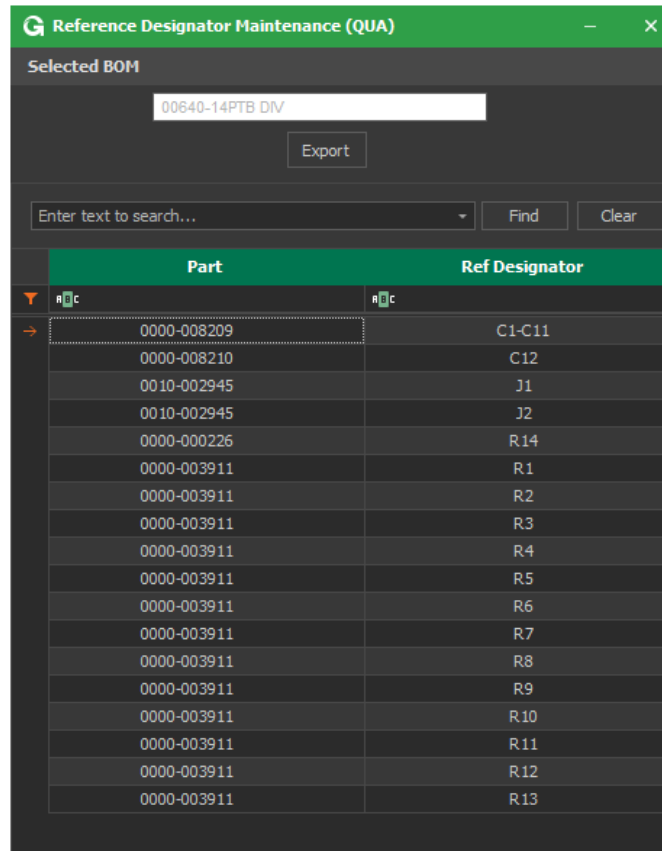


# **View: Duplicate Manufacturer Part Number in BOM Compare window**

## Scope

We need a view that shows the Manufacturer Part Numbers that are duplicated or associated with one or more than one Part Numbers. This view must be available in the BOM Compare window after the user Open or Drag and Drop the .CSV file that contains the BOM (Template) and before the user uploads the BOM (Save to GSS process).

This view must meet the same specifications as the "Reference Designator Maintenance" view which can be accessed from the Bill of Material window (Bill Of Material> File> Bill of Materials> Open)



Part	Ref Designator
0000-008209	C1-C11
0000-008210	C12
0010-002945	J1
0010-002945	J2
0000-000226	R14
0000-003911	R1
0000-003911	R2
0000-003911	R3
0000-003911	R4
0000-003911	R5
0000-003911	R6
0000-003911	R7
0000-003911	R8
0000-003911	R9
0000-003911	R10
0000-003911	R11
0000-003911	R12
0000-003911	R13

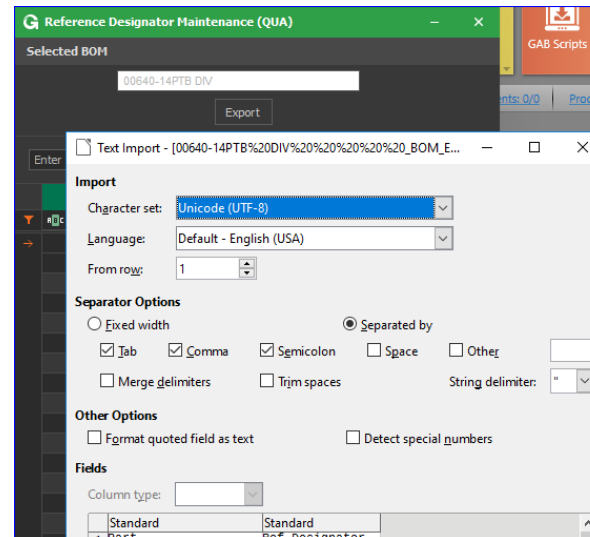
The validation process must be executed for each of the Manufacturer part Numbers in the CSV file. The view must show the result of all the validations made based on the conditions detailed in the Flowchart.

## Special Considerations

- This custom is simply a view, it should not have any impact on any of the processes that are executed through the BOM Compare.
- The requested validations are only to filter the Part Numbers and Manufacturer Part Numbers that should be shown in the view and must be executed after the user Open or Drag and Drop a .CSV file in the BOM Compare window. They are not related and should not impact the validations and processes that are specific to the custom that we have developed and implemented in the BOM Compare process when we upload the BOM.
- We have activated: "Long Part Number" and "Long XRef".

Field Lengths				
<input checked="" type="checkbox"/> Use Long Part (Large Inventory)	<input type="checkbox"/> Use Long Part (Small Inventory)	<input checked="" type="checkbox"/> Use Long XRef		
Maximum Part Length	Maximum Rev Length	Maximum Customer Part Length	Maximum Manufacturer Part Length	Maximum User Part Length
35	7	35	35	35

- The content of the view must be updated each time the user Open or Drag and Drop a .CSV file.
- The content of the view must be exportable in the same way that the content of the "Reference Designator Maintenance" view can be exported



Reference Designator Maintenance (QUA)

Selected BOM: 00640-14PTB DIV

Export

Text Import - [00640-14PTB%20DIV%20%20%20%20%20\_BOM\_E...

Import

Character set: Unicode (UTF-8)

Language: Default - English (USA)

From row: 1

Separator Options

☐ Fixed width ☒ Separated by

☒ Tab ☒ Comma ☒ Semicolon ☐ Space ☐ Other

☐ Merge delimiters ☐ Trim spaces String delimiter: "

Other Options

☐ Format quoted field as text ☐ Detect special numbers

Fields

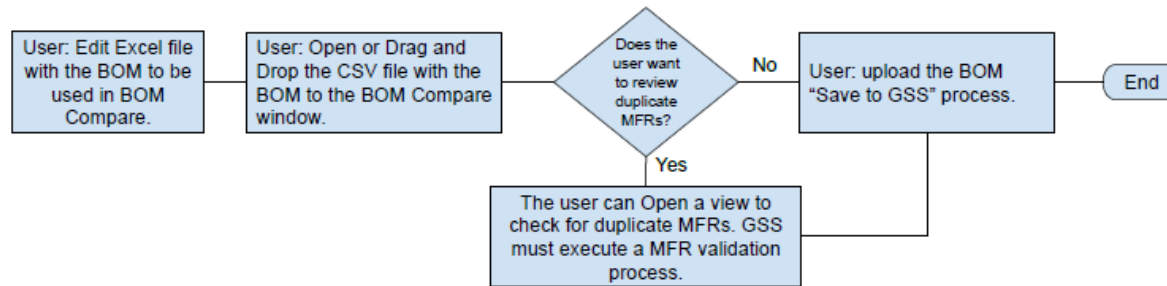
Column type: Standard

Part	Ref designator

- The Manufacturer Name validation is not required and should not condition the validation process for duplicate Manufacturer Part Numbers.

## Flow chart

### General Process



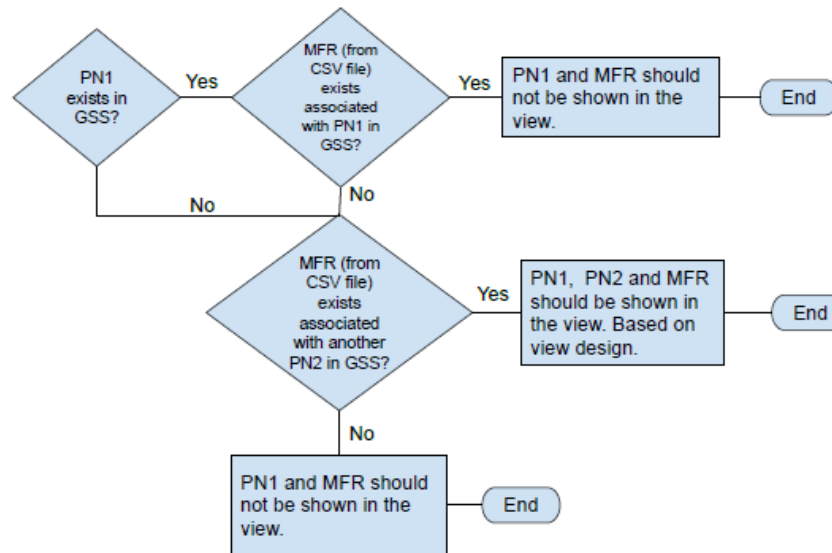
#### Reference:

MFR = Manufacturer Part Number  
 PN1 = Part Number from CSV file.  
 PN2 = Part Number previously registered in GSS  
 GSS = Global Shop Solution

#### Note:

- We have activated "Long Part Number"
- We have activated "Long XRef" (35 characters)

### Validation Process



## BOM Compare window and View Design

### BOM Compare window

BOM Compare - QUA

Comparing 280012 IPG BOARD Rev. AC

☒ Part not found in GSS
 ☒ Part not found in File
 ☒ Part has changes
 ☐ Part exists in some locations
 ☒ Part exists in all locations

**Bold Text:** Value is from Inventory Master    *Italic Text:* Value will not be updated on upload

Imported BOM							Existing Global Shop BOM								
Part No.	Rev	Inv.	Description	Qty	UM	Costst	Src	Part No.	Rev	Inv.	Description	Qty	UM	Costst	Src
280012 IPG BOARD	AC			1	EA	\$0.00	MJ								
0000-010955			CAP CE...	4	EA	\$1.00	PS								
0000-015287			CAP CE...	20	EA	\$1.00	PS								
0000-017127			CAP CE...	2	EA	\$1.00	PS								

Save to GSS   
 ☐ Create Child Parts   
 ☐ Create Parent Parts   
 At location:   
 MFR Duplicates   
 All Values from File   
 Set all to File

## View

Duplicate Manufacturer Part Numbers (QUA)
— ✕

**Selected BOM**

Export

Find
Clear

Sequence	BOM Part	BOM Part Desc.	Manuf. Part Numb.	GSS Part	GSS Part Desc.

**BOM:** BOM Parent (Finished Good)

**Sequence:** Sequence Number that the Part Number has in .CSV file with the BOM.

PartNo	Revision	Description	AltDescription1	AltDescription2	DescExtra	Quantity	IssueUM	ConsumptionConv	UM	Cost	Source	Drawing	Leadtime	Level	Location	Memo1	Memo2	Parent	Productline	Sequence	SortCode	Tag	Category	MFR_NAME	MFR_PART_NO	PREFERRED	APPROVED	BOM_COMMENTS
280012	AC	IPG BOARD																										
0000-010955		X cap CER 1UF 25V 0402 X5R 10%				4			EA	1								280012 IPG BOARD AC	RM	10				TDK2	C1005X5R1E105K050BC123456	Y	Y	C1, C2, C3
0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%				20			EA	1								280012 IPG BOARD AC	RM	20				SAMSUNG	CL05A475M05NUNC	Y	Y	R3, R5
0000-017127		CAP CER 330PF 50V 0402 C0G/NP0			1%	2			EA	1								280012 IPG BOARD AC	RM	30				MURATA	GRM1555C1H331FA01J	Y	Y	C4, C5, C10

**BOM Part:** Part Number from the CSV file that has the MFR associated with other Part Numbers in GSS.

PartNo	Revision	Description	AltDescription1	AltDescription2	DescExtra	Quantity	IssueUM	ConsumptionConv	UM	Cost	Source	Drawing	Leadtime	Level	Location	Memo1	Memo2	Parent	Productline	Sequence	SortCode	Tag	Category	MFR_NAME	MFR_PART_NO	PREFERRED	APPROVED	BOM_COMMENTS
280012	IPG BOARD	AC																										
0000-010955		Xcap CER 1UF 25V 0402 X5R 10%				4			EA	1								280012 IPG BOARD AC	RM		10			TDK2	C1005X5R1E105K050BC123456	Y	Y	C1, C2, C3
0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%				20			EA	1								280012 IPG BOARD AC	RM		20			SAMSUNG	CL05A475M05NUNC	Y	Y	R3, R5
0000-017127		CAP CER 330PF 50V 0402 C0G/NP0			1%	2			EA	1								280012 IPG BOARD AC	RM		30			MURATA	GRM1555C1H331FA01J	Y	Y	C4, C5, C10

**BOM Part Desc.:** Part Number description from the CSV file that has the MFR associated with other Part Numbers in GSS. Columns: **Description** and **DescExtra**.

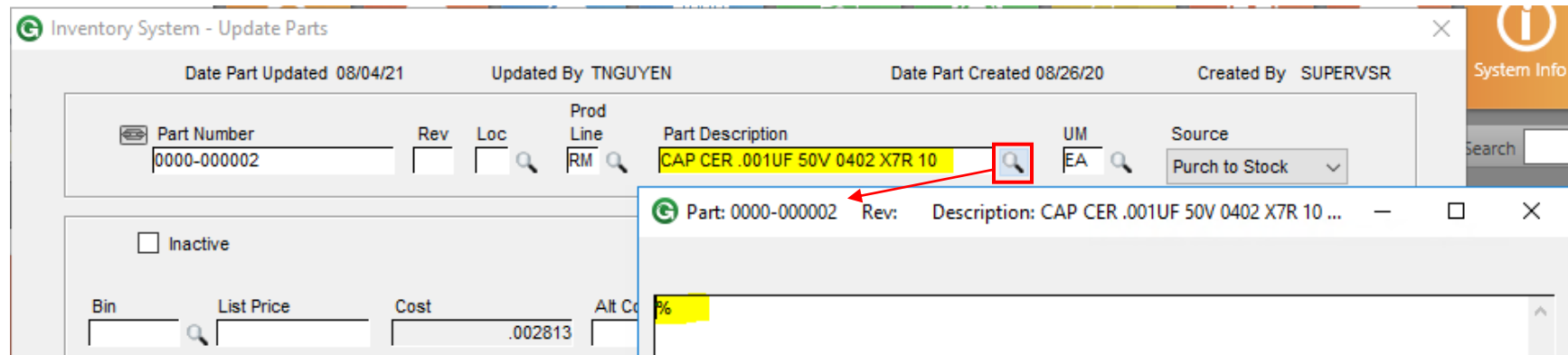
PartNo	Revision	Description	AltDescription1	AltDescription2	DescExtra	Quantity	IssueUM	ConsumptionConv	UM	Cost	Source	Drawing	Leadtime	Level	Location	Memo1	Memo2	Parent	Productline	Sequence	SortCode	Tag	Category	MFR_NAME	MFR_PART_NO	PREFERRED	APPROVED	BOM_COMMENTS
280012 IPG BOARD	AC																											
0000-010955		Xcap CER 1UF 25V 0402 X5R 10%				4			EA	1								280012 IPG BOARD AC	RM	10				TDK2	C1005X5R1E105K050BC123456	Y	Y	C1, C2, C3
0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%				20			EA	1								280012 IPG BOARD AC	RM	20				SAMSUNG	CL05A475MO5NUNC	Y	Y	R3, R5
0000-017127		CAP CER 330PF 50V 0402 C0G/NPO			1%	2			EA	1								280012 IPG BOARD AC	RM	30				MURATA	GRM1555C1H331FA01J	Y	Y	C4, C5, C10

**Manuf. Part Num.:** Manufacturer Part Number from the CSV file that is associated with other Part Numbers in GSS.

PartNo	Revision	Description	AltDescription1	AltDescription2	DescExtra	Quantity	IssueUM	ConsumptionConv	UM	Cost	Source	Drawing	Leadtime	Level	Location	Memo1	Memo2	Parent	Productline	Sequence	SortCode	Tag	Category	MFR_NAME	MFR_PART_NO	PREFERRED	APPROVED	BOM_COMMENTS
280012 IPG BOARD	AC																											
0000-010955		Xcap CER 1UF 25V 0402 X5R 10%				4			EA	1								280012 IPG BOARD AC	RM	10				TDK2	C1005X5R1E105K050BC123456	Y	Y	C1, C2, C3
0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%				20			EA	1								280012 IPG BOARD AC	RM	20				SAMSUNG	CL05A475MO5NUNC	Y	Y	R3, R5
0000-017127		CAP CER 330PF 50V 0402 C0G/NPO			1%	2			EA	1								280012 IPG BOARD AC	RM	30				MURATA	GRM1555C1H331FA01J	Y	Y	C4, C5, C10

**GSS Part:** Part number from GSS that is associated with the MFR will be uploaded from the CSV file of the BOM. It can be more than one.

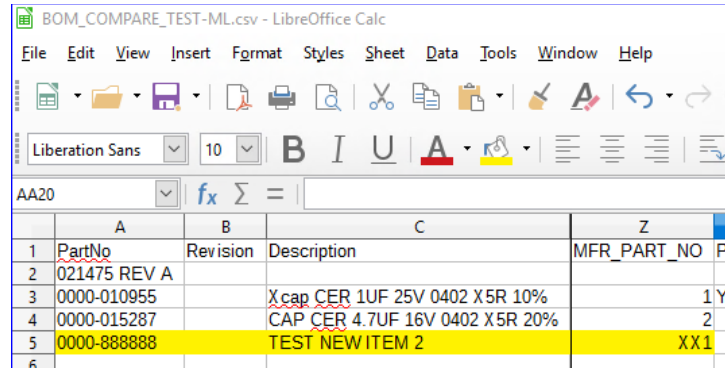
**GSS Part Desc.:** Part number description from GSS that is associated with the MFR will be uploaded from the CSV file of the BOM. The description of the Part Number is composed of the union of the fields: Part Description (INVENTORY\_MSTR → DESCRIPTION) and Extra Text (INV\_EXTRA\_TEXT → TEXT)



**Note:** Each column must contain the filter and sort option.

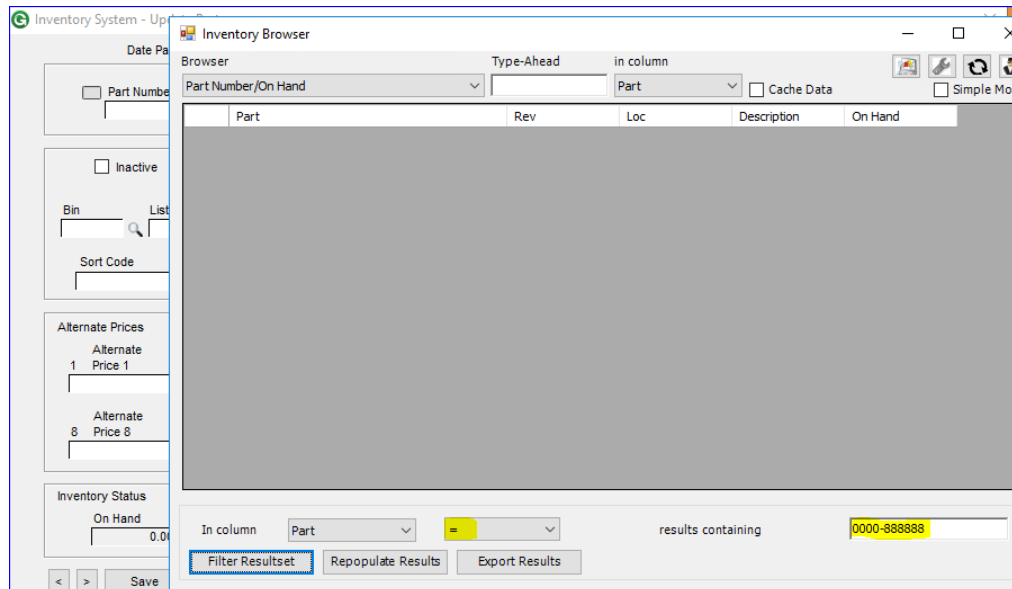
## Examples

**Case 1.-** CSV File. Part Number: 0000-888888 (New) Manufacturer Part Number: XX1 (New)



PartNo	Revision	Description	MFR_PART_NO	PR
021475	REV A			
0000-010955		Xcap CER 1UF 25V 0402 X5R 10%		1 Y
0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%		2
0000-888888		TEST NEW ITEM 2	XX1	

Inventory Master / XRef view



Inventory System - Up Inventory Browser

Browser: Part Number/On Hand Type-Ahead in column: Part

Part: 0000-888888

Rev: Loc: Description: On Hand:

Alternate Prices:

Alternate Price 1:

Alternate Price 8:

Inventory Status:

On Hand: 0.00

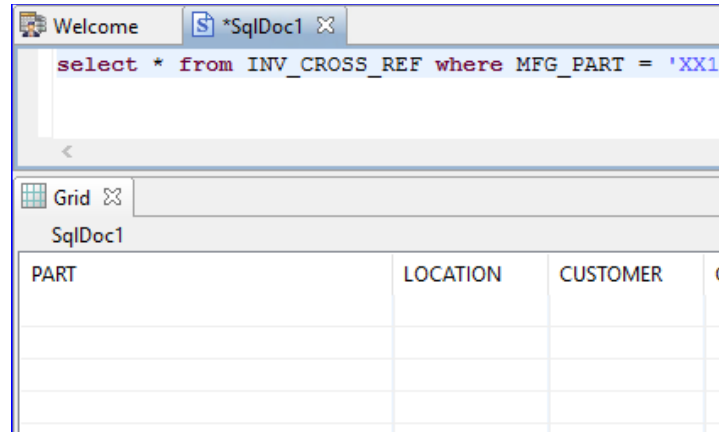
results containing: 0000-888888

Filter Resultset Repopulate Results Export Results

Part Number "0000-888888" does not exist in GSS.



Script to validate if the Manufacturer Part Number "XX1" exists in GSS associated with other Part Numbers



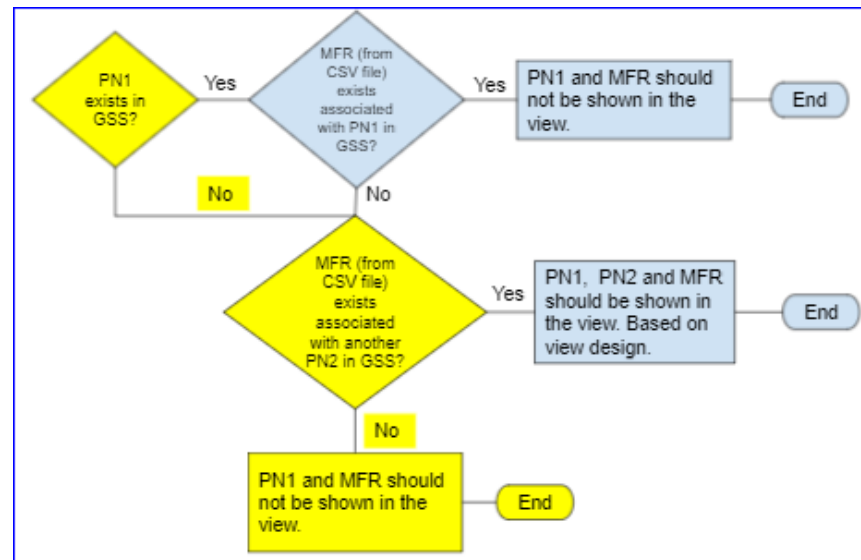
```
select * from INV_CROSS_REF where MFG_PART = 'XX1'
```

PART	LOCATION	CUSTOMER	C

Manufacturer Part Number "XX1" does not exist in GSS.

#### Conclusion:

Part Number "0000-888888" and Manufacturer Part Number "XX1" **should not be shown in the "View"**.



**Case 2.-** CSV File. Part Number: 0000-888888 (It already exists in GSS) Manufacturer Part Number: XX1 (It already exists in GSS)

BOM\_COMPARE\_TEST-ML.csv - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sans 10 B I U A

AA20 fx Σ =

	A	B	C	Z	
1	PartNo	Revision	Description	MFR_PART_NO	PR
2	021475 REV A				
3	0000-010955		Xcap CER 1UF 25V 0402 X5R 10%		1 Y
4	0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%		2
5	0000-888888		TEST NEW ITEM 2	XX1	
6					

Inventory Master / XRef view

Inventory System - Update Parts

Date Part Updated 08/12/21 Updated By MLAMARDO Date Part Created 08/12/21 Created By MLAMARDO

Part Number 0000-888888 Rev Loc Prod Line RM Part Description TEST NEW ITEM 2 UM EA Source Purch to Job

Part Cross Reference Maintenance

Part Number 0000-888888 Rev Loc Part Description TEST NEW ITEM 2

Customer Customer Name Customer Part Save

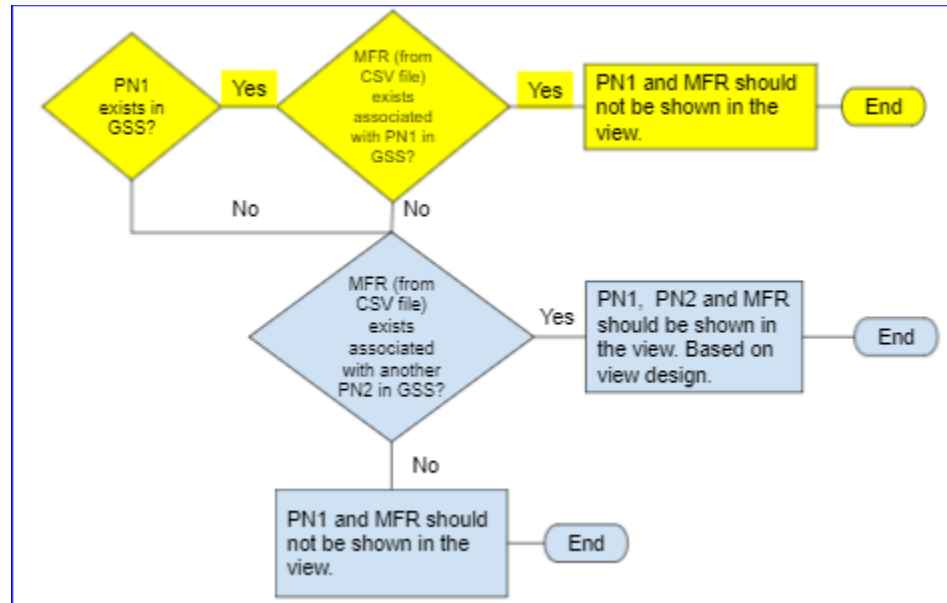
Vendor Manufacturer's Part Manufacturer's Name Status Delete

User Default Title Comment Clear

Customer	Customer Name	Customer Part	Vendor	Vendor Name	Manufacturer's Part	App	Default	Imme	Status	Manufacturer's Name
					XX1					MURATA

**Conclusion:**

Part Number "0000-888888" and Manufacturer Part Number "XX1" **should not be shown in the "View"**.



**Case 3.-** CSV File. Part Number: 0000-888888 (It already exists in GSS) Manufacturer Part Number: XX1 (New for that Part Number but it already exists in GSS associated with another Part Number)

BOM\_COMPARE\_TEST-ML.csv - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sans 10 B I U A

AA20 fx Σ =

	A	B	C	Z	
1	PartNo	Revision	Description	MFR_PART_NO	PR
2	021475 REV A				
3	0000-010955		Xcap CER 1UF 25V 0402 X5R 10%		1 Y
4	0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%		2
5	0000-888888		TEST NEW ITEM 2	XX1	
6					

Inventory Master / XRef view

Inventory System - Update Parts

Date Part Updated 08/12/21 Updated By MLAMARDO Date Part Created 08/12/21 Created By MLAMARDO

Part Number 0000-888888 Rev Loc Prod Line RM Part Description TEST NEW ITEM 2 UM EA Source Purch to Job

Part Cross Reference Maintenance

Part Number 0000-888888 Rev Loc Part Description TEST NEW ITEM 2

Customer Customer Name Customer Part Save

Vendor Manufacturer's Part Manufacturer's Name Status Delete

User Default Title Comment Clear

Customer	Customer Name	Customer Part	Vendor	Vendor Name	Manufacturer's Part	App	Default	Imme	Status	Manufacture

Script to validate if the Manufacturer Part Number "XX1" exists in GSS associated with other Part Numbers

Welcome | \*SqlDoc1

```
select * from INV_CROSS_REF where MFG_PART = 'XX1'
```

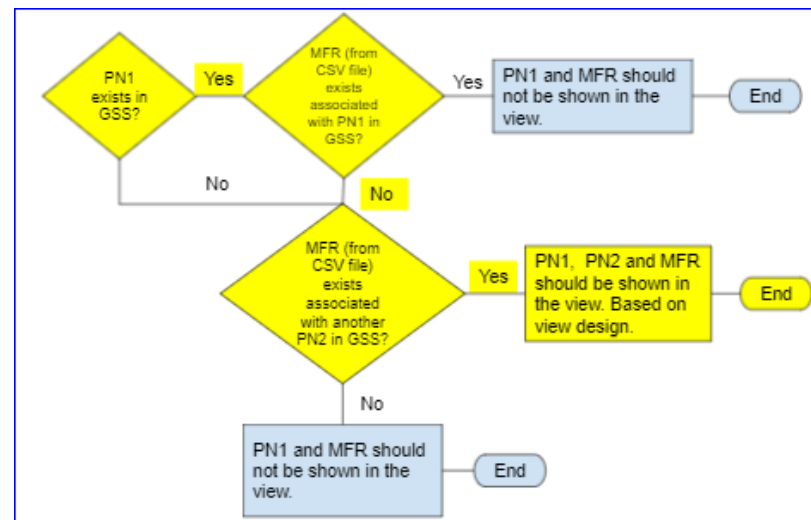
Grid

SqlDoc1

PART	LOCATION	CUSTOMER	CUSTOMER_PART	VENDOR	MFG_PART	MFG_NAME
0000-017868					XX1	Murata
0000-019130					XX1	MURATA

#### Conclusion:

Part Number "0000-888888", Manufacturer Part Number "XX1", and Part Numbers "0000-017868" & "0000-019130", **should be shown in the "View"**.



**Duplicate Manufacturer Part Numbers (QUA)**

Selected BOM

021475 REV A

Export

Enter text to search... Find Clear

Sequence	BOM Part	BOM Part Desc.	Manuf. Part Numb.	GSS Part	GSS Part Desc.
30	0000-888888	TEST NEW ITEM 2	XX1	0000-017868	TEST NEW ITEM-2
30	0000-888888	TEST NEW ITEM 2	XX1	0000-019130	TEST NEW ITEM 02

**Note:** The image is just an example. The width of the columns must be consistent with the size of each of the fields associated with it. The Part Numbers “0000-017868” and “0000-019130” are shown in the view regardless of whether the Manufacturer Names are different.

**Case 4.-** CSV File. Part Number: 0000-888888 (It already exists in GSS) Manufacturer Part Number: XX1 (New for that Part Number but it does not exist in GSS associated with another Part Number)

BOM\_COMPARE\_TEST-ML.csv - LibreOffice Calc

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sans 10 B I U A

AA20 fx Σ =

	A	B	C	Z	
	PartNo	Revision	Description	MFR_PART_NO	PR
1	021475 REV A				
2	0000-010955		Xcap CER 1UF 25V 0402 X5R 10%		1Y
3	0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%		2
4	0000-888888		TEST NEW ITEM 2	XX1	
5					
6					

## Inventory Master / XRef view

**Inventory System - Update Parts**

Date Part Updated 08/12/21      Updated By MLAMARDO      Date Part Created 08/12/21      Created By MLAMARDO

Part Number: 0000-888888    Rev:    Loc:    Prod Line: RM    Part Description: TEST NEW ITEM 2    UM: EA    Source: Purch to Job

**Part Cross Reference Maintenance**

Part Number: 0000-888888    Rev:    Loc:    Part Description: TEST NEW ITEM 2

Customer:    Customer Name:    Customer Part:    Save

Vendor:    Manufacturer's Part:    Manufacturer's Name:    Status:    Delete

User Default Title:    Comment:    Clear

Customer	Customer Name	Customer Part	Vendor	Vendor Name	Manufacturer's Part	App	Default	Imme	Status	Manufacture

Script to validate if the Manufacturer Part Number "XX1" exists in GSS associated with other Part Numbers

Welcome    \*SqlDoc1

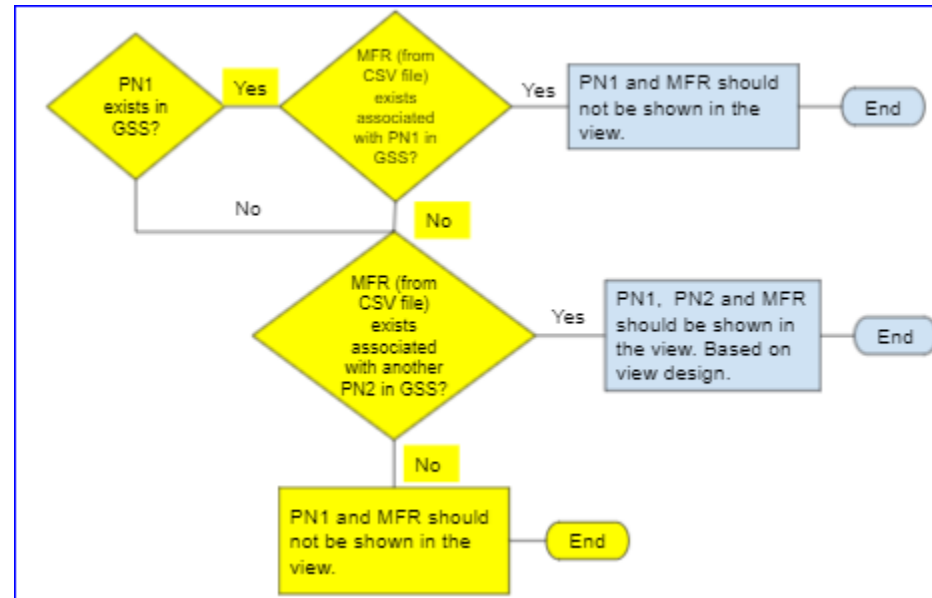
```
select * from INV_CROSS_REF where MFG_PART = 'XX1'
```

Grid    SqlDoc1

PART	LOCATION	CUSTOMER	CUSTOMER

### Conclusion:

Part Number “0000-888888” and Manufacturer Part Number “XX1” **should not be shown in the “View”**.

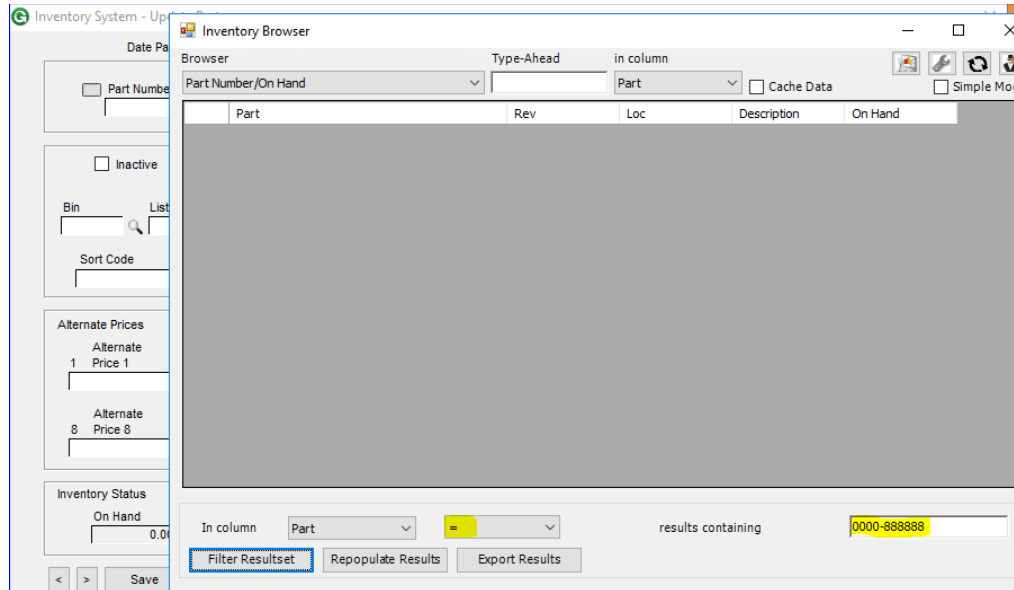


**Case 5.-** CSV File. Part Number: 0000-888888 (New) Manufacturer Part Number: XX1 (New for that Part Number but it already exists in GSS associated with another Part Number)

BOM_COMPARE_TEST-ML.csv - LibreOffice Calc					
File Edit View Insert Format Styles Sheet Data Tools Window Help					
Liberation Sans 10 B I U A					
AA20 fx Σ =					
	A	B	C	Z	PR
1	PartNo	Revision	Description	MFR_PART_NO	
2	021475	REV A			
3	0000-010955		Xcap CER 1UF 25V 0402 X5R 10%		1 Y
4	0000-015287		CAP CER 4.7UF 16V 0402 X5R 20%		2
5	0000-888888		TEST NEW ITEM 2	XX1	
6					



## Inventory Master / XRef view



The screenshot shows the 'Inventory Browser' window. The 'Part Number/On Hand' field is set to 'Part'. The 'In column' dropdown is set to 'Part'. The 'Cache Data' checkbox is unchecked. The 'Simple Mode' checkbox is checked. The 'Part' field is highlighted in yellow. The 'Filter Resultset' button is highlighted in blue. The 'Repopulate Results' and 'Export Results' buttons are also visible.

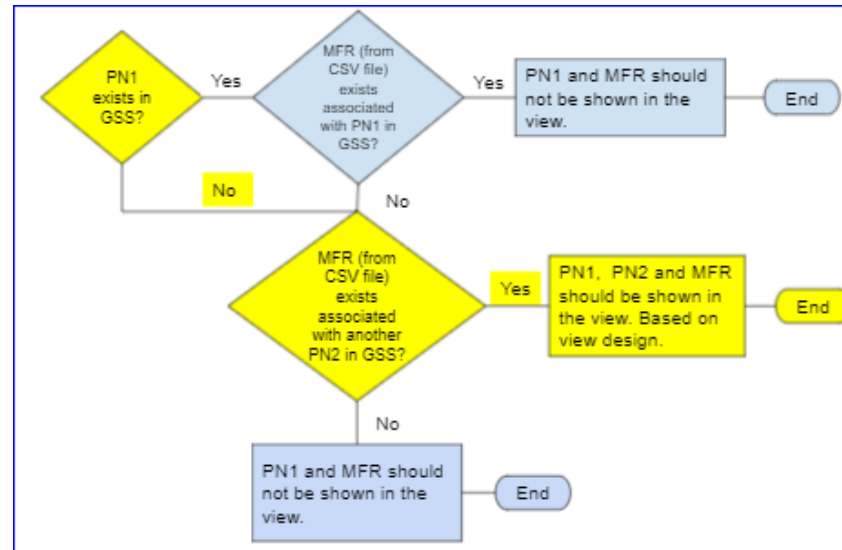
Part Number "0000-888888" does not exist in GSS.

Script to validate if the Manufacturer Part Number "XX1" exists in GSS associated with other Part Numbers

Welcome						
*SqlDoc1						
select * from INV_CROSS_REF where MFG_PART = 'XX1'						
Grid						
SqlDoc1						
PART	LOCATION	CUSTOMER	CUSTOMER_PART	VENDOR	MFG_PART	MFG_NAME
0000-017868					XX1	Murata
0000-019130					XX1	MURATA

### Conclusion:

Part Number “0000-888888”, Manufacturer Part Number “XX1”, and Part Numbers “0000-017868” & “0000-019130”, **should be shown in the “View”**.



Duplicate Manufacturer Part Numbers (QUA)					
Selected BOM					
021475 REV A					
Export					
Enter text to search... Find Clear					
Sequence	BOM Part	BOM Part Desc.	Manuf. Part Numb.	GSS Part	GSS Part Desc.
30	0000-888888	TEST NEW ITEM 2	XX1	0000-017868	TEST NEW ITEM-2
30	0000-888888	TEST NEW ITEM 2	XX1	0000-019130	TEST NEW ITEM 02

**Note:** The image is just an example. The width of the columns must be consistent with the size of each of the fields associated with it. The Part Numbers “0000-017868” and “0000-019130” are shown in the view regardless of whether the Manufacturer Names are different.