The first three normal forms are 1NF, 2NF, and 3NF.

According to our textbook, the first normal form, or 1NF, is the first stage in normalization. 1NF describes the relations, in a tabular form, of entities with all the key attributes defined, no repeating groups in the table, and all the attributes being dependent on the primary key (Coronel & Morris, 2019, Ch. 6, p. 209).

The second normal form, or 2NF, is the second stage in the normalization process. The 2NF occurs by creating tables from the 1NF and eliminating any partial dependencies (Coronel & Morris, 2019, Ch. 6, p. 210).

The third normal form, or 3NF, occurs when a table is already in 2NF form and contains no transitive dependencies (Coronel & Morris, 2019, Ch. 6, p. 212).

|  |  |  |  |
| --- | --- | --- | --- |
| **Full Name** | **Address** | **Phone Number** | **Movies Rented** |
| Barbara Watson | 1234 First Ave | 817-555-3245 | Phantom of the Opera, Bedazzled |
| Tricia Clampitt | 2356 Second St | 817-555-7823 | Bring it On, Save the Last Dance |
| Shaun Hoadley | 420 Huff Dr | 817-555-0666 | The Accountant, RED, Superman |

**Database table of movies rented. Combination Key of name and address.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Full Name** | **Address** | **Phone Number** | **Movies Rented** |
| Barbara Watson | 1234 First Ave | 817-555-3245 | Phantom of the Opera |
| Barbara Watson | 1234 First Ave | 817-555-3245 | Bedazzled |
| Tricia Clampitt | 2356 Second St | 817-555-7823 | Bring it On |
| Tricia Clampitt | 2356 Second St | 817-555-7823 | Save the Last Dance |
| Shaun Hoadley | 420 Huff Dr | 817-555-0666 | The Accountant |
| Shaun Hoadley | 420 Huff Dr | 817-555-0666 | RED |
| Shaun Hoadley | 420 Huff Dr | 817-555-0666 | Superman |

**Database table of movies rented in 1NF. Combination Key of name and address.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member ID** | **Full Name** | **Address** | **Phone** |
| 1 | Barbara Watson | 1234 First Ave | 817-555-3245 |
| 2 | Tricia Clampitt | 2356 Second St | 817-555-7823 |
| 3 | Shaun Hoadley | 420 Huff Dr | 817-555-0666 |

|  |  |
| --- | --- |
| **Member ID** | **Movies Rented** |
| 1 | Phantom of the Opera |
| 1 | Bedazzled |
| 2 | Bring it On |
| 2 | Save the Last Dance |
| 3 | The Accountant |
| 3 | RED |
| 3 | Superman |

**Database table of movies rented divided into 2 tables with a single column primary key. Table 2 Primary key is a foreign key.**

As there are already no transitive dependencies in the 2NF form, it is also normalized into 3NF.

**References**

Coronel, C., & Morris, S. (2019). [Database systems: Design, implementation, and management](https://ashford.instructure.com/courses/74798/modules/items/3783232) (13th ed.). Retrieved from https://www.vitalsource.com