**Learning Activity 3.5: Normalization Task 1**

Consider the following table with sample data

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| **AccountID** | **AccountType** | **CurrentBalance** | **AccountHolderID** | **AccountHolderName** |
| A111 | Checking | $1,000.00 | C111 | Joe Smith |
| C222 | Sue Smith |
| A222 | Checking | $2,000.00 | C333 | Mary Moore |
| A333 | Money Market | $15,000.00 | C444 | Pat Clark |
| C555 | Lisa Clark |
| C666 | Timmy Clark |
| A444 | Savings | $3,000.00 | C111 | Joe Smith |
| C222 | Sue Smith |

1. Normalize the BANK ACCOUNTS table to 1NF by increasing the number of records in the existing table.

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| --- | --- | --- | --- | --- |
| **AccountID** | **AccountType** | **CurrentBalance** | **AccountHolderID** | **AccountHolderName** |
| A111 | Checking | $1,000.00 | C111 | Joe Smith |
| A111 | Checking | $1,000.00 | C222 | Sue Smith |
| A222 | Checking | $2,000.00 | C333 | Mary Moore |
| A333 | Money Market | $15,000.00 | C444 | Pat Clark |
| A333 | Money Market | $15,000.00 | C555 | Lisa Clark |
| A333 | Money Market | $15,000.00 | C666 | Timmy Clark |
| A444 | Savings | $3,000.00 | C111 | Joe Smith |
| A444 | Savings | $3,000.00 | C222 | Sue Smith |

1. Normalize the BANK ACCOUNT table to 1NF by creating a new separate table in addition to the existing table.

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| --- | --- | --- | --- | --- | --- |
| **AccountID** | **AccountType** | **AccountHolderID** | | **AccountHolderName** | |
| A111 | Checking | C111 | | Joe Smith | |
| A111 | Checking | C222 | | Sue Smith | |
| A222 | Checking | C333 | | Mary Moore | |
| A333 | Money Market | C444 | | Pat Clark | |
| A333 | Money Market | C555 | | Lisa Clark | |
| A333 | Money Market | C666 | | Timmy Clark | |
| A444 | Savings | C111 | | Joe Smith | |
| A444 | Savings | C222 | | Sue Smith | |
| **AccountID** | **CurrentBalance** | | **AccountHolderName** | |
| A111 | $1,000.00 | | Joe Smith | |
| A111 | $1,000.00 | | Sue Smith | |
| A222 | $2,000.00 | | Mary Moore | |
| A333 | $15,000.00 | | Pat Clark | |
| A333 | $15,000.00 | | Lisa Clark | |
| A333 | $15,000.00 | | Timmy Clark | |
| A444 | $3,000.00 | | Joe Smith | |
| A444 | $3,000.00 | | Sue Smith | |