

Inventory Quantity Calculations

item	qty_subgroup	amt_total
A1	A	10
A2	A	0
A3	null	10
A4	A	null
B1	null	5

Example Inventory

Rule #1

If the amt_total is null/blank, the quantity avail is unlimited, never sold out.
ex. item A4 is unlimited, no need to count how many sold.

Rule #2

If the qty_subgroup is null then it is a basic, single item total.

Total Avail = amt_total

Total Sold = select sum(qty) from purchase where item = B1

Amt Avail = Total Avail – Total Sold

Rule #3

If the qty_subgroup is not null then it is a group item total.

Total Avail = select sum(amt_total) from inventory where qty_subgroup = A
(group amount total: 10+0+null)

Total sold = select sum(qty) from purchase where item in (select item from
inventory where qty_subgroup = A)

(group amount sold: all A1,A2,A4)

Wait List

A4 is a typical waitlist item. The amt_total is null because we never want it to show sold out. We include it in the qty_subgroup A so it's sold amount is included when checking A1. If A1 is sold out and someone cancels, we don't want to open A1 back up while people are on the wait list. Change the waitlist amt_total to zero to close the list.