|  |  |
| --- | --- |
| **Student Information System**   1. What is your full name? 2. What is your age range? (18-24, 25-29, 30-39, 40+) 3. What are all the addresses of all your primary homes? 4. What are your favorite games? | 1. What are your favorite colors? 2. What are your favorite foods? |

Normalization is the process of organizing data in a database. This includes creating tables and establishing relationships between those tables according to rules designed both to protect the data and to make the database more flexible by eliminating redundancy and inconsistent dependency.

Person\_Tbl

|  |  |  |  |
| --- | --- | --- | --- |
| Person\_ID | FirstName | LastName | Age |
| 1000 | Bob | Dole | 30-39 |
| 1001 | Sara | Anderson | 40+ |

Address\_Tbl

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Person\_ID | Effective\_Date | Address | City | State | Zip |
| 1000 | ##/##/#### | 10 Smith Street | Eau Claire | WI | 54701 |
| 1000 | ##/##/#### | 45 Sunny Dr | Miami | FL | 99999 |
| 1001 | ##/##/#### | 98 Cty T | Eleva | WI | 54755 |

Food\_Person\_Tbl

|  |  |
| --- | --- |
| Person\_ID | Food\_ID |
| 1000 | 1 |
| 1000 | 2 |
| 1000 | 3 |
| 1001 | 3 |
| 1001 | 4 |

Food\_Tbl

|  |  |
| --- | --- |
| Food\_ID | Food |
| 1 | Pizza |
| 2 | Cottage Cheese |
| 3 | Tacos |
| 4 | Hamburgers |

Game\_Person\_Tbl

|  |  |
| --- | --- |
| Person\_ID | Game\_ID |
| 1000 | 1 |
| 1001 | 2 |
| 1000 | 3 |
| 1001 | 3 |

Game\_Tbl

|  |  |
| --- | --- |
| Game\_ID | Game |
| 1 | Settlers of Catan |
| 2 | Ticket to Ride |
| 3 | Age of Empires |

Colors\_Person\_Tbl

|  |  |
| --- | --- |
| Person\_ID | Color\_ID |
| 1000 | 1 |
| 1000 | 2 |
| 1000 | 3 |
| 1001 | 3 |
| 1001 | 4 |

Colors\_Tbl

|  |  |
| --- | --- |
| Color\_ID | Color |
| 1 | Orange |
| 2 | Blue |
| 3 | Red |
| 4 | Pink |