# First Normal Form (1NF) for the Given ER Diagram

To convert the given ER diagram into First Normal Form (1NF), we ensure that:  
  
1. Atomicity: Each attribute must contain atomic values.  
2. Uniqueness: Each table must have a primary key.  
3. No Repeating Groups: There should be no multivalued attributes or repeating columns.

## Users Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User ID (PK) | Name | Email | Address | Phone |
| 1 | John | j@x.com | A1 | 123456 |
| 2 | Sarah | s@y.com | A2 | 654321 |

## Food Donations Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Donation ID (PK) | User ID (FK) | Food Description | Quantity | Location Collected By |
| 101 | 1 | Bread | 10 | Location A |
| 102 | 2 | Rice | 5 | Location B |

## Requests Table

|  |  |  |  |
| --- | --- | --- | --- |
| Request ID (PK) | User ID (FK) | Donation ID (FK) | Status |
| 201 | 1 | 101 | Pending |
| 202 | 2 | 102 | Approved |

## Deliveries Table

|  |  |  |  |
| --- | --- | --- | --- |
| Delivery ID (PK) | Request ID (FK) | Status | Time |
| 301 | 201 | In Transit | 10:30 AM |
| 302 | 202 | Delivered | 12:00 PM |