

Entities and Their Attributes:

1. Bay

- **Attributes:**
 - Bay Number
 - Bay Location
 - Bay Height
- **Keys:**
 - **Primary Key:** Bay Number

2. Bin

- **Attributes:**
 - Bin Number (Composite Key: Part of the key along with Bay Number)
 - Bay Number (Foreign Key to Bay)
 - Bin Size
 - Max Loaded Weight
- **Keys:**
 - **Composite Primary Key:** (Bay Number, Bin Number) – Since each bin is uniquely identified within a bay by its number
 - **Foreign Key:** Bay Number (from Bay)

3. Forklift

- **Attributes:**
 - Equipment Number (Primary Key)
 - Bay Number (Foreign Key to Bay)
 - Max Carrying Weight
 - Power Type (Petrol or Electric)
- **Keys:**
 - **Primary Key:** Equipment Number
 - **Foreign Key:** Bay Number (from Bay)

4. Item

- **Attributes:**
 - Item Number (Primary Key)
 - Item Weight
 - Date Stored
 - Date Moved (if moved between bins)
 - Bin Number (Foreign Key to Bin)
 - Bay Number (Foreign Key to Bin)
- **Keys:**
 - **Primary Key:** Item Number
 - **Foreign Key:** (Bay Number, Bin Number) – The item is stored in a specific bin within a bay
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