|  |  |  |  |
| --- | --- | --- | --- |
| **Entity/attribute listing** | **1 NF** | **2 NF** | **3 NF** |
| Customer First Name | **Invoice** | **Invoice** | **Customer** |
| Customer last Name | Invoice # (PK) | Invoice # (PK) | Customer ID (PK) |
| Item name | Customer First Name | Customer First Name | Customer First Name |
| Customer Street | Customer last Name | Customer last Name | Customer last Name |
| Customer City | Customer Street | Customer Street | Customer Street |
| Customer State | Customer City | Customer City | Customer City |
| Customer Zip code | Customer State | Customer State | Customer State |
| Customer Country | Customer Zip code | Customer Zip code | Customer Zip code |
| Item Price | Customer Country | Customer Country | Customer Country |
| Item Description | Customer Phone # | Customer Phone # | Customer Phone # |
| Invoice Date | Customer ID | Customer ID | Customer Email |
| Pay by Date | Customer Email | Customer Email |  |
| Invoice Total | Invoice Date | Invoice Date | **Invoice** |
| # of Items Purchased | Pay by Date | Pay by Date | Invoice # (PK) |
| Item Total Cost |  |  | Customer ID (FK) |
| Customer ID | **Invoice Item** | **Item** | Invoice Date |
| Item # | Invoice # (FK) (PK-1) | Item # (PK) | Pay by Date |
| Invoice # (PK) | Item # (PK-2) (FK) | Item name |  |
| Customer Email | Item name | Item Price | **Item** |
| Customer Phone # | Item Price |  | Item # (PK) |
|  | # of Items Purchased | **Invoice Item** | Item name |
|  | Item description | Invoice # (FK) (PK-1) | Item Price |
|  |  | Item # (PK-2) (FK) | Item Description |
|  |  | # of items purchased |  |
|  |  |  | **Invoice Item** |
|  |  |  | Invoice # (FK) (PK-1) |
|  |  |  | Item # (PK-2) (FK) |
|  |  |  | # of item purchased |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity/attribute listing** | **1 NF** | **2 NF** | **3 NF** |
| Boat ID | **BOATS** | **Invoice** | **BOAT** |
| Name Of Boat Captain | Boat ID (PK) | Invoice # (PK) | Boat ID (PK) |
| Captains emp\_id | Boat Name | Customer First Name | Captain ID (FK) |
| Captains SSN | Boat seating capacity | Customer last Name | (FK) |
| Captains birthdate |  | Customer Street | Boat Name |
| Captains Cell # | **Boat Trips** | Customer City | Seating Capacity |
| Boat Name | Boat ID (FK) | Customer State |  |
| Boat Seating Capacity | Trip date | Customer Zip code |  |
| Trips Taken | Trip Time | Customer Country |  |
| Date and Time of Trips | Trip Price | Customer Phone # |  |
| Receipts of Trip | Trip # of passengers | Customer ID |  |
| Island Where Boat Go | Island destination | Customer Email |  |
| Island Population | Island population | Invoice Date | **Invoice** |
| Trip Prices | Captain emp\_id | Pay by Date | Invoice # (PK) |
| Captain ID | Captains SSN |  | Customer ID (FK) |
| Island ID | Captains birthdate | **Item** | Invoice Date |
| Trip ID | Captains Cell # | Item # (PK) | Pay by Date |
| Trip date |  | Item name |  |
|  |  | Item Price | **Item** |
|  |  |  | Item # (PK) |
|  |  | **Invoice Item** | Item name |
|  |  | Invoice # (FK) (PK-1) | Item Price |
|  |  | Item # (PK-2) (FK) | Item Description |
|  |  | # of items purchased |  |
|  |  |  | **Invoice Item** |
|  |  |  | Invoice # (FK) (PK-1) |
|  |  |  | Item # (PK-2) (FK) |
|  |  |  | # of item purchased |