**Database Documentation**

In all tables, there are the fields:

date\_created TIMESTAMP: used to record the timestamp that the table was created

last\_update TIMESTAMP: used to record the timestamp that the table was updated last

* Equipment
  + equipment\_id SMALLINT(5)
    - Primary key: used to identify equipment in the equipment table
  + name VARCHAR(45)
    - The name of the equipment
  + active TINYINT(1)
    - To identify whether the equipment is active: 1 or inactive: 0
  + warranty\_end\_date TIMESTAMP
    - The date that the warranty on the equipment ends
  + fk\_lease\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the equipment table and the lease table
  + fk\_vendor\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the equipment table and the vendor table
  + fk\_type\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the equipment table and the type table
* Type
  + type\_id SMALLINT(5)
    - Primary key: used to identify types in the type table
  + type VARCHAR(45)
    - The name of the type of the equipment
* Lease
  + lease\_id SMALLINT(5)
    - Primary key: used to identify leases in the lease table
  + start\_date TIMESTAMP
    - The lease start date timestamp
  + end\_date TIMESTAMP
    - The lease end date timestamp
* Vendor
  + vendor\_id SMALLINT(5)
    - Primary key: used to identify vendors in the vendor table
  + name VARCHAR(45)
    - The name of the vendor
  + phone VARCHAR(45)
    - The vendor phone number
  + email VARCHAR(50)
    - The vendor email
  + fk\_address\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the vendor table and the address table
* Inventory
  + inventory\_id SMALLINT(5)
    - Primary key: used to identify inventory in the inventory table
  + fk\_equipment\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the inventory table and the equipment table
  + fk\_employee\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the inventory table and the employee table
* Employee
  + employee\_id SMALLINT(5)
    - Primary key: used to identify employees in the employee table
  + first\_name VARCHAR(45)
    - The employee first name
  + last\_name VARCHAR(45)
    - The employee last name
  + phone\_number VARCHAR(45)
    - The employee phone number
  + work\_phone\_number VARCHAR(45)
    - The employee work number
  + email VARCHAR(45)
    - The employee email
  + username VARCHAR(45)
    - The employee username
  + password VARCHAR(45)
    - The employee password
  + active TINYINT(1)
    - To identify whether the employee is active: 1 or inactive: 0
  + fk\_address\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the employee table and the address table
  + fk\_room\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the employee table and the room table
* Country
  + country\_id SMALLINT(5)
    - Primary key: used to identify countries in the country table
  + country VARCHAR(45)
    - The name of the country
* City
  + city\_id SMALLINT(5)
    - Primary key: used to identify cities in the city table
  + city VARCHAR(45)
    - The name of the city
  + fk\_country\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the city table and the country table
* Address
  + address\_id SMALLINT(5)
    - Primary key: used to identify addresses in the address table
  + address VARCHAR(45)
    - The address
  + address2 VARCHAR(45)
    - The second line of the address
  + district VARCHAR(45)
    - The district that the address is in
  + postal\_code VARCHAR(10)
    - The address postal code
  + fk\_city\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the address table and the city table
* Office
  + office\_id SMALLINT(5)
    - Primary key: used to identify offices in the office table
  + office VARCHAR(45)
    - The name of the office
  + phone\_number VARCHAR(45)
    - The office phone number
  + equipment\_contact VARCHAR(45)
    - The number to contact for equipment needs
  + fk\_address\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the office table and the address table
* Room
  + room\_id SMALLINT(5)
    - Primary key: used to identify rooms in the room table
  + room VARCHAR(45)
    - The room name whether it is a number, a letter, or a combination of the two
  + floor TINYINT(3)
    - Floor number of the room
  + fk\_office\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the room table and the office table
* Reservable\_equipment
  + reservable\_equipment\_id SMALLINT(5)
    - Primary key: used to identify reservable equipment in the reservable equipment table
  + status TINYINT(1)
    - Status of the reservable equipment, whether it is reserved: 1 or not reserved: 0
  + fk\_inventory\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the reservable\_equipment table and the inventory table
* Reservation
  + reservation\_id SMALLINT(5)
    - Primary key: used to identify reservations in the reservaton table
  + start\_time TIMESTAMP
    - The date and time that the reservation started
  + end\_time TIMESTAMP
    - The date and time that the reservation ends
  + fk\_employee\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the reservation table and the employee table
* Reservation\_equipment
  + - This table is used to create a many to many relationship between the Reservable\_equipment table and the Reservation table
  + fk\_reservable\_equipment SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the reservation\_equipment table and the reservable\_equipment table
  + fk\_reservation\_id SMALLINT(5)
    - Foregin key: used to create a one to many relationship between the reservation\_equipment table and the reservation table