ALLEN
                 1840
                 1438
WARD
JONES
                 3421
MARTIN
                 1438
BLAKE
                 3278
CLARK
                 2818
SCOTT
                 3450
KING
                 5750
TURNER
                 1725
ADAMS
                 1265
ENAME
            NEWSALARY
JAMES
                 1093
FORD
                 3450
                 1495
MILLER
14 rows selected.
```

3. Modify the above query to add a column that subtracts the old salary from the new salary. Label the Column Increase.

```
SQL> select ename, round(sal+(sal*15/100)) as NEWSALARY , round(sal+ (sal*15/100))-sal as COLOUMINCREASE from emp;
             NEWSALARY COLOUMINCREASE
ALLEN
WARD
                   1840
                                     188
JONES
MARTIN
                   3421
                                     188
                   1438
CLARK
                   2818
KING
TURNER
                   5750
ADAMS
ENAME
             NEWSALARY COLOUMINCREASE
                  3450
1495
                                     450
195
ILLER
14 rows selected.
```

4. Write a query that displays the employee's names with the first letter capitalize and all other letters lowercase and length of the names, for all employees whose name start with J, A or M. Give each column an appropriate label. Sort the results by employees' name.

5. For each employee, display the employee name and calculate the number of months between today and a day the employee was hired. Label the column MONTHS_WORKED. Order your results by the number of months employed. Round the number of results up to closest whole number.

6. Write a query that produces the following for each employee:

Employee name, earns salary monthly but wants 3 times salary. Label the column Dream Salaries.

//Salary should be in this format \$99,999.00

```
SQL> select ename ||'earns'||sal|| 'monthly but wants to earn '|| to_char(sal*3,'$99,999.00') as dream_salary from emp;

DREAM_SALARY

SMITHearns800monthly but wants to earn $2,400.00
ALLENearns1250monthly but wants to earn $4,800.00
WARDearns1250monthly but wants to earn $3,750.00
JONESearns2975monthly but wants to earn $8,925.00
MARTINearns1250monthly but wants to earn $3,750.00
BLAKEearns2850monthly but wants to earn $3,750.00
CLARKearns2450monthly but wants to earn $7,350.00
SCOTTearns3000monthly but wants to earn $9,000.00
KINGearns5000monthly but wants to earn $15,000.00
ADAMSearns1100monthly but wants to earn $4,500.00
ADAMSearns950monthly but wants to earn $3,300.00

DREAM_SALARY

JAMESearns950monthly but wants to earn $2,850.00
MILLERearns1300monthly but wants to earn $9,000.00
MILLERearns1300monthly but wants to earn $3,900.00

14 rows selected.
```

7. Create a query to display the employee name and salary of all employees. Format the salary to be 15 characters long, left-padded with \$. Label the column SALARY.

```
SQL> select ename,LPAD(sal,15,'$') as salary from emp;
ENAME
           SALARY
SMITH
           $$$$$$$$$$$$$800
ALLEN
           $$$$$$$$$$$$1600
WARD
           $$$$$$$$$$$$1250
JONES
           $$$$$$$$$$$$2975
MARTIN
           $$$$$$$$$$$$1250
BLAKE
           $$$$$$$$$$$2850
CLARK
           $$$$$$$$$$$2450
           $$$$$$$$$$$3000
SCOTT
KING
           $$$$$$$$$$$5000
TURNER
           $$$$$$$$$$$$$1500
ADAMS
           $$$$$$$$$$$$1100
ENAME
           SALARY
JAMES
          $$$$$$$$$$$$$950
           $$$$$$$$$$$3000
FORD
MILLER
           $$$$$$$$$$$$1300
14 rows selected.
```

8. Display each employee name, hiredate and salary review date, which is the first Monday after six months of service. Label the column REVIEW. Format the dates to appear similar to "Monday, the Thirty-first of July, 2000".

```
SQL> select ename, hiredate, to_char(next_day(add_months(hiredate,6), 'MONDAY'), 'DAY, "the" ddspth "of" MONTH,YYY') as review from emp;

ENAME HIREDATE REVIEW

SMITH 17-DEC-80 MONDAY , the twenty-second of JUNE ,081
ALLEN 20-FEB-81 MONDAY , the twenty-fourth of AUGUST ,981
MARD 22-FEB-81 MONDAY , the tiffth of OCTOBER ,981
ONNES 02-APR-81 MONDAY , the tiffth of OCTOBER ,981
MARTIN 28-SEP-81 MONDAY , the twenty-ninth of MARCH ,982
BLAKE 01-MAY-81 MONDAY , the second of NOVEMBER ,981
CLARK 09-JUN-81 MONDAY , the twenty-sixth of OCTOBER ,987
KING 17-NOV-81 MONDAY , the twenty-fourth of MAY ,982
TURNIER 08-SEP-81 MONDAY , the twenty-fourth of MAY ,982
ADAMS 23-MAY-87 MONDAY , the thirtieth of NOVEMBER ,987

ENAME HIREDATE REVIEW

JAMES 03-DEC-81 MONDAY , the seventh of JUNE ,982
FORD 03-DEC-81 MONDAY , the seventh of JUNE ,982
MILLER 23-JAN-82 MONDAY , the twenty-sixth of JULY ,982

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```

9. Display the employee name, hiredate, and day of the week on which the employee started. Label the column DAY. Order the results by the day started with Monday.

```
SQL> select ename, hiredate, to_char(hiredate, 'DAY') as DAY from emp order by to_char(hiredate -1, 'D');
ENAME
              HIREDATE DAY
MARTIN
              28-SEP-81 MONDAY
              09-JUN-81 TUESDAY
08-SEP-81 TUESDAY
TURNER
             17-DEC-80 WEDNESDAY
03-DEC-81 THURSDAY
SMITH
JAMES
             02-APR-81 THURSDAY
03-DEC-81 THURSDAY
20-FEB-81 FRIDAY
01-MAY-81 FRIDAY
JONES
ALLEN
BLAKE
               23-MAY-87 SATURDAY
ENAME
              HIREDATE DAY
MILLER
              23-JAN-82 SATURDAY
              22-FEB-81 SUNDAY
19-APR-87 SUNDAY
SCOTT
14 rows selected.
```

10. Create a query that displays the employees' names and indicates the amounts of their salaries through asterisks. Each asterisk signifies a hundred dollars. Sort the data in descending order of salary.

Label the column EMPLOYEE_AND_THEIR_SALARIES.