

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 are shown in **red**, keys and attributes are shown in **blue**.