

1)

WORKER_FIRSTNAME
MONIKA
NIHARIKA
VISHAL
AMITABH
VIVEK
VIPUL
SATISH
GEETIKA

8 rows in set (0.00 sec)

2)

First3
Mon
Nih
Vis
Ami
Viv
Vip
Sat
Gee

8 rows in set (0.00 sec)

3)

Position_of_A
1

1 row in set (0.00 sec)

4)

```

+-----+
| COMPLETE_NAME |
+-----+
| Monika Arora |
| Niharika Verma |
| Vishal Singhal |
| Amitabh Singh |
| Vivek Bhati |
| Vipul Diwan |
| Satish Kumar |
| Geetika Chauhan |
+-----+
8 rows in set (0.00 sec)

```

5)

```

+-----+-----+-----+-----+-----+-----+
| Worker_ID | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin |
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin |
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |
| 6 | Vipul | Diwan | 200000 | 2014-06-11 09:00:00 | Account |
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |
| 5 | Vivek | Bhati | 500000 | 2014-06-11 09:00:00 | Admin |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

6)

```

+-----+-----+-----+-----+-----+-----+
| Worker_ID | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin |
| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |
| 4 | Amitabh | Singh | 500000 | 2014-02-20 09:00:00 | Admin |
| 7 | Satish | Kumar | 75000 | 2014-01-20 09:00:00 | Account |
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

7)

```

+-----+-----+-----+-----+-----+-----+
| Worker_ID | First_name | Last_name | Salary | Joining_date | Department |
+-----+-----+-----+-----+-----+-----+
| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |
| 2 | Niharika | Verma | 80000 | 2014-06-11 09:00:00 | Admin |
| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

8)

Worker_ID	First_name	Last_name	Salary	Joining_date	Department
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account

5 rows in set (0.00 sec)

9)

NO_OF_EMPLOYEE	DEPARTMENT
4	Admin

1 row in set (0.00 sec)

10)

NO_OF_EMPLOYEE	DEPARTMENT
4	Admin
2	HR
2	Account

3 rows in set (0.00 sec)

11)

Worker_ID	First_name	Last_name	Salary	Joining_date	Department
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin

2 rows in set (0.00 sec)

12)

Worker_ID	First_name	Last_name	Salary	Joining_date	Department	row_num
1	Monika	Arora	100000	2014-02-20 09:00:00	HR	1
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR	3
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin	5
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account	7

4 rows in set (0.00 sec)

13)

Worker_ID	First_name	Last_name	Salary	Joining_date	Department	Worker_ref_id	Bonus_date	Bonus_amount
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin	NULL	NULL	NULL
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin	NULL	NULL	NULL
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account	NULL	NULL	NULL
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account	NULL	NULL	NULL
8	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin	NULL	NULL	NULL

5 rows in set (0.00 sec)

14)

Worker_ID	First_name	Last_name	Salary	Joining_date	Department
1	Monika	Arora	100000	2014-02-20 09:00:00	HR
2	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
3	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
4	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
5	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
6	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
7	Satish	Kumar	75000	2014-01-20 09:00:00	Account
8	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

8 rows in set (0.00 sec)

15)

first_name	salary
Amitabh	500000
Vivek	500000

2 rows in set (0.00 sec)

16)

DEPARTMENT	NO_OF_EMPLOYEE
HR	2
Admin	4
Account	2

3 rows in set (0.00 sec)

17)

department	first_name	salary
Account	Vipul	200000
Account	Satish	75000
Admin	Amitabh	500000
Admin	Vivek	500000
Admin	Geetika	90000
Admin	Niharika	80000
HR	Vishal	300000
HR	Monika	100000

8 rows in set (0.00 sec)



18)

DEPARTMENT	SUM(SALARY)
HR	400000
Admin	1170000
Account	275000

3 rows in set (0.00 sec)

19)

i)

```
mysql> desc CUSTOMER;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Cust  | int  | NO   | PRI | NULL    |       |
| Cname | char(25) | YES |     | NULL    |       |
| City  | char(25) | YES |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> desc ORDERR;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Orderr | int  | NO   | PRI | NULL    |       |
| Odate  | date | YES  |     | NULL    |       |
| Cust   | int  | YES  | MUL | NULL    |       |
| Ord_Amt | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> desc ORDERR_ITEM;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Orderr | int  | NO   | PRI | NULL    |       |
| Item   | int  | YES  |     | NULL    |       |
| qty    | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> desc ITEM;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Item  | int  | YES  |     | NULL    |       |
| Unit_Price | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> desc SHIPMENT;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Orderr | int  | YES  |     | NULL    |       |
| Warehouse | int  | NO   | PRI | NULL    |       |
| Ship_Date | date | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> desc WAREHOUSE;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Warehouse | int  | YES  | MUL | NULL    |       |
| City      | char(25) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

li)

```
mysql> SELECT *FROM CUSTOMER;
+-----+-----+-----+
| Cust | Cname  | City  |
+-----+-----+-----+
| 234  | Jake   | Kolkata |
| 328  | Mischel | Delhi |
| 345  | Paul   | Varanashi |
| 457  | Marie  | Jadavpur |
| 626  | Robie  | Noida |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT *FROM ORDERR;
+-----+-----+-----+-----+
| Orderr | Odate      | Cust | Ord_Amt |
+-----+-----+-----+-----+
| 100    | 2023-06-13 | 234  | 5600    |
| 101    | 2023-01-04 | 345  | 45673   |
| 102    | 2023-02-24 | 626  | 9564    |
| 103    | 2023-05-27 | 328  | 3563    |
| 104    | 2023-07-09 | 457  | 8543    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT *FROM ORDERR_ITEM;
+-----+-----+-----+
| Orderr | Item | qty |
+-----+-----+-----+
| 100    | 10   | 12  |
| 101    | 11   | 34  |
| 102    | 12   | 56  |
| 103    | 13   | 76  |
| 104    | 14   | 36  |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT *FROM ITEM;
+-----+-----+
| Item | Unit_Price |
+-----+-----+
| 10    | 25000      |
| 11    | 45000      |
| 12    | 35000      |
| 13    | 15000      |
| 14    | 75000      |
+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT *FROM SHIPMENT;
+-----+-----+-----+
| Orderr | Warehouse | Ship_Date |
+-----+-----+-----+
| 104    | 2423       | 2023-07-09 |
| 102    | 2453       | 2023-01-20 |
| 100    | 3546       | 2023-01-16 |
| 103    | 6432       | 2023-06-11 |
| 101    | 7546       | 2023-04-02 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT *FROM WAREHOUSE;
```

Warehouse	City
3546	kolkata
7546	Varanashi
2453	Noida
6432	Delhi
2423	Jadavpur

```
5 rows in set (0.00 sec)
```

lii)

CUSTNAME	NO_OF_ORDERS	AVG_ORDER_AMT
Jake	1	5600.0000
Paul	1	45673.0000
Robie	1	9564.0000
Mischel	1	3563.0000
Marie	1	8543.0000

```
5 rows in set (0.00 sec)
```

lv)

Order_id
100

```
1 row in set (0.00 sec)
```

v)

```
mysql> SELECT *FROM ITEM;
+-----+-----+
| Item | Unit_Price |
+-----+-----+
| 11   | 45000     |
| 12   | 35000     |
| 13   | 15000     |
| 14   | 75000     |
+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT *FROM ORDERR_ITEM;
+-----+-----+-----+
| Orderr | Item | qty |
+-----+-----+-----+
| 100    | NULL | 12  |
| 101    | 11   | 34  |
| 102    | 12   | 56  |
| 103    | 13   | 76  |
| 104    | 14   | 36  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

20)

i)

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| e_no  | varchar(50) | YES  |     | NULL    |       |
| e_name | char(25)   | YES  |     | NULL    |       |
| e_phone | int        | YES  |     | NULL    |       |
| e_addr | varchar(100) | YES  |     | NULL    |       |
| e_salary | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

li)

```
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| e_no  | varchar(50) | NO   | PRI | NULL    |       |
| e_name | char(25)   | YES  |     | NULL    |       |
| e_phone | int        | YES  |     | NULL    |       |
| e_addr | varchar(100) | YES  |     | NULL    |       |
| e_salary | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

lii)



Field	Type	Null	Key	Default	Extra
e_no	varchar(50)	NO	PRI	NULL	
e_name	char(25)	YES		NULL	
e_phone	int	YES		NULL	
e_addr	varchar(100)	YES		NULL	
e_salary	int	YES		NULL	
e_pin	varchar(25)	YES		NULL	

6 rows in set (0.00 sec)

iv)

e_no	e_name	e_phone	e_addr	e_salary
1	Paul	2342424	2/4 Uttorpara dumdum kolkata - 42	240000
2	Raj	65794346	8 daycare saltlake kolkata - 52	670345
3	Ram	4353456	52 old delhi road delhi - 24	840000
4	Rajju	234252	56 rajbihari avenue kolkata - 26	76000
5	Rajdip	86487988	3/4 nagerbazar dumdum kolkata - 42	800000

5 rows in set (0.00 sec)

21)

i)

Field	Type	Null	Key	Default	Extra
e_no	int	NO	PRI	NULL	
e_name	char(25)	YES		NULL	
e_phone	int	YES		NULL	
e_addr	varchar(100)	YES		NULL	
e_salary	int	YES		NULL	

5 rows in set (0.00 sec)

ii)

Field	Type	Null	Key	Default	Extra
dept_no	int	NO	PRI	NULL	
dept_name	char(25)	YES		NULL	
e_no	int	YES	MUL	NULL	
dept_loc	varchar(25)	YES		NULL	
dept_hod	char(25)	YES		NULL	

5 rows in set (0.00 sec)

lii)

dept_no	dept_name	e_no	dept_loc	dept_hod
10	CSE	1	Kolkata	Ram
20	CSE IOT	2	Delhi	Rajju
30	CSE AIML	3	Rajasthan	Rajdip
40	CSE IT	4	Noida	Arghya
50	ME	5	Chennai	Pritish

5 rows in set (0.00 sec)

iv)

dept_no	dept_name	e_no	dept_loc	dept_hod
10	CSE	1	Kolkata	Ram
30	CSE AIML	3	Rajasthan	Rajdip
40	CSE IT	4	Noida	Arghya
50	ME	5	Chennai	Pritish

4 rows in set (0.00 sec)

22)

i)

EmployeeName	dept_hod
Ram	Rajdip

1 row in set (0.00 sec)

ii)

average_salary
240000.0000

1 row in set (0.00 sec)