

```
mysql> show tables;
+-----+
| Tables_in_rationcarddb1 |
+-----+
| distribution           |
| family_members          |
| officer                 |
| ration_card              |
| stock                   |
+-----+
5 rows in set (0.578 sec)
```

```
mysql> select*from ration_card;
+-----+-----+-----+-----+
| card_id | card_type | issue_date | status |
+-----+-----+-----+-----+
| 1001 | BPL | 2023-01-10 | ACTIVE |
| 1002 | APL | 2022-05-12 | ACTIVE |
| 1003 | AAY | 2021-08-15 | ACTIVE |
| 1004 | BPL | 2023-03-21 | ACTIVE |
| 1005 | APL | 2022-07-11 | ACTIVE |
| 1006 | BPL | 2023-02-18 | ACTIVE |
| 1007 | APL | 2022-09-05 | ACTIVE |
| 1008 | AAY | 2021-11-22 | ACTIVE |
| 1009 | BPL | 2023-04-01 | ACTIVE |
| 1010 | APL | 2022-10-19 | ACTIVE |
| 1011 | BPL | 2023-06-25 | ACTIVE |
| 1012 | AAY | 2021-12-30 | ACTIVE |
+-----+-----+-----+-----+
12 rows in set (0.023 sec)
```

```
mysql> select*from family_members;
+-----+-----+-----+-----+-----+
| member_id | card_id | member_name | age | relation |
+-----+-----+-----+-----+-----+
| 1 | 1001 | Zaara Shaikh | 21 | Self |
| 2 | 1001 | Ahmed Shaikh | 50 | Father |
| 3 | 1002 | Priya Sharma | 30 | Self |
| 4 | 1003 | Ravi Patel | 45 | Self |
| 5 | 1004 | Ayesha Khan | 28 | Self |
| 6 | 1005 | Rahul Verma | 35 | Self |
| 7 | 1006 | Fatima Shaikh | 25 | Self |
| 8 | 1007 | Arjun Singh | 40 | Self |
| 9 | 1008 | Meena Kumari | 55 | Self |
| 10 | 1009 | Imran Khan | 38 | Self |
+-----+-----+-----+-----+-----+
10 rows in set (0.011 sec)
```

```
mysql> select*from officer;
+-----+-----+-----+
| officer_id | officer_name | designation |
+-----+-----+-----+
| 201 | Mr. Khan | Food Inspector |
| 202 | Mr. Sharma | Supervisor |
| 203 | Ms. Patel | Clerk |
| 204 | Mr. Singh | Inspector |
| 205 | Ms. Verma | Officer |
| 206 | Mr. Gupta | Supervisor |
| 207 | Ms. Shaikh | Clerk |
| 208 | Mr. Khan | Inspector |
| 209 | Mr. Yadav | Officer |
| 210 | Ms. Sharma | Supervisor |
+-----+-----+-----+
10 rows in set (0.012 sec)
```

```

mysql> select*from stock;
+-----+-----+-----+
| item_id | item_name | quantity |
+-----+-----+-----+
| 101 | Rice | 495 |
| 102 | Wheat | 400 |
| 103 | Sugar | 300 |
| 104 | Oil | 200 |
| 105 | Salt | 150 |
| 106 | Dal | 250 |
| 107 | Tea | 180 |
| 108 | Milk Powder | 120 |
| 109 | Maize | 220 |
+-----+-----+-----+
9 rows in set (0.011 sec)

mysql> select*from distribution;
+-----+-----+-----+-----+-----+-----+
| dist_id | card_id | item_id | quantity_given | dist_date | officer_id |
+-----+-----+-----+-----+-----+-----+
| 1 | 1001 | 101 | 5 | 2026-02-22 | 201 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.008 sec)

```

```

mysql> UPDATE Stock
      -> SET quantity = quantity - 9
      -> WHERE item_id = 101;
Query OK, 1 row affected (0.064 sec)
Rows matched: 1    Changed: 1    Warnings: 0

```

```

mysql> select*from stock;
+-----+-----+-----+
| item_id | item_name | quantity |
+-----+-----+-----+
| 101 | Rice | 486 |
| 102 | Wheat | 400 |
| 103 | Sugar | 300 |
| 104 | Oil | 200 |
| 105 | Salt | 150 |
| 106 | Dal | 250 |
| 107 | Tea | 180 |
| 108 | Milk Powder | 120 |
| 109 | Maize | 220 |
+-----+-----+-----+
9 rows in set (0.006 sec)

```

```
mysql> CREATE TRIGGER check_stock_before_distribution
-> BEFORE INSERT ON Distribution
-> FOR EACH ROW
-> BEGIN
->     DECLARE available_stock INT;
->
->     SELECT quantity INTO available_stock
->     FROM Stock
->     WHERE item_id = NEW.item_id;
->
->     IF available_stock < NEW.quantity_given THEN
->         SIGNAL SQLSTATE '45000'
->         SET MESSAGE_TEXT = 'Not enough stock available';
->     END IF;
-> END;
-> //
```

Query OK, 0 rows affected (0.308 sec)