

```
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)