

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.

Entity: bays

Attributes: bay\_location, bay\_height,

Appropriate keys: bay\_number, bin\_number, equipment\_number

Entity: bin

Attributes: size\_of\_bin, max\_weight, item\_bin\_date

Appropriate keys: bin\_number

Entity: fork\_lift

Attributes: max\_weight\_fork\_lift

Appropriate keys: equipment\_number

Entity: item

Attributes: date\_recorded, item\_weight, item\_bin\_date

Appropriate Keys: item\_number