

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

Primary Key

Foreign Key

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:

Bay

Attributes:

bay-ID

bin-ID

location

height

Entity:

Bin

Attributes:

bin-ID

size

max-load-weight

Entity:

Fork lift

Attributes:

equipment-ID

bay-ID

max-carry-weight

fuel-type

Entity:

Item

Attributes:

item-ID

date

weight

bin-date