

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

Bays

Unique bay number

Bay location

Height of bay

Number of Bins

Parking spot

Bins

Bin Number

Bin size

Maximum loaded weight

Number of items

Forklift

Unique equipment number

Maximum carry weight

Electric or petrol driven

Items

Unique Number

Item weight

Date of entry