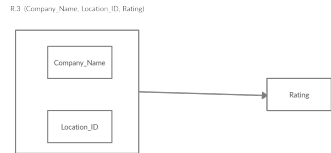
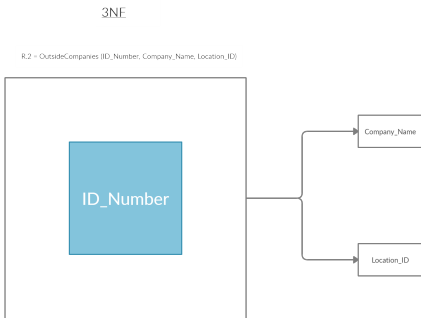
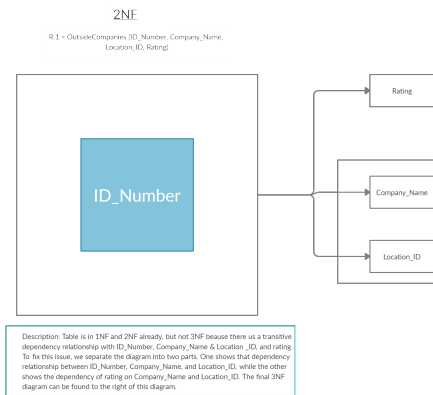
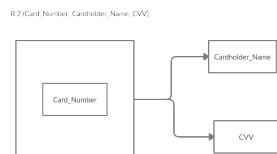
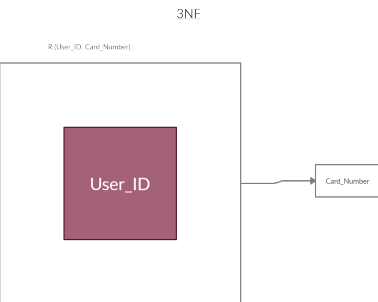
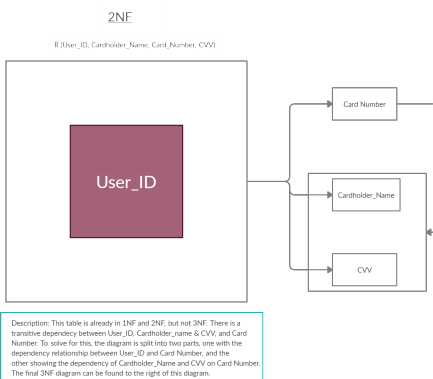
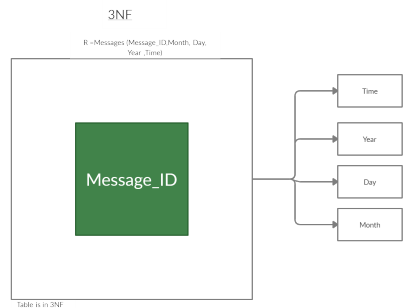
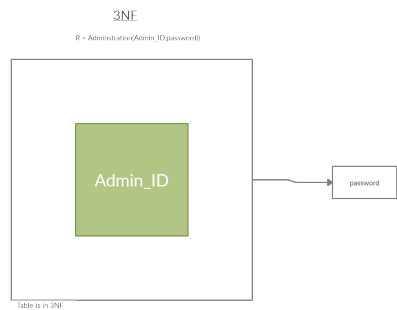


Final 3NF Diagram.



Final 3NF Diagram.



Final 3NF Diagram.

### 3NF

R =Date (Date\_ID, Date Number, Street Number, street name, hour, minute, month, day, Year)

Date\_ID

Table is in 3NF

Date Number

Street Number

Street Name

Hour

Minute

Year

Day

Month

### 3NF

R = Monitors(User\_ID, Admin\_ID)

User\_ID

Admin\_ID

Table is in 3NF

### 3NF

R = Deletes (User\_ID, Admin\_ID)

User\_ID

Admin\_ID

Table is in 3NF

### 3NF

R = Send (Message\_ID, Match\_ID)

Message\_ID

Match\_ID

Table is in 3NF

### 3NF

R = GoOn (Match\_ID, Date\_ID)

Match\_ID

Date\_ID

Table is in 3NF

Since most of our tables are already in the 3NF format, we have added an extra 'made-up' table to illustrate that we understand the normalization concepts. This table will NOT be added to our actual database, it is just used as a demonstration of our understanding.

R.1(User\_ID, match\_ID, Number\_of\_Dates, match\_Date, anniversary, username)

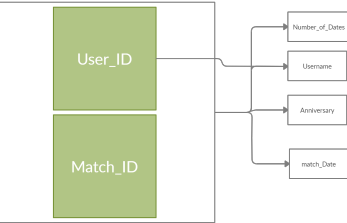


Table is in 1NF

**Functional Dependencies**

User\_ID --> Username  
User\_ID, Match\_ID --> Number\_of\_Dates, Anniversary, match\_ID, Username  
match\_Date --> Anniversary

To get to 2NF, we must get rid of the partial dependency that exists between (User\_ID, Match\_ID) and Username.

R.1(User\_ID, match\_ID, Number\_of\_Dates, match\_Date, anniversary)

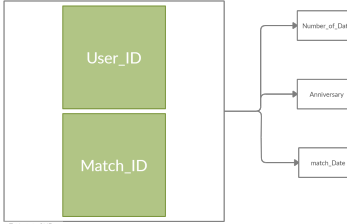


Table is in 2NF

**Functional Dependencies**

User\_ID, Match\_ID --> Number\_of\_Dates, Anniversary, match\_ID  
match\_ID --> Anniversary

To get to 3NF, we must get rid of the transitive dependency that exists with (User\_ID, Match\_ID), match\_Date, and Anniversary.

R.2(User\_ID, Username)

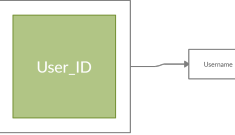


Table is in 3NF

**Functional Dependencies:**  
User\_ID --> Username



R.1(User\_ID, match\_ID, Number\_of\_Dates, match\_Date, anniversary)

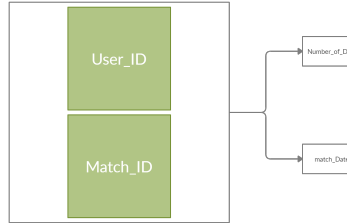


Table is in 3NF

**Functional Dependencies:**  
User\_ID, Match\_ID --> Number\_of\_Dates, match\_Date

R.3 (match\_Date, Anniversary)

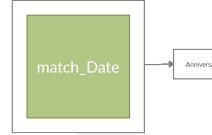


Table is in 3NF

**Functional Dependencies:**  
match\_ID --> Anniversary

R.3(User\_ID, Username)

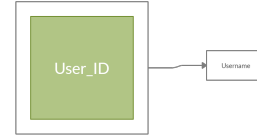


Table is in 3NF

**Functional Dependencies:**  
User\_ID --> Username