

DBMS LAB - 3

Academic year: 2020-2021 Semester: Long Sem

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Lab Exercise -3

1. Display the substring of the Address (starting from 5th position to 11 th position) of all Employees.

```
SELECT ADDRESS, SUBSTR(ADDRESS, 5, 11)

FROM EMPLOYEE;
```

```
SQL> SELECT ADDRESS, SUBSTR(ADDRESS, 5, 11)
     FROM EMPLOYEE;
                                             ADDRESS
ADDRESS
                                             SUBSTR(ADDRESS,5,11)
SUBSTR(ADDRESS,5,11)
                                             291 Berry, Bellaire, TX
11 S 59 E, Salt Lake City, UT
                                             Berry, Bell
59 E, Salt
                                             731 Fondren, Houston, TX
35 S 18 E, Salt Lake City, UT
                                             Fondren, Ho
18 E, Salt
                                             975 Fire Oak, Humble, TX
638 Voss, Houston, TX
                                             Fire Oak, H
Voss, Houst
```

2. Display the Mgrstartdate on adding three months to it.



FROM DEPT;

3. Display the age of all the employees rounded to two digits.

```
SELECT BIRTHDAY, ROUND((MONTHS_BETWEEN(SYSDATE, BIRTHDAY)/12), 2)

FROM EMPLOYEE;
```

```
SQL> SELECT BIRTHDAY, ROUND((MONTHS_BETWEEN(SYSDATE, BIRTHDAY)/12), 2)
          FROM EMPLOYEE;
BIRTHDAY ROUND((MONTHS_BETWEEN(SYSDATE,BIRTHDAY)/12),2)
09-JUN-60
                                                     62.04
07-FEB-78
                                                     44.38
08-DEC-45
                                                    -23.45
20-JUN-31
                                                     -8.99
09-JAN-55
                                                     67.46
15-SEP-52
                                                     69.78
31-JUL-62
                                                      59.9
10-NOV-27
                                                     -5.38
19-JUL-58
                                                     63.93
29-MAR-59
                                                     63.24
```

4. Find the last day and next day of the month in which each manager has joined.

```
SELECT MANAGESTARTDATE, LAST_DAY(MANAGESTARTDATE), MANAGESTARTDATE+1
FROM DEPT;
```

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5. Print a substring from the string 'Harini'.

```
SELECT SUBSTR('HARINI',1,4)

FROM DUAL;
```

```
SQL> SELECT SUBSTR('HARINI',1,4)
2 FROM DUAL;
SUBS
----
HARI
```

6. Replace the string 'ni' from 'Harini' by 'sh'.

```
SELECT REPLACE('HARINI', 'NI', 'SH'
)
FROM DUAL;
```

```
SQL> SELECT REPLACE('HARINI', 'NI', 'SH'
2 )
3 FROM DUAL;

REPLAC
-----
HARISH
```

7. Print the length of all the department names.

```
SELECT DEPT_NAME, LENGTH(DEPT_NAME)

FROM DEPT;
```

8. Print the system date in the format 25 th May 2007.

```
SELECT TO_CHAR (SYSDATE, 'DDth fmmonth yyyy')
```

```
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```

from dual;

9. Display the date after 10 months from the current date.

```
SELECT ADD_MONTHS(SYSDATE, 10)
FROM DUAL;
```

```
SQL> SELECT ADD_MONTHS(SYSDATE, 10)
2 FROM DUAL;

ADD_MONTH
-----
25-APR-23
```

10. Display the next occurrence of Friday in this month.

```
SELECT NEXT_DAY(SYSDATE, 'Friday')

FROM DUAL;
```

```
SQL> SELECT NEXT_DAY(SYSDATE, 'Friday')
2 FROM DUAL;

NEXT_DAY(
-----
01-JUL-22
```

11. How many different departments are there in the 'employee' table

```
select count(distinct dept_no) from Employee;
```

12. For each department display the minimum and maximum employee salaries

```
select min(salary), max(salary) from employee;
```



13. Print the average annual salary.

14. Count the number of employees over 30 age.

```
select count(SSN_NUMBER) from employee where (abs(extract(year from
sysdate)-(extract(year from Birthday)))>30);
```

15. Print the Department name and average salary of each department.

```
select d.DEPT_NAME, avg(e.SALARY) from DEPT d, EMPLOYEE e;

SELECT DEPT_NAME, AVG(salary)
   FROM dept
        JOIN employee USING (DEPT_NO)

GROUP BY DEPT_NO;
```

16. Create a view to display the employee details who is working in the IT department.

```
CREATE VIEW employee_details

AS

SELECT *

FROM Employee

where DEPT_NO=(select DEPT_NO from dept where DEPT_NAME='ITdepartment');
```



```
SQL> CREATE VIEW employee_details
2 AS
3 SELECT *
4 FROM Employee
5 where DEPT_NO=(select DEPT_NO from dept where DEPT_NAME='ITdepartment');

View created.
```

```
SQL> select * from employee_details;
```

17. Create a logical table to store employee details who are getting salaries more than 10000.

```
select *FROM employee where salary>10000;
```

18. Create a table to store the employees details based on the department no

```
select FIRST_NAME, LAST_NAME, SSN_NUMBER from employee GROUP BY DEPT_NO;

CREATE TABLE employee_details_table

AS (SELECT DEPT_NO, FIRST_NAME

    FROM EMPLOYEE

GROUP BY DEPT_NO, FIRST_NAME);
```

```
SQL> CREATE TABLE employee_details_table
2    AS (SELECT DEPT_NO, FIRST_NAME
3         FROM EMPLOYEE
4         GROUP BY DEPT_NO, FIRST_NAME);
Table created.
```

```
SQL> select * from employee_details_table ;

DEPT_NO FIRST_NAME

5 Johny
Doug
5 Joyce
5 Frankin
4 Jennifer
4 Ahmad
1 James
5 Ramesh
4 Alicia
```

19. List the names of all managers who have no dependents.





```
SELECT FIRST_NAME, LAST_NAME

FROM EMPLOYEE E, DEPARTMENT D

WHERE E.SSN_NUMBER=D.MANAGERSSN

AND NOT EXISTS (SELECT * FROM DEPENDENT WHERE MANAGERSSN=ESSN);
```

20. List the employee's names and the department names if they happen to manage a department.

```
select distinct e.FIRST_NAME as Employee, m.mgr as reports_to, e.FIRST_NAME as
Manager
from EMPLOYEE e, DEPARTMENT d
inner join Employee m on e.mgr = m.SSN_NUMBER;
```