5)

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

6)

f_name	l_name	Experience_in_weeks
Dheeraj Mou	Mishra Bhat	1131 1173
_	Bhat +	1173

7)

a)

```
MONTHS_BETWEEN
```

b)

```
ADD_MONTH
```

c)

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

d)

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

e)

```
ROUND_TIM
-----
25-JAN-23
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f)

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TRUNC_DAT
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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	17-0ct-2017
12	Aamir	Khan	Salesman	3000	5000	Marketing	2	11-Jan-2013
+ 12 rows ir	set (0.0	+ 0 sec)	+	+		+	+	+

9)

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 6
3	Chitra Chitra	Kapoor Kapoor	Engineer	60000 60000	NULL NULL	Production Production	1 1	08-Jan-1998 08-Jan-1998	Accounts Sales	Delhi Kol	0
4	Dheeraj	Mishra	Engineer Manager	75000	NULL NULL	Sales	4	27-Dec-2001	R&D	Delhi	8
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001 27-Dec-2001	Marketing	Kol	2
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001 27-Dec-2001	Production	Kol	1 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	i īi
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	j 1 j
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 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 R&D	Kol Delhi	4
8	Saul Saul	Good Good	Engineer	60000	NULL NULL	R&D R&D	NULL NULL	06-Sep-2014 06-Sep-2014	K&D Marketing	Deini	8 2
8	Saul	Good	Engineer	60000 60000	NOLL NULL	R&D	NULL NULL		Marketing Production	Kol	1 1
8	Saul	Good	Engineer Engineer	60000	I NULL	R&D	I NULL	06-Sep-2014 06-Sep-2014	Accounts	Delhi	6
8	Saul	Good	Engineer	60000	l NULL	R&D	I NULL	06-Sep-2014	Sales	Kol	4
9	Mou	Bhat	Clerk	30000	NULL NULL	Sales	4	08-Mar-2001	R&D	Delhi	8
9	Mou	Bhat	Clerk	30000	NULL NULL	Sales	4	08-Mar-2001	Marketing	Kol	2
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Production	Kol	1 1
9	Mou	Bhat	Clerk	30000	NULL 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	j 6 j
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 1
12	Aamir Aamir	Khan	Salesman	15000	5000 5000	Marketing	2 2	11-Jan-2013	Accounts Sales	Delhi Kol	6 4
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Sales	KOI	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)

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 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 1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Accounts	Delhi	6
1 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 2	Barun Barun	Kumar Kumar	Manager	80000 80000	NULL NULL	Marketing	NULL NULL	09-Feb-1998 09-Feb-1998	Marketing Production	Kol Kol	2
2 2	Barun	Kumar	Manager Manager	80000	NULL NULL	Marketing Marketing	NULL	09-Feb-1998	Accounts	Delhi	I 6
2	Barun	Kumar	Manager	80000	I NULL	Marketing	NULL NULL	09-Feb-1998	Sales	Kol	4
3	Chitra	Kapoor	Engineer	60000	I NULL	Production	1	08-Jan-1998	R&D	Delhi	8
j 3	Chitra	Kapoor	Engineer	60000	NULL	Production	1 1	08-Jan-1998	Marketing	Kol	2
j 3	Chitra	Kapoor	Engineer	60000	NULL	Production	1 1	08-Jan-1998	Production	Kol	1 1
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1 1	08-Jan-1998	Accounts	Delhi	6
iзi	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Sales	Kol	4
4	Dheeraj	Mishra	Manager	75000	NULL	Sales		27-Dec-2001	R&D	Delhi	8
4	Dheeraj	Mishra	Manager	75000	NULL	Sales		27-Dec-2001	Marketing	Kol	2
4	Dheeraj	Mishra	Manager	75000	NULL	Sales		27-Dec-2001	Production	Kol	1 1
4	Dheeraj	Mishra	Manager	75000	NULL	Sales		27-Dec-2001	Accounts	Delhi	6
4	Dheeraj	Mishra	Manager	75000	NULL	Sales		27-Dec-2001	Sales	Kol	4
5	Emma	Dutt	Engineer	55000	NULL	Production		20-Mar-2002	R&D	Delhi	8
5	Emma	Dutt	Engineer	55000	NULL	Production		20-Mar-2002	Marketing	Kol	2
5	Emma	Dutt	Engineer	55000	NULL	Production		20-Mar-2002	Production	Kol	1
5	Emma	Dutt	Engineer	55000	NULL	Production		20-Mar-2002	Accounts	Delhi	6
5 6	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Sales R&D	Kol	4 8
6 6	Floki Floki	Dutt Dutt	Accountant	70000 70000	NULL NULL	Accounts	NULL NULL	16-Jul-2000 16-Jul-2000		Delhi Kol	8
6	Floki	Dutt	Accountant Accountant	70000	NULL	Accounts Accounts	NULL NULL	16-Jul-2000	Marketing Production	Kol	1 1
6	Floki	Dutt	Accountant	70000	I NULL	Accounts	NULL NULL	16-Jul-2000	Accounts	Delhi	6
6	Floki	Dutt	Accountant	70000	I NULL	Accounts	NULL NULL	16-Jul-2000	Accounts Sales	Kol	4
7	Dheerai	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	i <u>ī</u> i
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 4	08-Mar-2001	Production	Kol	1 1
9 9	Mou Mou	Bhat Bhat	Clerk Clerk	30000 30000	NULL NULL	Sales Sales	4	08-Mar-2001 08-Mar-2001	Accounts Sales	Delhi Kol	6 4
10	Sunny	Deol	Clerk 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 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	17-0ct-2017	Production	Kol	j 1 j
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Accounts	Delhi	j 6 j
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-Oct-2017	Sales	Kol	4
12	Aamir	Khan	Salesman	15000	5000	Marketing		11-Jan-2013	R&D	Delhi	8
12	Aamir	Khan	Salesman	15000	5000	Marketing		11-Jan-2013	Marketing	Kol	2
12	Aamir	Khan	Salesman	15000	5000	Marketing		11-Jan-2013	Production	Kol	1
12	Aamir	Khan	Salesman	15000	5000	Marketing		11-Jan-2013	Accounts	Delhi	6
12	Aamir	Khan	Salesman	15000	5000	Marketing		11-Jan-2013	Sales	Kol	4
+						+	+		+		++

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mp_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joining	d_name	d_loc	HOD_
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998	Production	Kol	
2	Barun	Kumar	Manager	80000	NULL	Marketing	NULL	09-Feb-1998	Marketing	Kol	
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998	Production	Kol	
4	Dheeraj	Mishra	Manager	75000	NULL	Sales	4	27-Dec-2001	Sales	Kol	
5	Emma	Dutt	Engineer	55000	NULL	Production	1	20-Mar-2002	Production	Kol	
6	Floki	Dutt	Accountant	70000	NULL	Accounts	NULL	16-Jul-2000	Accounts	Delhi	
7	Dheeraj	Kumar	Clerk	40000	NULL	Accounts	6	01-Jul-2016	Accounts	Delhi	
8	Saul	Good	Engineer	60000	NULL	R&D	NULL	06-Sep-2014	R&D	Delhi	
9	Mou	Bhat	Clerk	30000	NULL	Sales	4	08-Mar-2001	Sales	Kol	
10	Sunny	Deol	Salesman	20000	10000	Marketing	2	31-Mar-2001	Marketing	Kol	
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-0ct-2017	R&D	Delhi	
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	

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

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

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