

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.

Bay (Entity)

Bay_Number (key)

Bay_Location

Bay_Height

Bin (Entity)

Bay_Number (key)

Bin_Number (key)

Bin_Size

Maximum_Loaded_Weight

Forklift (Entity)

Bay_Number (key)

ForkLift_Number (key)

Maximum_Carrying_Weight

Forklift_Type

Item (Entity)

Item_Number (key)

Date_Stored

Item_Weight

Bay_Number (key)

Bin_Number (key)