

The Angel Warehouse Task 1

The Angel Warehouse

The Angel Warehouse stores items for its parent company. The warehouse is organized 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 forklift is allocated to a bay. Each fork lift has a unique equipment number and the maximum carrying weight of the forklift needs to be known. Some forklifts 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 optimize the warehouse storage.

Entities and Attributes

Bay

Bay_number (Primary Key)

Bay_Location

Bay_Height

Bin

Bin_number (Primary Key)

Bay_number (Foreign Key)

Size

Max_loaded_weight

Fork Lift

Equipment_number (Primary Key)

Bay_number (Foreign Key)

Max_carrying_weight

Type

Item

Item_number (Primary Key)

Item_weight

Received_date

Bin_Item

Item_nnumber (Foreign Key, Composite Key)

Bay_number (Foreign Key, Composite Key)

Bin_number (Foreign Key, Composite Key)

Placed_in_bin_date

