

For the scenario below identify the **entities**, their **attributes** and **appropriate keys**

The Angel Warehouse

The Angel Warehouse stores items for its parent company. The warehouse is organised into **bays**, which are **storage areas**, but the items themselves are stored **in bins**. Each **bay contains a number of bins**. Each bay is identified by a **unique bay number** and the bay location and the height of the bay are recorded. **Each bin** has a **different number** within the bay, always starting with bin no. 1, and while some bays have only 5 bins some have over 50. The **size of each bin is recorded**.

Some bays have a **parking spot** for one fork lift to help move items round the warehouse and lift items into bins. **Each fork lift** is allocated to a bay. Each fork lift has a **unique equipment number** and the maximum carrying weight of the fork lift needs to be known. Some fork lifts are **petrol driven** while some are **electric**.

For all bins the **maximum loaded weight** must be known.

When an item is taken into the **warehouse** it is assigned a **unique number** and the date is recorded as well as the item weight. **Bins can store a number of items** and when an item is put in a particular bin this date is also recorded. Items can be moved back and forth between bays and bins to optimise the warehouse storage.

Entities:

- The Angel Warehouse
- Fork Lift
- Bins

Attributes:

- Bays
- Storage areas
- Bins
- Different number
- Size of each bin
- Petrol driven forklift
- Electric forklift

Appropriate keys

- Number of bins
- Unique bay number
- Parking spot
- Forklift
- Unique equipment number
- Maximum loaded weight
- Unique number