

1. Entity: Bay

- Attributes:

- **Bay_Number (Primary Key):** A unique identifier for each bay.
- **Location:** The physical location of the bay within the warehouse.
- **Height:** The height of the bay.

2. Entity: Bin

- Attributes:

- **Bay_Number (Foreign Key):** The bay number to which the bin belongs.
- **Bin_Number (Primary Key, Composite with Bay_Number):** Unique number of the bin within each bay.
- **Size:** The size of the bin.
- **Max_Loaded_Weight:** The maximum weight the bin can hold.

3. Entity: Fork Lift

- Attributes:

- **Equipment_Number (Primary Key):** A unique identifier for each forklift.
- **Bay_Number (Foreign Key):** The bay number to which the forklift is allocated.
- **Max_Carrying_Weight:** The maximum carrying weight of the forklift.
- **Power_Type:** Type of power used by the forklift

4. Entity: Item

- Attributes:

- **Item_Number (Primary Key):** A unique identifier for each item.
- **Date_Received:** The date when the item was received into the warehouse.
- **Item_Weight:** The weight of the item.

5. Entity: Bin_Item

- Attributes:

- Item_Number (Foreign Key, Composite Primary Key):** The unique number of the item stored in the bin.
- Bay_Number (Foreign Key, Composite Primary Key):** The bay number of the bin storing the item.
- Bin_Number (Foreign Key, Composite Primary Key):** The bin number storing the item.
- Date_Placed:** The date when the item was placed into the bin.