

Entity 1: Warehouse

- **Attributes:**
 - a. Warehouse Name (e.g., "The Angel Warehouse")
 - b. Parent Company
- **Keys:**
 - a. Warehouse ID (Primary Key)

Entity 2: Bay

- **Attributes:**
 - a. Bay Number (Unique)
 - b. Bay Location
 - c. Bay Height
 - d. Number of Bins in Bay
- **Keys:**
 - a. Bay Number (Primary Key)
 - b. Warehouse ID (Foreign Key)

Entity 3: Bin

- **Attributes:**
 - a. Bin Number (Unique within Bay)
 - b. Bin Size
 - c. Maximum Loaded Weight
- **Keys:**
 - a. Bin Number (Composite Key with Bay Number)
 - b. Bay Number (Foreign Key)

Entity 4: Fork Lift

- **Attributes:**
 - a. Equipment Number (Unique)
 - b. Maximum Carrying Weight
 - c. Fuel Type (Petrol or Electric)
- **Keys:**
 - a. Equipment Number (Primary Key)
 - b. Bay Number (Foreign Key)

Entity 5: Item

- **Attributes:**
 - a. Item Number (Unique)
 - b. Date Received
 - c. Item Weight
 - d. Date Moved (when relocated between bins)
- **Keys:**
 - a. Item Number (Primary Key)
 - b. Bin Number (Foreign Key)
 - c. Bay Number (Foreign Key)

Relationships:

- **Bay-to-Bin:** A one-to-many relationship (One bay contains many bins).
- **Fork Lift-to-Bay:** A one-to-one relationship (Each bay can have one forklift assigned).
- **Item-to-Bin/Bay:** A many-to-many relationship (Items can move between bins in different bays, which dates can be tracked).