The Angel Warehouse - Homework

1. Entity: Bay

- Attributes:
 - o **Bay Number** (Primary Key) unique identifier for each bay.
 - o **Bay Location** physical location of the bay in the warehouse.
 - Height height of the bay.
 - o **Parking Spot** indicates if there is a parking spot for a fork lift.
- Key:
 - o Primary Key: Bay Number

2. Entity: Bin

- Attributes:
 - Bin Number (Primary Key) unique identifier for each bin within a bay (e.g., BayNumber-BinNumber).
 - Size dimensions of the bin.
 - o Bay Number (Foreign Key) references the bay the bin belongs to.
 - o Maximum Loaded Weight maximum weight the bin can hold.
- Key:
 - Primary Key: Bin Number (composite with Bay Number)
 - o Foreign Key: Bay Number

3. Entity: Fork Lift

- Attributes:
 - Equipment Number (Primary Key) unique identifier for each fork lift.
 - Max Carrying Weight maximum weight the fork lift can carry.
 - Type indicates whether the fork lift is petrol or electric.
 - o **Bay Number** (Foreign Key) references the bay to which the fork lift is allocated.
- Key:
 - o Primary Key: Equipment Number
 - o Foreign Key: Bay Number

4. Entity: Item

- Attributes:
 - o **Item Number** (Primary Key) unique identifier for each item.
 - o **Date Entered** date the item was taken into the warehouse.
 - Weight weight of the item.
- Key:
 - o Primary Key: Item Number

5. Entity: Bin_Item (Associative Entity)

- Attributes:
 - o **Bin Number** (Foreign Key) references the bin where the item is stored.
 - o Item Number (Foreign Key) references the item stored in the bin.
 - Date Stored date the item was put into the bin.
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 - o Composite Key: (Bin Number, Item Number)
 - o Foreign Keys: Bin Number, Item Number