Practial - 4

## **Aim: To study Single\_row function.**

Emp_	fname	lname	job	mgr	Hire_date	Emp_sa	Emp_c	Dept_n
no						l	omm	0
7369	Smith	jhonson	clerk	7902	17-sep-1980	800	NULL	20
7499	allen	smith	salesman	7698	20-feb-1981	1600	NULL	30
7521	ward	darton	Salesman	7698	22-feb-1981	1250	500	30
7566	jones	clarion	Manager	7839	2-apr-1981	2975	NULL	20
7654	martin	mike	salesman	7698	28-sep-1981	1250	1400	30
7698	blake	vanes	manager	7839	1-may-1981	2850	NULL	30
7782	clark	rhodes	manager	7839	9-jun-1981	2450	NULL	10
7788	scott	lincon	analyst	7566	9-dec-1982	3000	NULL	20
7839	king	kong	president	NULL	17-nov-1981	5000	NULL	10
7844	turner	giant	salesman	7698	8-sep-1981	1500	0	30
7876	adams	garry	clerk	7788	12-jan-1983	1100	NULL	20
7900	james	bond	clerk	7698	3-dec-1981	950	NULL	30
7902	ford	taylor	analyst	7566	3-dec-1981	3000	NULL	20
7934	miller	wilkinson	clerk	7782	23-jan-1982	1300	NULL	10

CREATE TABLE EMPLOYEE\_09(emp\_no NUMBER(6),Fname VARCHAR2(30),lname VARCHAR2(30),job VARCHAR2(30),mgr NUMBER(8),hire\_date DATE,emp\_sal NUMBER(8,2),emp\_comm NUMBER(6,1),dept\_no NUMBER(3));

INSERT INTO EMPLOYEE\_09 VALUES(7369,'Smith','jhonson','clerk',7902,'17-sep-1980',800,NULL,20);
INSERT INTO EMPLOYEE\_09 VALUES(7499,'allen','smith','salesman',7698,'20-feb-1981',1600,NULL,30);
INSERT INTO EMPLOYEE\_09 VALUES(7521,'ward','darton','salesman',7698,'22-feb-1981',1250,500,30);
INSERT INTO EMPLOYEE\_09 VALUES(7566,'jones','clarion','manager',7839,'2-apr-1981',2975,NULL,20);
INSERT INTO EMPLOYEE\_09 VALUES(7654,'martin','mike','salesman',7698,'28-sep-1981',1250,1400,30);
INSERT INTO EMPLOYEE\_09 VALUES(7698,'blake','vanes','manager',7839,'1-may-1981',2850,NULL,30);
INSERT INTO EMPLOYEE\_09 VALUES(7782,'clark','rhodes','manager',7839,'9-jun-1981',2450,NULL,10);
INSERT INTO EMPLOYEE\_09 VALUES(7788,'scott','lincon','analyst',7566,'9-dec-1982',3000,NULL,20);
INSERT INTO EMPLOYEE\_09 VALUES(7839,'king','kong','president',NULL,'17-nov-1981',5000,NULL,10);
INSERT INTO EMPLOYEE\_09 VALUES(7844,'turner','giant','salesman',7698,'8-sep-1981',1500,0,30);

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INSERT INTO EMPLOYEE\_09 VALUES(7876,'adams','garry','clerk',7788,'12-jan-1983',1100,NULL,20);
INSERT INTO EMPLOYEE\_09 VALUES(7900,'james','bond','clerk',7698,'3-dec-1981',950,NULL,30);
INSERT INTO EMPLOYEE\_09 VALUES(7902,'ford','taylor','analyst',7566,'3-dec-1981',3000,NULL,20);
INSERT INTO EMPLOYEE\_09 VALUES(7934,'miller','wilkinson','clerk',7782,'23-jan-1982',1300,NULL,10);

```
Table dropped.
SQL> @ D:\DBMS\EMPLOYEE_09.sql
Table created.
1 row created.
 row created.
1 row created.
 row created.
 row created.
 row created.
 row created.
1 row created.
 row created.
 row created.
1 row created.
1 row created.
1 row created.
 row created.
SQL>
```

## **Queries:**

1. Write a query to display the current date. Label the column Date.

```
SQL> select sysdate "Date" from dual;
Date
-----23-AUG-21
SQL> _
```

2. For each employee, display the employee number, job, salary, and salary increase by 15% and expressed as a whole number. Label the column New Salary.

```
SQL> SELECT EMP_NO_EMP_SAL_ROUND<br/>
YEE_09;<br/>
EMP_NO EMP_SAL NEW SALARY<br/>
7369 800 920<br/>
7499 1600 1840<br/>
7521 1250 1438<br/>
7566 2975 3421<br/>
7654 1250 1438<br/>
7698 2850 3278<br/>
7782 2450 2818<br/>
7788 3000 3450<br/>
7839 5000 5750<br/>
7844 1500 1725<br/>
7876 1100 1265<br/>
7900 950 1093<br/>
7902 3000 3450<br/>
7934 1300 1495<br/>
14 rows selected.
```

3. Modify your query no 4.(2) to add a column that subtracts the old salary from the new salary. Label the column Increase.

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

5. Write a query that produces the following for each employee: <employee last name> earns <salary>monthly

6. Display the name, hire date, number of months employed and day of the week on which the employee has started. Order the results by the day of the week starting with Monday.

SQL> SELECT F E,'DAY'> FROM	_NAME,HIRE_DATE,MONTHS_BET EMPLOYEE_09 ORDER BY TO_C	WEEN(SYSDATE,HIRE_DATE), TO_GHAR(HIRE_DAT HAR(HIRE_DATE,'D');
F_NAME	HIRE_DATE MONTHS_BET	WEEN(SYSDATE,HIRE_DATE)
TO_CHAR(HIRE_I	DATE,'DAY'>	
Ward SUNDAY	22-FEB-81	486.537741
Martin MONDAY	28-SEP-81	479.344193
Clark TUESDAY	09-JUN-81	482.957096
Turner TUESDAY	08-SEP-81	479.989354
King TUESDAY	17-N0U-81	477.699032
Adams WEDNESDAY	12-JAN-83	463.860322
Smith WEDNESDAY	17-SEP-80	491.699032
Jones THURSDAY	02-APR-81	485.182902
Scott THURSDAY	09-DEC-82	464.957096
James THURSDAY	03-DEC-81	477.150644
Blake FRI DAY	01-MAY-81	484.215161
Allen FRIDAY	20-FEB-81	486.602257
Miller SATURDAY	23-JAN-82	475.505483
Ford SATURDAY	03-JAN-81	488.150644
14 rows select	ted.	

7. Display the hiredate of emp in a format that appears as Seventh of June 1994 12:00:00 AM.

```
SQL> SELECT TO_CHAR(HIRE_DATE,'DDSPTH "OF" MONTH YYYY HH:MM:SS AM') FROM EMPLOYE E_09;

TO_CHAR(HIRE_DATE,'DDSPTH"OF"MONTHYYYYHH:MM:SSAM')

SEUENTEENTH OF SEPTEMBER 1980 12:09:00 AM
TWENTIETH OF FEBRUARY 1981 12:02:00 AM
TWENTY-SECOND OF FEBRUARY 1981 12:02:00 AM
SECOND OF APRIL 1981 12:04:00 AM
TWENTY-EIGHTH OF SEPTEMBER 1981 12:09:00 AM
PIRST OF MAY 1981 12:05:00 AM
NINTH OF JUNE 1981 12:06:00 AM
NINTH OF DECEMBER 1981 12:11:00 AM
SEUENTEENTH OF NOUEMBER 1981 12:11:00 AM
EIGHTH OF SEPTEMBER 1981 12:01:00 AM
TWELFTH OF JANUARY 1983 12:01:00 AM
THIRD OF DECEMBER 1981 12:12:00 AM
THIRD OF JANUARY 1981 12:01:00 AM
THIRD OF JANUARY 1981 12:01:00 AM
TWENTY-THIRD OF JANUARY 1982 12:01:00 AM
```

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8. Write a query to calculate the annual compensation of all employees (sal+comm.).

```
SQL> SELECT (EMP_SAL + EMP_COMM> "ANNUAL COMPENSATION" FROM EMPLOYEE_09;

ANNUAL COMPENSATION

1750

2650

14 rows selected.
```