

KIET GROUP OF INSTITUTIONS
DEPARTMENT OF COMPUTER APPLICATIONS

LAB ASSIGNMENT 7

DBMS Lab (KCA – 252)

Assignments on Date Functions

Prassan Varshney

Roll_Number - 36

1. Implement the date functions of SQL.
2. Create the following table and perform the following queries.

Field	Datatype	Remark
EmpId	Varchar2(3)	Primary key, Should start with 'E'
Ename	Varchar2(25)	Not Null
DOB	Date	Not Null
DOJ	Date	Not Null, Should later than DOB
Salary	Number(7)	Not Null, Should take only +ve value
Adhar	Number(12)	Unique, should always take 12 digit number

- 2.1 List the employee details who joined on a particular date.

```
SELECT * FROM Employees  
WHERE HireDate = TO_DATE('2021-01-15', 'YYYY-MM-DD');
```

- 2.2 Write a query to list the employees with Hiredate in the format like February 22, 1991.

```
SELECT EmpID, EmpName, TO_CHAR(HireDate, 'Month DD, YYYY') AS HireDate  
FROM Employees;
```

- 2.3 Write a query to list the employees who joined before 2018.

```
SELECT * FROM Employees  
WHERE HireDate < TO_DATE('2018-01-01', 'YYYY-MM-DD');
```

- 2.4 Write a query to list the employees who joined in the month January.

```
SELECT * FROM Employees  
WHERE TO_CHAR(HireDate, 'MM') = '01';
```

- 2.5 Write a query to list the employees who have joined in the year 2019.

```
SELECT * FROM Employees  
WHERE TO_CHAR(HireDate, 'YYYY') = '2019';
```

2.6 Write a query to list the employee details according to the date of joining (recent joining should come first).

```
SELECT * FROM Employees
ORDER BY HireDate DESC;
```

2.7 Write a query to list the employee details along with their experience.

```
SELECT EmpID, EmpName, HireDate, (SYSDATE - HireDate) / 365 AS
Experience_Years
FROM Employees;
```

2.8 Write a query to list those employees whose salary is an odd value.

```
SELECT * FROM Employees
WHERE MOD(Salary, 2) <> 0;
```

2.9 Write a query to list the employees of id E001 or E10, joined in the year 1991.

```
SELECT * FROM Employees
WHERE (EmpID = 'E001' OR EmpID = 'E10')
AND TO_CHAR(HireDate, 'YYYY') = '1991';
```

2.10 Write a query in SQL to list the employees who joined in any year except the month February.

```
SELECT * FROM Employees
WHERE TO_CHAR(HireDate, 'MM') <> '02';
```

2.11 Write a query to display happy birthday to those employees who are eligible to get this message.

```
SELECT EmpID, EmpName, 'Happy Birthday' AS Message
FROM Employees
WHERE TO_CHAR(DOB, 'MM-DD') = TO_CHAR(SYSDATE, 'MM-DD');
```

2.12 Display the employee id, Name and Date of birth of all the employees(**Note** - **if the dob is 3 – jan-1985 then it should be displayed as 3rd January 1985**)

```
SELECT EmpID, EmpName,
TO_CHAR(DOB, 'DDth " " Month YYYY') AS DOB_Format
FROM Employees;
```