PRACTICAL 6

6	Perform queries using Date function:- sysdate,dateadd(),datediff(),day,month,year,extract(),to_char(),to_date().

==

```
CREATE TABLE employees1400 (
   emp_id    NUMBER,
   emp_name  VARCHAR(20),
   emp_city  VARCHAR(20),
   join_date DATE
);

INSERT INTO employees1400 VALUES (1, 'krishna singh', ' Delhi   ',   TO_DATE('15-JAN-
2020', 'DD-MON-YYYY'));
INSERT INTO employees1400 VALUES (2, 'RAHUL',        'Mumbai',     TO_DATE('20-MAR-
2021', 'DD-MON-YYYY'));
INSERT INTO employees1400 VALUES (3, 'aMIT',        ' Pune',     TO_DATE('10-JUL-2019',
'DD-MON-YYYY'));
INSERT INTO employees1400 VALUES (4, 'Sneha',        'Kolkata ',   TO_DATE('25-NOV-
2022', 'DD-MON-YYYY'));
INSERT INTO employees1400 VALUES (5, '   rohit  ',    ' Chennai  ',  TO_DATE('05-MAY-2020',
'DD-MON-YYYY'));

COMMIT;

SELECT emp_name, SYSDATE AS today
FROM employees1400;

SELECT emp_name, join_date, ADD_MONTHS(join_date, 6) AS after_6_months
FROM employees1400;

SELECT emp_name, join_date, join_date + 10 AS after_10_days
FROM employees1400;

SELECT emp_name, join_date, SYSDATE - join_date AS days_since_join
FROM employees1400;

SELECT emp_name, join_date, TO_CHAR(join_date, 'DD') AS day_part
FROM employees1400;

SELECT emp_name, join_date, TO_CHAR(join_date, 'MM') AS month_part
FROM employees1400;
```

PRACTICAL 6

```sql
SELECT emp_name, join_date, TO_CHAR(join_date, 'YYYY') AS year_part
FROM employees1400;

SELECT emp_name,
    EXTRACT(DAY FROM join_date)   AS day_num,
    EXTRACT(MONTH FROM join_date) AS month_num,
    EXTRACT(YEAR FROM join_date)  AS year_num
FROM employees1400;


SELECT emp_name, TO_CHAR(join_date, 'DD-Mon-YYYY') AS formatted_date
FROM employees1400;

INSERT INTO employees1400 (emp_id, emp_name, emp_city, join_date)
VALUES (6, 'Manish', 'Jaipur', TO_DATE('15-AUG-2024', 'DD-MON-YYYY'));

COMMIT;
```
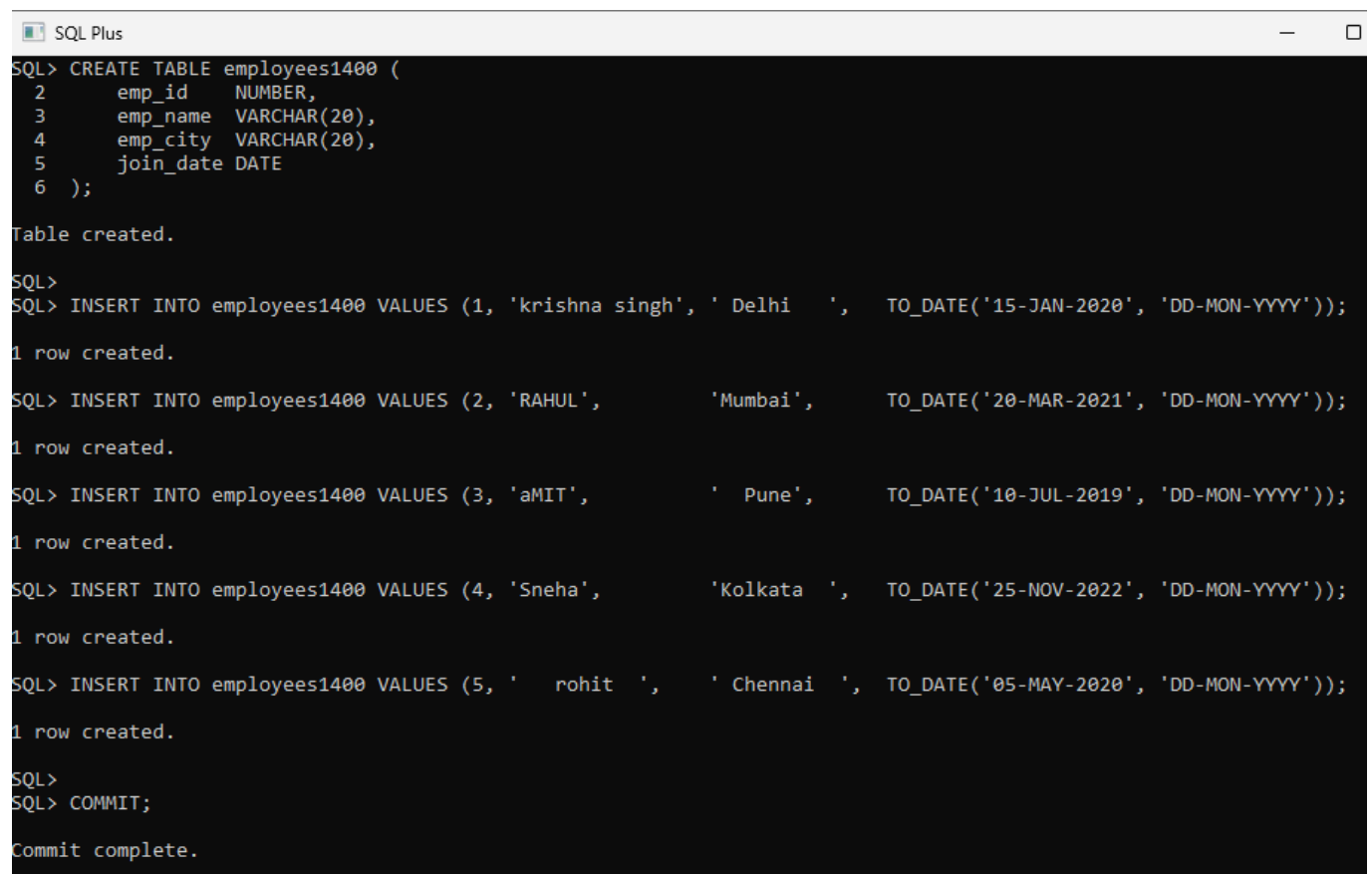
OUTPUT:

PRACTICAL 6

```
SQL Plus
```

```
SQL> SELECT emp_name, SYSDATE AS today
  2  FROM employees1400;

EMP_NAME             TODAY
-------------------- ---------
krishna singh        14-AUG-25
RAHUL                14-AUG-25
aMIT                 14-AUG-25
Sneha                14-AUG-25
   rohit             14-AUG-25

SQL>
SQL> SELECT emp_name, join_date, ADD_MONTHS(join_date, 6) AS after_6_month
  2  FROM employees1400;

EMP_NAME             JOIN_DATE AFTER_6_M
-------------------- --------- ---------
krishna singh        15-JAN-20 15-JUL-20
RAHUL                20-MAR-21 20-SEP-21
aMIT                 10-JUL-19 10-JAN-20
Sneha                25-NOV-22 25-MAY-23
   rohit             05-MAY-20 05-NOV-20

SQL>
SQL> SELECT emp_name, join_date, join_date + 10 AS after_10_days
  2  FROM employees1400;

EMP_NAME             JOIN_DATE AFTER_10_
-------------------- --------- ---------
krishna singh        15-JAN-20 25-JAN-20
RAHUL                20-MAR-21 30-MAR-21
aMIT                 10-JUL-19 20-JUL-19
Sneha                25-NOV-22 05-DEC-22
   rohit             05-MAY-20 15-MAY-20

SQL>
SQL> SELECT emp_name, join_date, SYSDATE - join_date AS days_since_join
  2  FROM employees1400;

EMP_NAME             JOIN_DATE DAYS_SINCE_JOIN
-------------------- --------- ---------------
krishna singh        15-JAN-20       2038.61781
RAHUL                20-MAR-21       1608.61781
aMIT                 10-JUL-19       2227.61781
Sneha                25-NOV-22       993.617813
   rohit             05-MAY-20       1927.61781
```

PRACTICAL 6

```
SQL Plus

SQL> SELECT emp_name, join_date, TO_CHAR(join_date, 'DD') AS day_part
  2  FROM employees1400;

EMP_NAME              JOIN_DATE DA
-------------------- --------- --
krishna singh        15-JAN-20 15
RAHUL                20-MAR-21 20
aMIT                 10-JUL-19 10
Sneha                25-NOV-22 25
   rohit             05-MAY-20 05

SQL>
SQL> SELECT emp_name, join_date, TO_CHAR(join_date, 'MM') AS month_part
  2  FROM employees1400;

EMP_NAME              JOIN_DATE MO
-------------------- --------- --
krishna singh        15-JAN-20 01
RAHUL                20-MAR-21 03
aMIT                 10-JUL-19 07
Sneha                25-NOV-22 11
   rohit             05-MAY-20 05

SQL>
SQL> SELECT emp_name, join_date, TO_CHAR(join_date, 'YYYY') AS year_part
  2  FROM employees1400;

EMP_NAME              JOIN_DATE YEAR
-------------------- --------- ----
krishna singh        15-JAN-20 2020
RAHUL                20-MAR-21 2021
aMIT                 10-JUL-19 2019
Sneha                25-NOV-22 2022
   rohit             05-MAY-20 2020

SQL>
SQL> SELECT emp_name,
  2         EXTRACT(DAY FROM join_date)   AS day_num,
  3         EXTRACT(MONTH FROM join_date) AS month_num,
  4         EXTRACT(YEAR FROM join_date)  AS year_num
  5  FROM employees1400;

EMP_NAME               DAY_NUM  MONTH_NUM   YEAR_NUM
-------------------- --------- ---------- ----------
krishna singh               15          1       2020
RAHUL                       20          3       2021
aMIT                        10          7       2019
Sneha                       25         11       2022
   rohit                     5          5       2020
```

PRACTICAL 6

```
SQL Plus
SQL>
SQL> SELECT emp_name, TO_CHAR(join_date, 'DD-Mon-YYYY') AS formatted_date
  2  FROM employees1400;

EMP_NAME              FORMATTED_DATE
-------------------   -------------------
krishna singh         15-Jan-2020
RAHUL                 20-Mar-2021
aMIT                  10-Jul-2019
Sneha                 25-Nov-2022
   rohit              05-May-2020

SQL>
SQL> INSERT INTO employees1400 (emp_id, emp_name, emp_city, join_date)
  2  VALUES (6, 'Manish', 'Jaipur', TO_DATE('15-AUG-2024', 'DD-MON-YYYY'));

1 row created.

SQL>
SQL> COMMIT;

Commit complete.
```