This file includes brief description of tables and measures used in Stores report and relation between them.

## Relationship among tables

| Table 1 | Table 2 | Relationship | Joined on Column (Table 1) | Joined on Column (Table 2) |
|---------|---------|--------------|----------------------------|----------------------------|
| Closing Stock | Stock | Many to One | Item | Item |
| Item Age | Closing Stock | Many to One | Item Code | Item Code |
| Item Age | Days in Store | Many to One | Days in Store | Days in Store |
| Item Age | Stock | Many to One | Item | Item |
| Item Age | Stocked Issued | Many to One | Item Code | Item Code |
| MIN Report | Date | Many to One | Indent Issue Date | Date |
| MIN Report | Stock | Many to One | Item | Item |
| MRN Report | Date | Many to One | GRN Date | Date |
| MRN Report | Stock | Many to One | Item | Item |
| Stock Purchased | Stock | Many to One | Item | Item |
| Stock Purchased | Stock Issued | One to One | Item Code | Item Code |
| Stock | Stock Issued | One to One | Item Code | Item Code |

## Table Description

1. **MIN Report** - This table contains information related to indent issue.

   a) **Issue Slip Number** - Represents issue slip number.
   b) **Issue ID** - Contains issue id.
   c) **Item Code** - Represents unique code of item.
   d) **Item** - Contains name of item.
   e) **Category** - Tells about category of each item.
   f) **Department** - Represents department for which indent is issued.
   g) **Department Group** – Represents department groupings
   h) **Indent Raise Date** - Contains date on which indent is raised.
   i) **Indent Issue Date** - Date on which indent is issued.
   j) **Indent Issue Date and Time** - Represents date and time on which indent is issued.
   k) **Quantity Indented** - Contains total quantity indented.
   l) **Quantity Issued** - Contains total quantity issued.
   m) **FIFO Price** - Tells FIFO price of item.
   n) **Selling Price** - Contains selling price of item.
   o) **Total Value** - Represents total cost of quantity issued.
   p) **Cost MIN (In Crores) (measure)** - Represents 'Total Value' in Crores.
   q) **Cost MIN (Indian Format) (measure)** - Represents 'Total Value' in Indian Numbering System.

r) **Time Period MIN (measure)** - The period for which report is shown.
*Time Period MIN = if (HASONEVALUE('Date'[Month]), SELECTEDVALUE('Date'[Month]), YEAR(FIRSTDATE('MIN Report'[Indent Issue Date])))*

2. **MRN Report** - This table contains information of items purchased.

   a) **PO Number** - Represents purchase order number.
   b) **PO Date** - Represents purchase order date.
   c) **GRN Date** - Represents date on which order is received.
   d) **GRN Number** - Represents 'Goods Received Note' number.
   e) **Invoice Number** - Contains invoice number.
   f) **Invoice Date** - Contains invoice date.
   g) **Supplier Name** - Contains name of supplier.
   h) **Item** - Contains name of item.
   i) **Item Code** - Represents unique code of item.
   j) **Category** - Tells about category of each item issued.
   k) **Quantity Purchased** - Contains total quantity purchased for each item.
   l) **Quantity Issued** - Contains the quantity issued for each item for that PO.
   m) **Unit Price** - Represents unit price of item.
   n) **Purchase Cost** - Contains total cost of each purchased item.
   o) **FIFO Price** - Tells FIFO price of item.
   p) **Supply Delay (calculated column)** - Tells the time (in days) taken for an item to reach the store.
   *Supply Delay = If('MRN Report'[PO Date], DATEDIFF('MRN Report'[PO Date], 'MRN Report'[GRN Date], DAY), DATEDIFF('MRN Report'[Invoice Date], 'MRN Report'[GRN Date], DAY))*
   q) **Cost MRN (In Crores) (measure)** - Represents 'Purchase Cost' in Crores.
   r) **Cost MRN (Indian Format) (measure)** - Represents 'Purchase Cost' in Indian Numbering System.
   s) **Time Period MRN (measure)** - The period for which report is shown.
   *Time Period MRN = if (HASONEVALUE('Date'[Month]), SELECTEDVALUE('Date'[Month]), YEAR(FIRSTDATE('MRN Report'[GRN Date])))*

3. **Stock Issued** - This table provides detail about the quantity of items issued and their cost.

   a) **Item Code** - Represents unique code of item.
   b) **Item** - Contains name of issued item.
   c) **Category** - Tells about category of each item issued.
   d) **Quantity Issued** - Contains total quantity issued for each item.
   e) **Issue Cost** - Contains cost of each issued item.

4. **Stock Purchased** - This table provides detail about the quantity of items purchased and their cost.

   a) **Item Code** - Represents unique code of item.
   b) **Item** - Contains name of purchased item.

c) **Category** - Tells about category of each item purchased.
d) **Quantity Purchased** - Contains total quantity purchased for each item.
e) **Purchase Cost** - Contains cost of each purchased item.
f) **Supply Delay** - Tells the average time (in days) taken for an item to reach the store.

5. **Closing Stock** - This table provides detail related to closing stock.

a) **Item Code** - Represents unique code of item.
b) **Item** - Contains name of purchased item.
c) **Closing Stock** - Represent stock as on December 31, 2019.
d) **Closing Value** - Represent total cost of 'Closing Stock'.

6. **Stock** - This table contains information related to stock and its cost.

a) **Item Code** - Represents unique code for item.
b) **Item** - Contains name of purchased item.
c) **Category** - Tells about category of each item purchased.
d) **Quantity Purchased** - Contains total quantity purchased.
e) **Purchase Cost** - Contains cost of each purchased item.
f) **Supply Delay** - Tells the average time (in days) taken for an item to reach the store.
g) **Quantity Issued** - Contains total quantity issued for each item.
h) **Issue Cost** - Contains cost of each issued item.
i) **Closing Stock** - Represent stock as on December 31, 2019.
j) **Closing Value** - Represent total cost of 'Closing Stock'.
k) **IsDeficit (measure)** - Tells whether there is shortage of stock or not.
   *IsDeficit = if (SUM(Stock[Stock Level]) <= [Minimum Order Level], 0, 1)*
l) **Issue Cost (Indian Format) (measure)** - Represents 'Issue Cost' in Indian Numbering System.
m) **Maximum Order Level (measure)** - Calculates maximum quantity that can be in store.
   *Maximum Order Level = (SUM (Stock[Quantity Issued])/ [Total Weeks]) * 15*
n) **Minimum Order Level (measure)** - Calculates minimum quantity that should be in store.
   *Minimum Order Level = (SUM (Stock[Stock Level])/ [Total Weeks]) * 3*
o) **Purchase Cost (Indian Format) (measure)** - Represents 'Purchase Cost' in Indian Numbering System.
p) **Reorder Level (measure)** - Calculates the stock level at which item should be reordered.
   *Reorder Level = SUM (Stock[Quantity Issued]) *sum('Stock'[Supply Delay])/[Total Weeks] + [Minimum Order Level]*
q) **Stock Deficit (measure)** - Provides the quantity by which their is shortage of item.
   *Stock Deficit = if ([Minimum Order Level] - SUM (Stock[Stock Level]) <= 0, 0, [Minimum Order Level] - SUM(Stock[Stock Level]))*
r) **Stock Level (calculated column)** - Contains present stock quantity in store.
   *Stock Level = Stock [Quantity Purchased] - Stock[Quantity Issued] + Stock[Closing Stock]*
s) **Total Weeks (measure)** - Represents the number of weeks between the first GRN date and last issue date.

7. **Item Age** - This table provide information about items present in the store (Closing stock is not considered).

a) **Item Code** - Represents unique code of item.

b) **Item** - Contains name of item.
c) **Category** - Tells about category of item.
d) **GRN Date** - Contains date on which order is received.
e) **Quantity Purchased** - Represents total quantity purchased.
f) **Quantity Issued** - Represents total quantity issued.
g) **Unit Price** - Contains price of each item.
h) **Purchase Cost** - Contains cost of total quantity purchased.
i) **Days in Store (calculated column)** - Number of days item is in store.
   *Days in Store = DATEDIFF ('Item Age'[GRN Date], TODAY(), DAY)*
j) **Quantity Left (calculated column)** - Total quantity left in store.
   *Quantity Left = 'Item Age'[Quantity Purchased] - 'Item Age'[Quantity Issued]*
k) **Value Stuck (calculated column)** - Represents total cost of quantity left in store.
   *Value Stuck = 'Item Age'[Quantity Left] * 'Item Age'[Unit Price]*
l) **Value Stuck (In Crores) (measure)** - Represents 'Value Stuck' in Crores.
m) **Value Stuck (Indian Format) (measure)** - Represents 'Value Stuck' in Indian Numbering System.

8. **Indents** - This table contains information related to indents.

   a) **Issue ID** - Represents unique issue id for each order.
   b) **Quantity Indented** - Contains total quantity ordered.
   c) **Quantity Issued** - Contains total quantity issued.
   d) **Indent Raised Date** - Represents date on which indent is placed.
   e) **Indent Issued Date** - Represent date on which indent is issued.
   f) **Items Indented** - Contains total number of items indented.
   g) **Items Realised** - Contains total number of items which are completely issued.
   h) **Difference Between Date (In hours) (calculated column)** - Calculates the time (in hours) taken to complete the indent.
      *Difference Between Date (In Hours) = DATEDIFF (Indents[Indent Raised Date], Indents[Indent Issued Date],HOUR)*
   i) **Difference Between Date (In hours) (Groups)** - Divides 'Difference Between Date (In hours)' in 5 groups. The groups are '<= 6 hours', '6 - 12 hours', '12 - 18 hours', '18 - 24 hours', '> 24 hours'.
   j) **Indent Fulfilment Percentage by Item (calculated column)** - Represents the % of items (in number) that are issued from the indent.
      *Indent Fulfilment Percentage by Item = SWITCH (TRUE (), 'Indents'[Items Realised]/ Indents[Items Indented] >= 1, 1, 'Indents'[Items Realised]/ Indents[Items Indented] )*
   k) **Indent Fulfilment Percentage by Item (Groups)** - Divides 'Indent Fulfilment Percentage by Item' in 4 groups. The groups are '<= 25%', '25% - 50%', '50% - 75%', '75% - 99%'.
   l) **Indent Fulfilment Percentage by Quantity (calculated column)** - Represents % of items (in quantity) that are issued from the indent.

      *Indent Fulfilment Percentage by Quantity =*
      *SWITCH (TRUE (), Indents[Quantity Issued]/ Indents[Quantity Indented] >= 1, 1, Indents[Quantity Issued]/ Indents[Quantity Indented] )*

m) **Indent Fulfilment Percentage by Quantity (Groups)** - Divides 'Indent Fulfilment Percentage by Quantity' in 5 groups. The groups are '<= 20%', '20% - 40%', '40% - 60%', '60% - 80%', '80% - 99%'.

n) **Indent Realised (calculated column)** - Represents whether the indent is fully complete (1) or partially complete (0).
*Indent Realised = if (Indents[Items Realised] >= Indents[Items Indented], 1, 0)*

o) **Day (calculated column)** - Calculates 'Indent Issued Date' in 'Month Day, Year' format.
*Day = FORMAT (Indents[Indent Issued Date], "mmm") & " " & Indents[Indent Issued Date].[Day] & ", " & Indents[Indent Issued Date].[Year]*

p) **Month (calculated column)** - Extract month and year from 'Indent Issue Date'.
*Month = FORMAT (Indents[Indent Issued Date], "mmm") & ", " & Indents[Indent Issued Date].[Year]*

q) **Time Period Indents (measure)** - The period for which report is shown.

r) **Week (calculated column)** - Shows the week in which the indent is issued.

s) **Week End (calculated column)** - Contains date at end of the week for the week column.
*Week End = Indents[Indent Issued Date] + 1 - WEEKDAY(Indents[Indent Issued Date]) + 7*

t) **Week Start (Calculated Column)** - Contains date at start of week for the week column.
*Week Start = Indents[Indent Issued Date] + 1 - WEEKDAY(Indents[Indent Issued Date])*

u) **Year (Calculated Column)** - Extract year from 'Indent Issued Date' column.
*Year = YEAR(Indents[Indent Issued Date])*

9. **Date** - This table contains information related to date.

a) **Date (calculated column)** - Creates calendar from January 1, 2000 to December 31, 2025.
*Date = CALENDAR (DATE(2000,1,1), DATE(2025,12,31))*

b) **Month (calculated column)** - Extract month and year from 'Date' column in specific format.
*Month = FORMAT('Date'[Date], "mmm") & ", " & 'Date'[Date].[Year]*

c) **Day (calculated column)** - Extract month, day, and year from 'Date' column in specific format.
*Day = FORMAT('Date'[Date], "mmm") & " " & 'Date'[Date].[Day] & ", " & 'Date'[Date].[Year]*

d) **Year (calculated column)** - Extract year from 'Date' column.
*Year = 'Date'[Date].[Year]*

e) **Week (calculated column)** - Shows week in which 'Date' appear.

f) **Week Start (calculated column)** - Contains date at the start of week for the week column.
*Week Start = 'Date'[Date] + 1 - WEEKDAY('Date'[Date])*

g) **Week End (calculated column)** - Contains date at the end of the week for the week column.
*Week End = 'Date'[Date] + 1 - WEEKDAY('Date'[Date]) + 7*

h) **Time Period (measure)** - The period for which report is shown.

10. **Days in Store** - This table is used as a what if parameter (a text box to enter number of days). It filters the report with condition of greater than or equal to number of days entered.

a) **Days in Store (calculated column)** - Contains list of number from 15 to 365 which represents as number of days.
*Days in Store = GENERATESERIES(15, 365, 1)*

b) **Days in Store Value (measure)** - Returns value present in 'Days in Store' otherwise returns 30 as default value.
   *Days in Store Value = SELECTEDVALUE('Days in Store'[Days in Store], 30)*