We want to generate an inventory age report which would show the distribution of remaining inventory across the length of time the inventory has been sitting at the warehouse. We are trying to classify the inventory on hand across the below 4 buckets to denote the time the inventory has been lying the warehouse.

* 0-90 days old
* 91-180 days old
* 181-270 days old
* 271 – 365 days old

For example, the warehouse received 100 units yesterday and shipped 30 units today, then there are 70 units which are a day old.

The warehouses use FIFO (first in first out) approach to manage inventory, i.e., the inventory that comes first will be sent out first.

Table

Description automatically generated

For example, on 20th May 2019, 250 units were inbounded into the FC. On 22nd May 2019, 8 units were shipped out (outbound) from the FC, reducing inventory on hand to 242 units. On 31st December, 120 units were further inbounded into the FC increasing the inventory on hand from 242 to 362.On 29th January 2020, 27 units were shipped out reducing the inventory on hand to 335 units.

On 29th January, of the 335 units on hands, 120 units were 0-90 days old (29 days old) and 215 units were 181-270 days old (254 days old).

**Columns:**

ID of the log entry

OnHandQuantity: Quantity in warehouse after an event

OnHandQuantityDelta: Change in on-hand quantity due to an event

event\_type: Inbound – inventory being brought into the warehouse; Outbound – inventory being sent out of warehouse

event\_datetime: date- time of event

**The data is sorted with latest entry at top.**

**Sample output:**

