

5)

```
+-----+
| Todays_Date |
+-----+
| 2023/02/09  |
+-----+
1 row in set (0.00 sec)
```

6)

```
+-----+ +-----+ +-----+
| f_name | l_name | Experience_in_weeks |
+-----+ +-----+ +-----+
| Dheeraj | Mishra | 1131 |
| Mou     | Bhat   | 1173 |
+-----+ +-----+ +-----+
2 rows in set (0.00 sec)
```

7)

a)

```
MONTHS_BETWEEN
-----
.              11
```

b)

```
ADD_MONTH
-----
25-JUL-23
```

c)

```
NEXT_DAY
-----
31-JAN-23
```

d)

```
LAST_DAY
-----
31-JAN-23
```

e)

```
ROUND_TIM
-----
25-JAN-23
```

f)

```
TRUNC_DAT
-----
01-JAN-23
```

g)

```
TO_CHAR
-----
January 25 - 2023
```

8)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998
2	Barun	Kumar	Manager	16000	NULL	Marketing	NULL	09-Feb-1998
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998
4	Dheeraj	Mishra	Manager	7500	NULL	Sales	4	27-Dec-2001
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014
9	Mou	Bhat	Clerk	3000	NULL	Sales	4	08-Mar-2001
10	Sunny	Deol	Salesman	4000	10000	Marketing	2	31-Mar-2001
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017
12	Aamir	Khan	Salesman	3000	5000	Marketing	2	11-Jan-2013

12 rows in set (0.00 sec)

9)

emp_id	f_name	salary	dept	tax
1	Arun	90000	Production	40500.00
3	Chitra	60000	Production	18000.0
5	Emma	55000	Production	11000.0

3 rows in set (0.00 sec)

10)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	R&D	Delhi	8
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Marketing	Kol	2
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Accounts	Delhi	6
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Sales	Kol	4
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	R&D	Delhi	8
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Production	Kol	1
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Accounts	Delhi	6
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Sales	Kol	4
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	R&D	Delhi	8
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Marketing	Kol	2
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Accounts	Delhi	6
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Sales	Kol	4
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	R&D	Delhi	8
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Marketing	Kol	2
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Production	Kol	1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Accounts	Delhi	6
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	R&D	Delhi	8
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Marketing	Kol	2
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Accounts	Delhi	6
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Sales	Kol	4
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	R&D	Delhi	8
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Marketing	Kol	2
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Production	Kol	1
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Sales	Kol	4
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	R&D	Delhi	8
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Marketing	Kol	2
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Production	Kol	1
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Sales	Kol	4
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Marketing	Kol	2
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Production	Kol	1
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Sales	Kol	4
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Marketing	Kol	2
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Production	Kol	1
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Accounts	Delhi	6
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	R&D	Delhi	8
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Production	Kol	1
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Accounts	Delhi	6
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Sales	Kol	4
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Production	Kol	1
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Accounts	Delhi	6
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Sales	Kol	4
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Production	Kol	1
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Accounts	Delhi	6
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Sales	Kol	4

11)

f_name	l_name	d_loc
Arun	Khan	Kol
Barun	Kumar	Kol
Chitra	Kapoor	Kol
Dheeraj	Mishra	Kol
Emma	Dutt	Kol
Floki	Dutt	Delhi
Dheeraj	Kumar	Delhi
Saul	Good	Delhi
Mou	Bhat	Kol
Sunny	Deol	Kol
Bobby	Deol	Delhi
Aamir	Khan	Kol

12 rows in set (0.00 sec)

12)

k)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	R&D	Delhi	8
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Marketing	Kol	2
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Accounts	Delhi	6
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Sales	Kol	4
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	R&D	Delhi	8
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Production	Kol	1
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Accounts	Delhi	6
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Sales	Kol	4
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	R&D	Delhi	8
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Marketing	Kol	2
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Accounts	Delhi	6
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Sales	Kol	4
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	R&D	Delhi	8
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Marketing	Kol	2
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Production	Kol	1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Accounts	Delhi	6
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	R&D	Delhi	8
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Marketing	Kol	2
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Accounts	Delhi	6
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Sales	Kol	4
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	R&D	Delhi	8
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Marketing	Kol	2
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Production	Kol	1
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Sales	Kol	4
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	R&D	Delhi	8
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Marketing	Kol	2
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Production	Kol	1
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Sales	Kol	4
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Marketing	Kol	2
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Production	Kol	1
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	Sales	Kol	4
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Marketing	Kol	2
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Production	Kol	1
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Accounts	Delhi	6
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	R&D	Delhi	8
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Production	Kol	1
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Accounts	Delhi	6
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Sales	Kol	4
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Production	Kol	1
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Accounts	Delhi	6
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Sales	Kol	4
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Production	Kol	1
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Accounts	Delhi	6
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Sales	Kol	4

l)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2

12 rows in set (0.01 sec)

m)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2

12 rows in set (0.00 sec)

n)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8

12 rows in set (0.00 sec)

o)

emp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_id
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	1
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	2
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	1
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	6
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	4
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	2
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	2

12 rows in set (0.00 sec)