|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **BOATS AND OWNERS** | | | | | | |
| **Last Name** | **First Name** | **Phone Number** | **Billing** **Address** | **Boat Name** | **Make/Model** | **Length in ft** |
| Battles | Jessie | 555-123-5555 | 66 Siren Street, Summerville GA 30747 | Siren Song | 2010 Yamaha Marine AR240 | 40 |
| Martinz | Gabby | 555-321-5555 | 99 Maidens Circle,  Summerville GA 30747 | The Dutchess | 2006 Suntracker Pontoon DD15 | 51 |
| Sanchez | Michael | 555-012-5555 | 132 Wallaby Way, Sydney GA 30161 | Casa Aqua | 2023 Vexus VX21 | 48 |
| Watkins | Josh | 555-210-5555 | 33 Aqua Holic Ave,  Whitewater GA 30989 | Landslide | 2023 Stingray 231DC | 28 |
| York | Jimmy | 555-000-5555 | 106 Maidens Circle,  Summerville GA 30747 | Shark Byte | 2010 Yamaha Marine AR240 | 40 |
| York | Johnny | 555-555-5555 | 2009 Ocean Ave,  Whitewater GA 30989 | The Black Pearl | 2006 Suntracker Pontoon DD15 | 51 |

1. **Create a table containing the information of boats and owners.**

**B. What issues arise from a list?**

Maintaining a list as a spreadsheet can be convenient for small-scale data management, but it can lead to modification problems as a company's data complexity grows. A list will result in modification problems if the same list of data contains two or more different things. In this exercise, the San Juan list wanted to compile a list of customer information as well as boat information in the same table. There can be problems with updating existing data, deleting data, and inserting new data. If you have a long list of data and you need to update information on perhaps a specific boat’s model number and the boat is listed multiple times, it will cause problems if not all the entries for that specific boat are updated. Manual data entry can also result in typographical errors, leading to incorrect or inconsistent information. When I went to rearrange my data in alphabetical order by last name, I used copy and paste to save time, however, this caused errors I had to correct. A way to avoid these modification problems is to use separate tables for customer information and boat information.

1. **Create two separate tables for the infromation that are linked to each other. I linked them together by the “Boat Names” field.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OWNERS** | | | | |
| **Owner Last Name** | **Owner First Name** | **Phone Number** | **Billing** **Address** | **Boat Name** |
| Battles | Battles | 555-123-5555 | 66 Siren Street, Summerville GA 30747 | Siren Song |
| Martinz | Gabby | 555-321-5555 | 99 Maidens Circle,  Summerville GA 30747 | The Dutchess |
| Sanchez | Michael | 555-012-5555 | 132 Wallaby Way, Sydney GA 30161 | Casa Aqua |
| Watkins | Josh | 555-210-5555 | 33 Aqua Holic Ave,  Whitewater GA 30989 | Landslide |
| York | Jimmy | 555-000-5555 | 106 Maidens Circle,  Summerville GA 30747 | Shark Byte |
| York | Johnny | 555-555-5555 | 2009 Ocean Ave,  Whitewater GA 30989 | The Black Pearl |

|  |  |  |
| --- | --- | --- |
| **BOATS** | | |
| **Boat Name** | **Make/Model** | **Length in ft** |
| Siren Song | 2010 Yamaha Marine AR240 | 40 |
| The Dutchess | 2006 Suntracker Pontoon DD15 | 51 |
| Casa Aqua | 2023 Vexus VX21 | 48 |
| Landslide | 2023 Stingray 231DC | 28 |
| Shark Byte | 2010 Yamaha Marine AR240 | 40 |
| The Black Pearl | 2006 Suntracker Pontoon DD15 | 51 |