

MRO Inventory Qlik Sense Script

//Main

```
SET ThousandSep=',';
SET DecimalSep='.';
SET MoneyThousandSep=',';
SET MoneyDecimalSep='.';
SET MoneyFormat='$#,##0.00;-$#,##0.00';
SET TimeFormat='h:mm:ss TT';
SET DateFormat='M/D/YYYY';
SET TimestampFormat='M/D/YYYY h:mm:ss[.fff] TT';
SET FirstWeekDay=6;
SET BrokenWeeks=1;
SET ReferenceDay=0;
SET FirstMonthOfYear=1;
SET CollationLocale='en-US';
SET CreateSearchIndexOnReload=1;
SET MonthNames='Jan;Feb;Mar;Apr;May;Jun;Jul;Aug;Sep;Oct;Nov;Dec';
SET
LongMonthNames='January;February;March;April;May;June;July;August;September;October;November
;December';
SET DayNames='Mon;Tue;Wed;Thu;Fri;Sat;Sun';
SET LongDayNames='Monday;Tuesday;Wednesday;Thursday;Friday;Saturday;Sunday';
SET NumericalAbbreviation='3:k;6:M;9:G;12:T;15:P;18:E;21:Z;24:Y;-3:m;-6:μ;-9:n;-12:p;-15:f;-18:a;-21:z;-
24:y';
```

//Load Inv and Join Calendar

```
//Load Inventory Data
```

```
MRO_Inv:
```

LOAD

"Date",
Material,
"Material Description",
Plant,
Qty,
// MovAvgPrice,
ROP,
"Max",
"Safety Stock",
"MRP Type",
Value,
Source,
BUn as UOM,
"Inv Start Value",
"ABC",
"ValCI",
UnitMovAvgPrice,
"Created On Date",
"Material Group"

FROM [lib://Supply Chain Data Files/SCA/Inv_co/Inventory/EOM_MRO_Inv_PRD.qvd]

(qvd)

;

Concatenate

Load

"Date",
Material,

```

    "Material Description",
    Plant,
    Qty,
//  MovAvgPrice,
    ROP,
    "Max",
    "Safety Stock",
    "MRP Type",
    Value,
    Source,
    BUn as "UOM",
    "Inv Start Value",
    "ABC",
    "ValCl",
    UnitMovAvgPrice,
    "Created On Date",
    "Material Group"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Inventory/EOM_MRO_Inv_GE1.qvd]
(qvd)
//Where Plant <> '0661'
;

```

```

//Standardize Descriptions
MRO_Inv_Desc:
LOAD
    Material,
    LastValue("Material Description") as "Material Description",

```

```

    Plant,

    LastValue("ValCl") as "ValCl",

    LastValue("Material Group") as "Material Group"

Resident MRO_Inv

Group By

    Material,

    Plant

Order by Date

;

Drop fields "Material Description", ValCl, "Material Group" from MRO_Inv;

Left Join(MRO_Inv)

Load*

Resident MRO_Inv_Desc;

Drop Table MRO_Inv_Desc;

//Load in Calendar

Left Join (MRO_Inv)

LOAD

    "Date",

//    "MM/DD",

    "Week Num",

    "Week Starting",

//    "Week Ending",

```

```
"Year",  
"Month",  
// "Day",  
// MonthYear,  
"MMM-YYYY",  
// "YYYY-MMM",  
"YY-MM",  
// Quarter,  
// "WW-YYYY",  
// "Week Day",  
// fSaturdaySunday,  
// fPrevMonth,  
// fCurrMonth,  
fLastDayOfWeek,  
// fLastDayOfMonth,  
// fTrailing12Months,  
// fCurrQtr,  
// fCurrMTD,  
// fCurrYTD,  
// fCurrYTDMonth,  
// fMTD_PY,  
// fMTD_PM,  
// fCurrWTD,  
// fPrevYrWTD,  
// fLast10Days,  
// TodayReference,  
// fCurrYr,  
// PrevYr,  
// fPrevYTD,
```

```
"Week",  
"YYYY-WW"  
// fLastDayofMonth,  
// "Last Day Of Month",  
// "YYYY-QQ"  
FROM [lib://Production QVDs/General/QlikCalendar.qvd]  
(qvd);
```

//Join Plant Names

Left Join (MRO_Inv)

```
LOAD  
    Text(Num("Plant Number",'0000')) as Plant,  
    "Plant Name"  
// Source,  
// "Source Plant"  
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Inventory/Inv_co Plant Information.xlsx]  
(ooxml, embedded labels, table is Sheet1);
```

//Load Adjusted Inventory

//Load Macon Capital Adjustment

```
InvAdj:  
NoConcatenate  
LOAD  
    Text(Material) as Material,  
    Text(Num("Plant",'0000')) as Plant,  
// "Material Number",
```

```

// "Val# Type",
// "Total Stock",
// BUn,
// "Total Value"
// Crcy,
// Pr#,
    FirstValue(MovAvgPrice) as "InvAdj_UnitMovAvgPrice_1",
// Crcy1,
// ValCat,
//     ValCl,
// "St Location",
// "Cost center"

//Add Column

    'Inv Adj' as "Inv Adj_1"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Macon.xlsx]
(ooxml, embedded labels, table is tbl_CapSparesToNonCapJan2020)
Group by Material, Plant;

//Load Augusta and Prosperity Adjustment
Concatenate
LOAD
    Text(Material) as Material,
    Text(Num("Profit Ctr",'0000')) as Plant,
    FirstValue("Adjusted Unit Value") as "InvAdj_UnitMovAvgPrice_1",
//Add Column

    'Inv Adj' as "Inv Adj_1"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Augusta.xlsx]

```

(ooxml, embedded labels, table is [UPLOAD DETAIL])

Group by Material, "Profit Ctr";

Concatenate

LOAD

Text(Num("Profit Center",'0000')) as Plant,

Text(Material) as Material,

FirstValue("Adjusted Unit Value") as "InvAdj_UnitMovAvgPrice_1",

//Add Column

'Inv Adj' as "Inv Adj_1"

FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Prosperity.xlsx]

(ooxml, embedded labels, table is [UPLOAD DETAIL])

Group by Material, "Profit Center";

Concatenate

LOAD

Text(Num(Plant,'0000')) as Plant,

Text(Material) as Material,

FirstValue("NewPrice") as "InvAdj_UnitMovAvgPrice_1",

//Add Column

'Inv Adj' as "Inv Adj_1"

FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/West Monroe.xlsx]

(ooxml, embedded labels, table is [change price])

Group by

Plant,

Material;

Concatenate

LOAD

Text(Num(Plant,'0000')) as Plant,

Text(Material) as Material,

FirstValue("New price") as "InvAdj_UnitMovAvgPrice_1",

//Add Column

'Inv Adj' as "Inv Adj_1"

FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Battle Creek.xlsx]

(ooxml, embedded labels, table is [val_class])

Group by

Plant,

Material

;

Concatenate

LOAD

Text(Num(Plant,'0000')) as Plant,

Text(Material) as Material,

FirstValue("NewPrice") as "InvAdj_UnitMovAvgPrice_1",

//Add Column

'Inv Adj' as "Inv Adj_1"

FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Kalamazoo.xlsx]

(ooxml, embedded labels, table is [change price])

Group by Plant, Material

;

Concatenate

LOAD

Text(Num(Plant,'0000')) as Plant,

Text(Material) as Material,

```

    FirstValue("NewPrice") as "InvAdj_UnitMovAvgPrice_1",
//Add Column
    'Inv Adj' as "Inv Adj_1"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Capital Adjustment/Middletown.xlsx]
(ooxml, embedded labels, table is [change price])
Group by Plant, Material;

```

//Load Inv_co Data

```
//Join Inv_co Verified and Unverified to Inventory Data
```

```
//Load All Inv_co List
```

```
Inv_co:
```

```
NoConcatenate
```

```
LOAD
```

```

    Text(Num("Plant ID", '0000')) as "Plant",
    Text("Material ID") as Material,
//  "Material description",
//  "Appears in # BOM(s)",
    "Calculated lead time" as "V.Calculated Lead Time",
    "Current MRP Type" as "V.Current MRP Type",
//  "Current on-hand inventory",
//  "Current safety stock",
//  "Current reorder point",
//  "Current total inventory value",
    "Recommendation Type" as "V.Recommendation Type",
    "Inv_co recommended safety stock" as "V.Recommended Safety Stock",
    "Inv_co recommended reorder point" as "V.Recommended ROP",
    "Inv_co recommended min" as "V.Recommended Min",
//  "Inv_co recommended max" as "V.Recommended Max",

```

```

// "Inv_co identified opportunity",
    Criticality as "V.Criticality",
// "Disagreement reorder point / safety stock" as "V.Revised ROP/SS",
// "Disagreement reason",
// "Disagreement additional info",
    "Average unit price" as "V Average unit Price",
// "Revised opportunity",
// Opportunity,
// Date(Floor("Date of last edit"), 'DD/MM/YYYY') as "Date of Last Edit",
    If(Status = 'agreed', 'Agreed',
        If(Status = 'disagreed', 'Disagreed',
            If(Status = 'identified', 'Identified'))) as "V.Decision1",
// "Reviewed stocking level",
// "Reviewed value",
// "Reviewed reduction",
// "Storage location",
// "Reviewing user",
// Date("Initial review date") as "Initial Inv_co Review Date",
    Date(left("Last review date",10)) as "Last Inv_co Review Date",
// "Pre-review safety stock",
// "Pre-review reorder point",
    "Pre-review onhand inventory" as "Pre-review onhand inventory",
    "Pre-review min",
    "Pre-review max",
// Minimum,
// Maximum,

//Add Columns
    If(Status = 'identified', 'Unverified', 'Verified') as "Status1",

```

```
MonthStart(Date((left("Last review date",10)), 'MMM-YY')) as "Last Inv_co Review Date Month",
```

```
//Add Max to materials with only min
```

```
    If(IsNull("Inv_co recommended max"),"Inv_co recommended min","Inv_co recommended max")  
as "V.Recommended Max"
```

```
FROM [lib://Supply Chain Data Files/SCA/Inv_co/Inv_co Files/All Inv_co Parts.csv]
```

```
(txt, codepage is 28591, embedded labels, delimiter is ',', msq);
```

```
//Load MB51
```

```
MvT:
```

```
LOAD * INLINE [
```

```
    "Movement Type"
```

```
    '101',
```

```
    '102'
```

```
];
```

```
MB51:
```

```
LOAD
```

```
//  "Material Document",
```

```
    Text(Material) as Material,
```

```
//  "Material Description",
```

```
    Text("Movement Type") as "Movement Type",
```

```
//  "Movement Type Text",
```

```
//  "Reason for Movement",
```

```
    Text(Num(Plant, '0000')) as "Plant",
```

```
//  "Storage Location",
```

```
    Text("Purchase Order") as "PO",
```

```
    Text(Item) as Item,
```

```

// "Order",
// "Cost Center",
// "User name",
// Date("Posting Date") as "Posting Date",
    Date("Document Date") as "Document Date",
    Quantity
// "Unit of Entry",
// "Amount in LC"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/MB51/SAP GE1 MRO Goods Issues and Receipts
20201210 with PO Item Number.xlsx]
(ooxml, embedded labels, table is Sheet1)
Where Exists("Movement Type");

```

Concatenate

LOAD

```

// "Mat. Doc.",
    Text(Material) as Material,
// "Material Description",
    Text(MvT) as "Movement Type",
// "Mvt Type Text",
// Reas.,
    Text(Num(Plant, '0000')) as "Plant",
// SLoc,
    Text(PO) as "PO",
    Text(Item) as Item,
// "Order",
// "Cost Center",
// "User name",

```

```

// Date("Pstng Date") as "Posting Date",
    Date("Doc. Date") as "Document Date",
    Quantity
// EUn,
// "Amount LC"
FROM [lib://Supply Chain Data Files/SCA/Inv_co/MB51/SAP PRD MRO Goods Issues Receipts Internal
Transfers 20201210 with PO Item Number.xlsx]
(ooxml, embedded labels, table is Sheet1)
Where Exists("Movement Type", MvT);

Drop table MvT;

MB51_1:
Load
    Material,
// FirstValue("Movement Type"),
    Plant,
// FirstValue(PO) as PO,
// FirstValue(Item) as Item,
    "Document Date",
    Sum(Quantity) as Quantity
Resident MB51
Group by
    Material,
    Plant,
    "Document Date",
;

Drop table MB51;

```

```
MB51_2:
Load
    Material,
    Plant,
    FirstValue("Document Date") as "New Material Date_1"
// Sum(Quantity) as Quntity
Resident MB51_1
Where Quantity > 0
Group by
    Material,
    Plant
Order by "Document Date"
;
```

```
Drop table MB51_1;
```

```
//Join and Add Measures
```

```
//Join Inv_co to MRO_Inv
```

```
Left Join(MRO_Inv)
```

```
Load *
```

```
Resident Inv_co;
```

```
//Join Capital Adjustment to MRO_Inv
```

```
Left Join(MRO_Inv)
```

```
Load*
```

```
Resident InvAdj;
```

```
//Join Capital Adjustment to MRO_Inv
```

```
Left Join(MRO_Inv)
```

```
Load *
```

```
Resident MB51_2;
```

```
//Join Mill Flag
```

```
left join(MRO_Inv)
```

```
LOAD * INLINE [
```

```
    "Plant", "Facility Type Flag_1"
```

```
    '0031', 'Mill',
```

```
    '0033', 'Mill',
```

```
    '0032', 'Mill',
```

```
    '0034', 'Mill',
```

```
    '0038', 'Mill',
```

```
    '0660', 'Mill',
```

```
    '0241', 'Mill'
```

```
];
```

```
//Add Measures and drop plants with no inventory
```

```
MRO_Inv_1:
```

```
Load *,
```

```
    If(IsNull("Status1"), 'Non-Inv_co', "Status1") as "Status",
```

```
    If(IsNull(V.Decision1), 'Non-Inv_co', V.Decision1) as V.Decision,
```

```
    If(IsNull("Inv Adj_1"), 'No Inv Adj', "Inv Adj_1") as "Inv Adj",
```



```

    If(ISNull(InvAdj_UnitMovAvgPrice_1), UnitMovAvgPrice, InvAdj_UnitMovAvgPrice_1) as
"InvAdj_UnitMovAvgPrice",
    If(ISNull(InvAdj_UnitMovAvgPrice_1), Value, InvAdj_UnitMovAvgPrice_1*Qty) as "InvAdj_Value",
        Date(MonthStart("Date")) as "MonthStartDate",
    "Plant" & '|' & "Material" as PlantMaterialKey,
    If(Qty <= 100, 'Unit <=100', 'Unit >100') as "Unit Flag",
    if(IsNull("Facility Type Flag_1"), 'Plant', 'Mill') as "Facility Type Flag",
    if(Source = 'PRD' and ValCl = '3041', 'Yes',
        if(Source = 'PRD' and ValCl = '3042', 'Yes',
            if(Source = 'PRD' and ValCl = '3043', 'Yes',
                if(Source = 'PRD' and Wildmatch("Material Group",'MA*')=1, 'Yes', 'No')))) as "PRD Capital Flag",
//Fix New Material Date and add flag
    if("Created On Date" <'01/01/2018', '01/01/1900',"New Material Date_1") as "New Material
Date",
    if("Created On Date" <'01/01/2018', null(), if(MonthStart("New Material Date_1") =
MonthStart(Date), 'New Material Month')) as "New Material Flag"

```

Resident MRO_Inv

Where Not Match (Plant,

```

    '0002',
    '0013',
    '0036',
    '0045',
    '0050',
    '0052',
    '0057',
    '0066',
    '0067',
    '0073',

```

```
'0076',  
'0077',  
'0100',  
'0661',  
'4400'  
)  
;
```

```
Drop Fields "Status1",[V.Decision1], "Inv Adj_1", InvAdj_UnitMovAvgPrice_1, "Facility Type Flag_1",  
"New Material Date_1";;
```

Drop Tables

```
Inv_co,  
MRO_Inv,  
InvAdj,  
MB51_2  
;
```