

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 is an entity. It's

Attributes:

Bay number

Height

location

Primary Key: (bay number)

Bin is an entity. Its

Attributes:

Bin number (which is unique in each bay)

Size

Found in a bay

Maximum weight

Stores multiple items

Primary Key: (bin number)

Fork Lift is an entity. Its

Attributes:

Power type

Maximum carrying weight

Equipment number

Allocated in a specific bay

Primary Key: (equipment number)

Items is an entity. Its

Attributes:

Item number

Date places in a bin

Weight

Date of entry into the warehouse

Primary Key: (item number)