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
```

f)

TRUNC\_DAT -----01-JAN-23

g)

TO_CHAR		
January	25	2023

8)

a)

emp_id	1   1	f_name	l_name	job_type	revised_salary	commission	dept	manager_id	date_of_joining
4	1   [	Oheeraj	Mishra	Manager	82500.0	NULL	Sales	4	27-Dec-2001
9	1   6	Mou	Bhat	Clerk	33000.0	NULL	Sales	4	08-Mar-2001

b)

+   emp_id   f_name	1_name	job_type	revised_salary	commission	dept	manager_id	date_of_joining
2   Barun   10   Sunny   12   Aamir		Manager Salesman Salesman	96000.0 24000.0 18000.0	10000	Marketing Marketing Marketing	2	09-Feb-1998 31-Mar-2001 11-Jan-2013

c)

p_id	f_name	l_name	job_type	salary	commission	dept	manager_id	date_of_joinir
1	Arun	Khan	Manager	90000	NULL	Production	NULL	04-Jan-1998
3	Chitra	Kapoor	Engineer	60000	NULL	Production	1	08-Jan-1998
	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
11	Bobby	Deol	Engineer	35000	NULL	R&D	8	17-0ct-2017

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

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

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 1
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
+						+	+	<del></del>	+		++

I)

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	
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-Oct-2017	R&D	Delhi	
12	Aamir	Khan	Salesman	15000	5000	Marketing	2	11-Jan-2013	Marketing	Kol	

n)

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	

## o)

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	