List Views

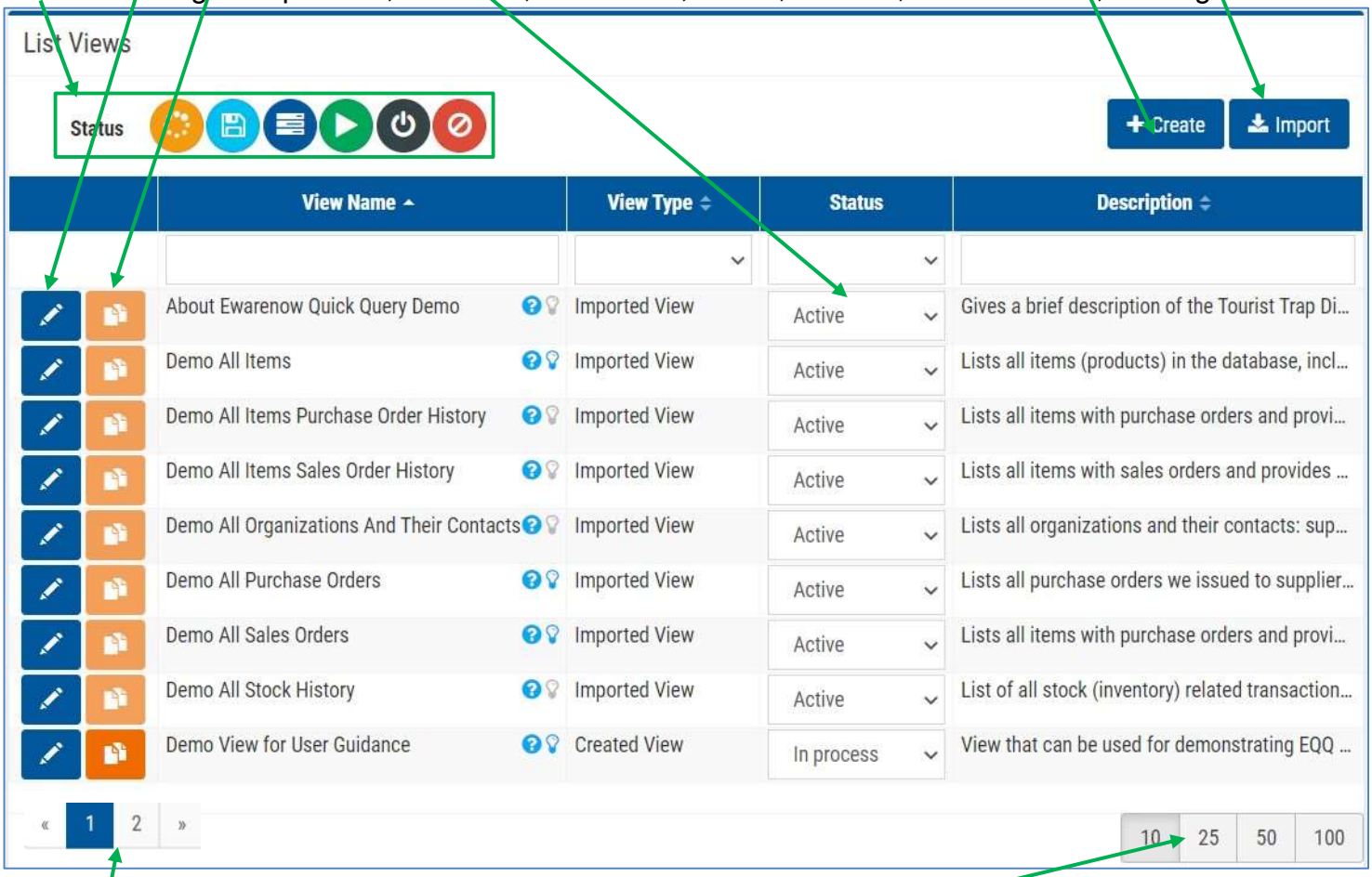
MANAGE VIEWS

Click/tap Manage Views on the menu bar or on the home page. The list of views will appear.

You can: Edit, Clone, Change Status

Create or Import new view

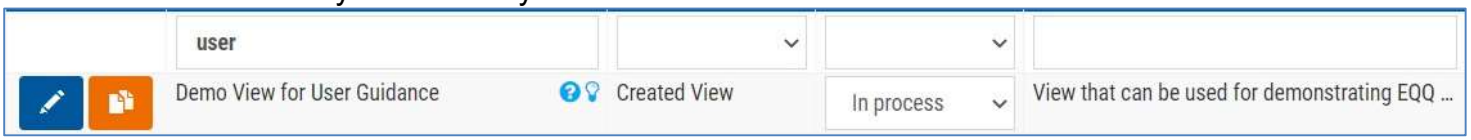
Status left to right: In process, All saved, Generated, Active, Inactive, Void. Click off; click again on.



You may want to click/tap to show more rows at a time

Or click/tap through the numbered blocks to find the view you want.

And the best choice may be to use dynamic search like this



Create View – Basic Information

A Structured Query Language (SQL) database consists of a set of tables with rows and columns of data and links relating the tables to one another. (and a lot of other details).

We look at a business document, a purchase order for example, as a single, complete, self-contained thing. But the document's content may be stored in several tables in an SQL database.

An SQL View is a combination 'on electronic paper' of two or more tables. It behaves like a very extensive table with hierarchical data flattened out. Its content only exists when it is being executed; and does not actually exist on a data storage device.

When setting out to create a View, it's advisable to think carefully about its purpose. That will help guide how you construct it.

This user wants to tie everything together from a customer to its sales orders, the items ordered from Tourist Trap Distribution and onward to the suppliers from which they were ordered and received.

Enter a View Name, View Description, and Optional View Tip. Then click/tap Save to be able to proceed to the other steps in the progress bar.

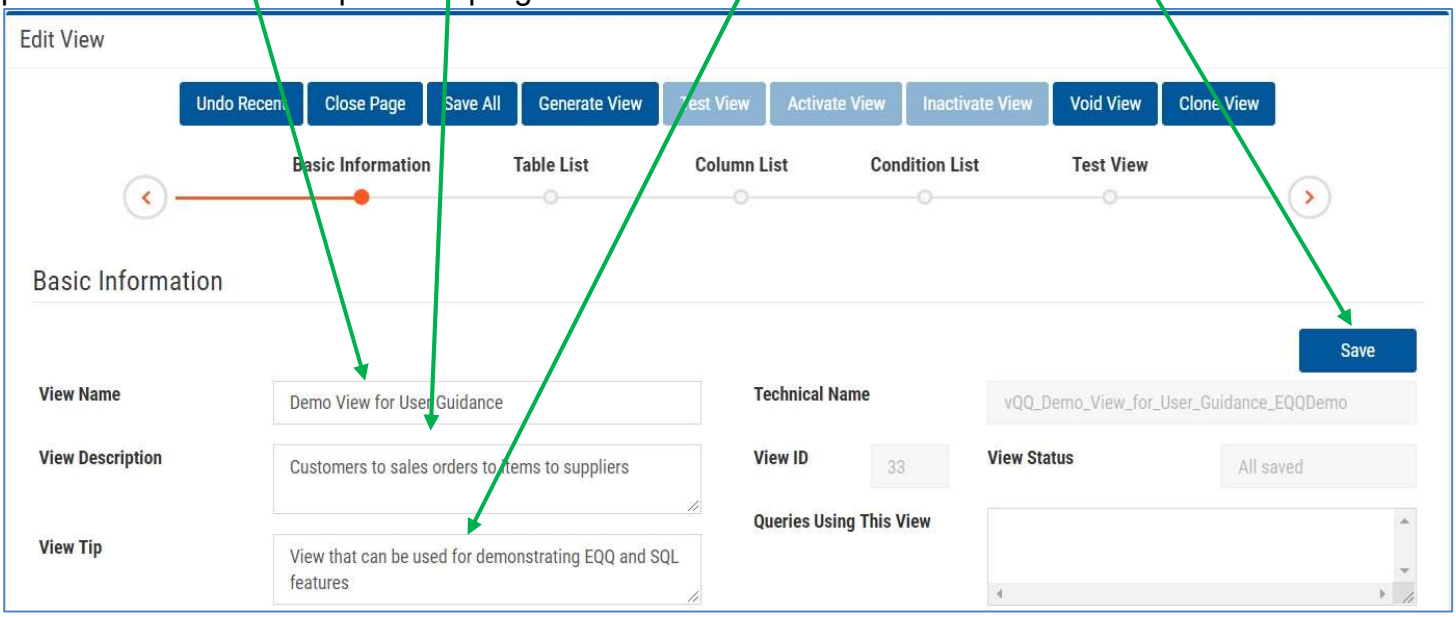
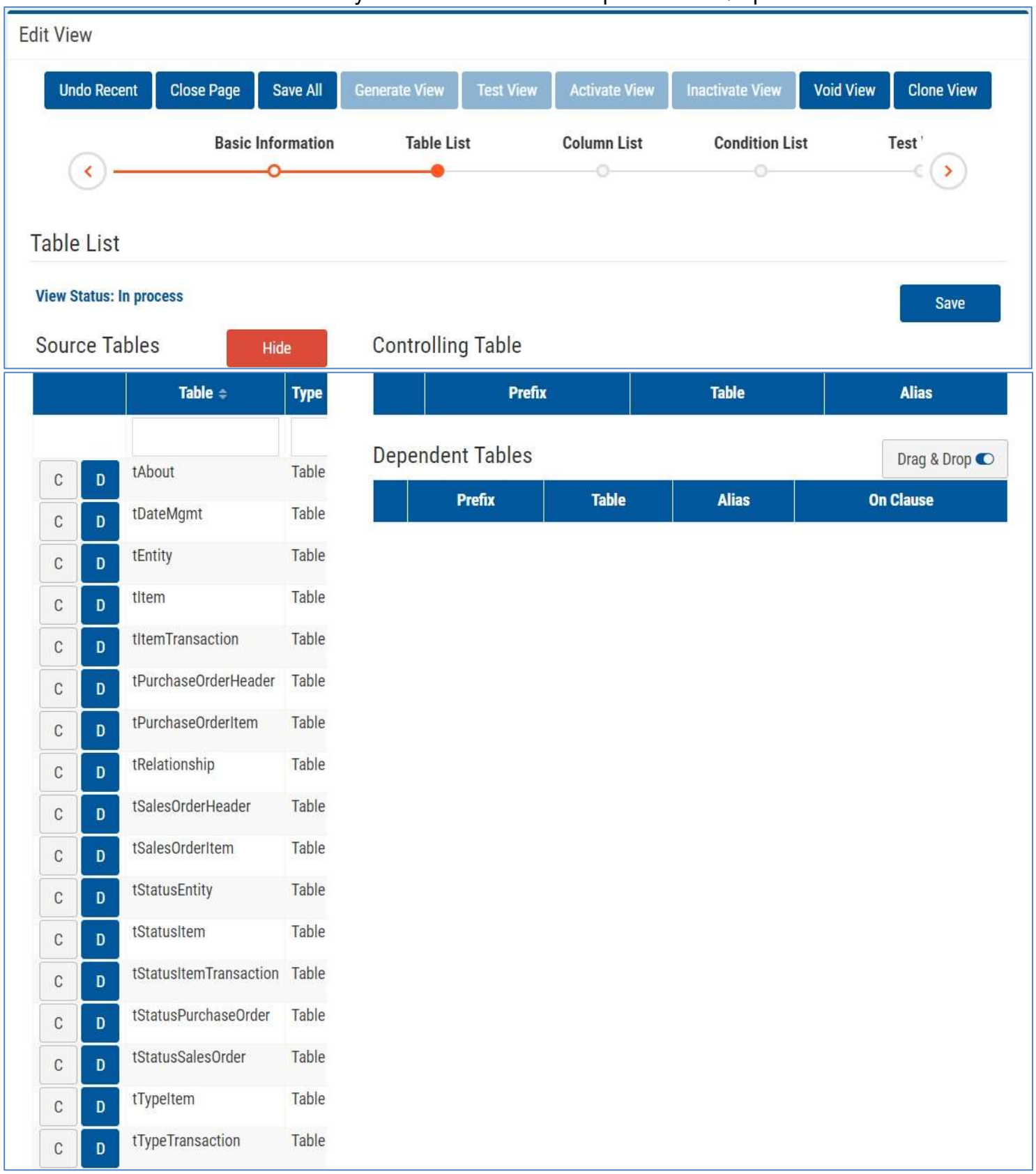


Table List

The EQQDemo database contains 15 data tables, tEntity through tTypeTransaction listed below. They support the hypothetical Tourist Trap Distribution company's business. Each table has a Primary Key (PK). Many of the tables have Foreign Keys (FKs) linking them to other tables' PKs.

First click/tap C to choose the Controlling table. Then click/tap D to choose all Dependent tables. They will each be linked to one above it by an FK → PK relationship. Then click/tap Hide.



Here are the results of selecting tables for this view. The Source Tables are hidden, but can be viewed again if the user clicks/taps the Show Source Tables button
The controlling table is tEntity with C as its alias
Dependent table 1 is tRelationship with the alias CR. It simply links an organization (Customer) to its contact(s): dependent table 2 which is tEntity with the alias CC.
Dependent tables 3 and 4 are the sales orders placed by the customer with aliases SO and SOI
Dependent table 5 is the Tourist Trap Distribution's list of all tItem records with the alias Item.
Dependent tables 6 is a lookup table tTypeItem as TI
Dependent table 7 is tEntity again, this time as S
Dependent tables 8 and 9 are tRelationship as SR and tEntity as SC to obtain suppliers' contacts.

Edit View

Undo Recent | Close Page | Save All | Generate View | Test View | Activate View | Inactivate View | Void View | Clone View

Basic Information — Table List — Column List — Condition List — Test View

Table List

View Status: In process

Show Source Tables | Save

Controlling Table

	Prefix	Table	Alias
	From	tEntity	C

Dependent Tables

Drag & Drop

	Prefix	Table	Alias	On Clause
1	Left Outer Join	tRelationship	CR	[C].[EntityId]=[CR].[OrgId]
2	Left Outer Join	tEntity	CC	[CR].[ContactId]=[CC].[EntityId]
3	Left Outer Join	tSalesOrderHeader	SO	[C].[EntityId]=[SO].[ShipToId]
4	Left Outer Join	tSalesOrderItem	SOI	[SO].[SalesOrderHeaderId]=[SOI].[SalesOrderHeaderId]
5	Left Outer Join	tItem	Item	[SOI].[OurItemCode]=[Item].[OurItemCode]
6	Left Outer Join	tTypeItem	TI	[Item].[TypeItemId]=[TI].[TypeItemId]
7	Left Outer Join	tEntity	S	[Item].[SupplierId]=[S].[EntityId]
8	Left Outer Join	tRelationship	SR	[S].[EntityId]=[SR].[OrgId]
9	Left Outer Join	tEntity	SC	[SR].[ContactId]=[SC].[EntityId]

10 | 25 | 50 | 100

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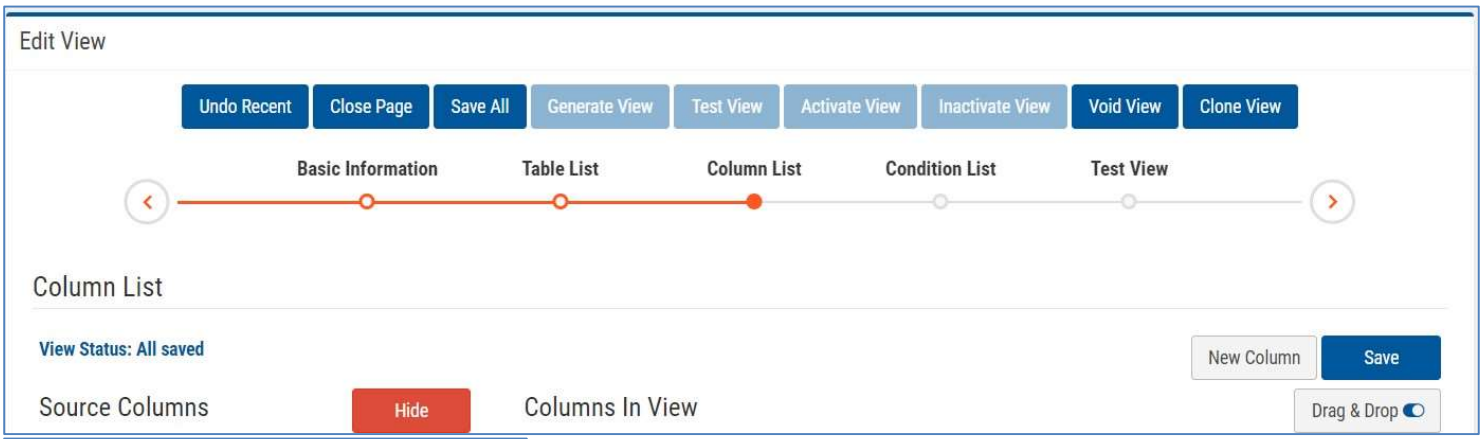
Click/tap the link to dependent table 3 to see exactly what ties this pair of tables together for purposes of this view. When the database contains well-defined and unique FK to PK constraints, EQQ can use them as it did here. In other cases, the user creating the view needs to help.

Left Table	Left Column	Left Expression	Right Table	Right Column	Right Expression
tEntity AS C	[EntityId]	[C].[EntityId]	tSalesOrderHe	[ShipToId]	[SO].[ShipToId]

Column List

In this view, the user is using 6 tables, some multiple times. So, there are 10 sets of source columns that can be used in the column list.



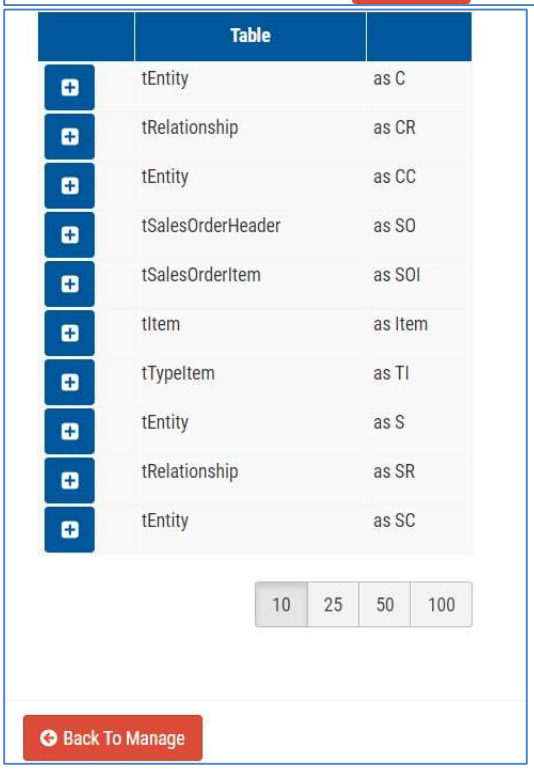


	Table	
+	tEntity	as C
+	tRelationship	as CR
+	tEntity	as CC
+	tSalesOrderHeader	as SO
+	tSalesOrderItem	as SOI
+	tItem	as Item
+	tTypeItem	as TI
+	tEntity	as S
+	tRelationship	as SR
+	tEntity	as SC

These are the columns the user chose from the 10 sets of source columns

	Alias	Column	New Name	Settings
A	C	OrgOrLastName	Customer	
B	C	Address1	CAddress1	
C	C	Address2	Caddress2	
D	C	City	CCity	
E	C	StateProv	CStateProv	
F	C	PostalCode	CPostalCode	
G	C	Country	CCountry	
H	C	EntityId	CustomerPK	
I	C	StatusId	CustomerStatusID	
J	C	IsCustomer		
K	CR	RoleOrTitle	CustomerContactRole	
L	CC	OrgOrLastName	CCLastName	
M	CC	FirstName	CCFirstName	
N	CC	EntityId	ContactPK	
O	CC	StatusId	ContactStatusID	
P	CC	IsContact	IsCustomerContact	
Q	SO	SalesOrderHeaderId		
R	SO	DateOrdered		
S	SO	DateDeliveryRequested		
T	SO	StatusId	SOStatusID	
U	SOI	SalesOrderItemId		
V	SOI	StatusId	SOIStatusID	
W	SOI	TotalQtyShipped		
X	SOI	UnitPrice		
Y	SOI	DateLastShipped		
Z	Item	OurItemCode		
AA	TI	TypeItem		
AB	Item	OurItemName		
AC	Item	ItemDescription		
AD	Item	PackQty		
AE	S	EntityId	SupplierPK	
AF	S	OrgOrLastName	Supplier	
AG	S	IsSupplier		
AH	S	Address1	SAddress1	
AI	S	Address2	Saddress2	
AJ	S	City	SCity	
AK	S	StateProv	SStateProv	

AL				S	PostalCode	SPostalCode
AM				S	Country	Scountry
AN				SR	RoleOrTitle	SupplieContactRole
AO				SC	OrgOrLastName	SCLastName
AP				SC	FirstName	SCFirstName
AQ				SC	IsContact	IsSupplierContact

10 25 50 100

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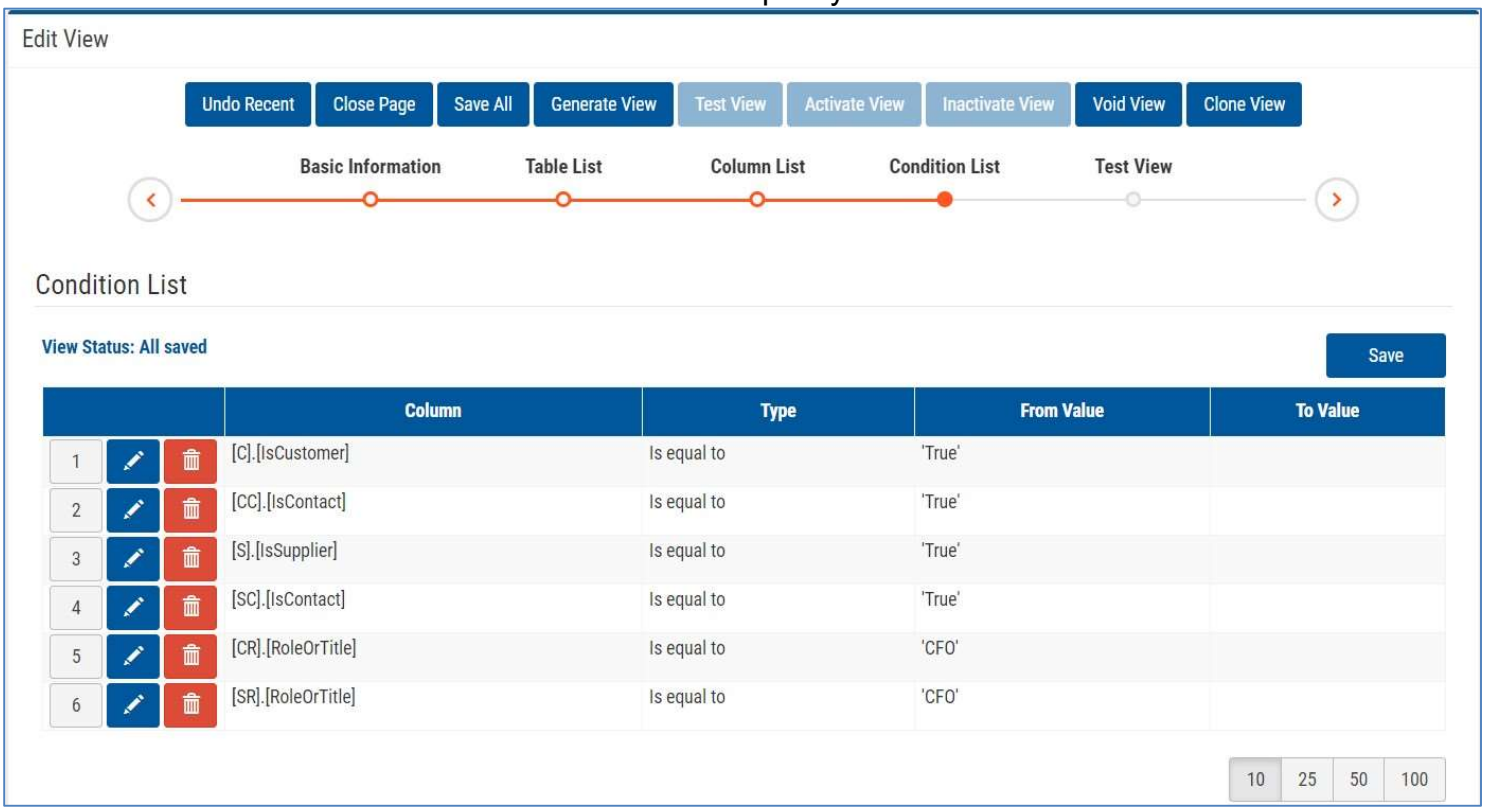
Condition List

Conditions impose limits on which rows of data will be selected.

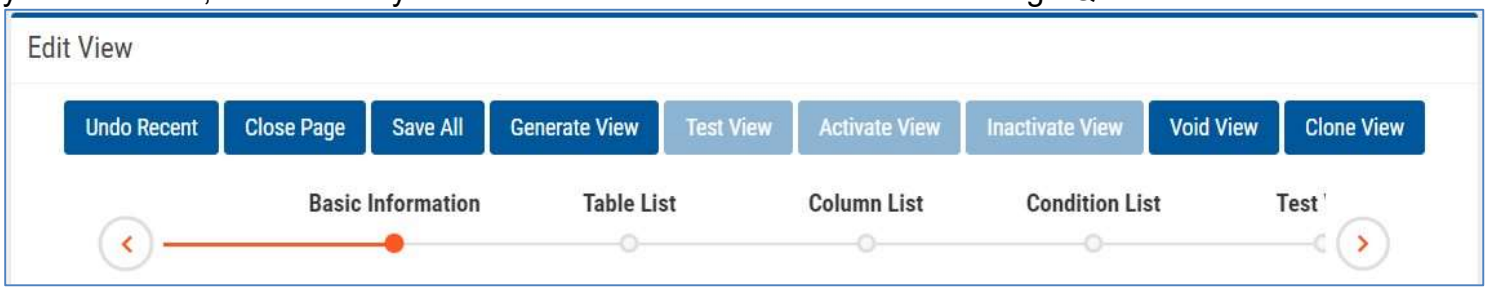
The user clicked/tapped several columns to create this list of conditions
Then the user clicked the edit button on each one to specify the exact condition to be met.



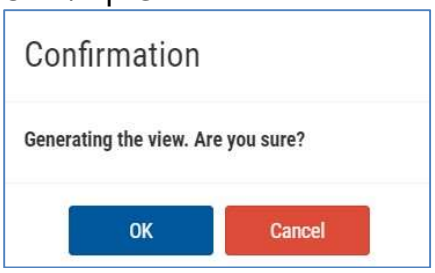
	Column	Type	From Value	To Value
1	[C].[IsCustomer]	Is equal to	'True'	
2	[CC].[IsContact]	Is equal to	'True'	
3	[S].[IsSupplier]	Is equal to	'True'	
4	[SC].[IsContact]	Is equal to	'True'	
5	[CR].[RoleOrTitle]	Is equal to	'CFO'	
6	[SR].[RoleOrTitle]	Is equal to	'CFO'	

Deploy the View

When you have completed your work on Table List, Column List, and Condition List, you can check out your work and, if satisfactory activate the view so it can be used in Manage Queries.

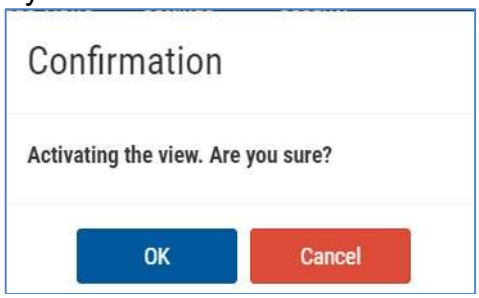


1. Click/tap Save All and receive a green success message: “All data has been saved”
    - If the Save All fails, you need to correct the problems. Common ones are errors in Table List On Clauses and missing Type and Value settings in Condition List.
2. Click/tap Generate View and receive a confirmation message



3. Click/tap OK and receive a green success message: “Generate View succeeded”
    - If the Generate View fails, you need to find and correct the errors and repeat this process.
4. Click/Tap Test View. If no SQL errors are detected, you will see the results displayed on the page
    - The SQL code you have defined with the work above has now been executed. There may be errors. Most likely they will be caused by problems with Table List On Clauses or Condition List Type and Value settings.
5. Review the results to see if the data is what you expected.
6. Scroll to the bottom and look at the number of records generated. Does it seem reasonable?
    - In this example, it’s between 250 and 260 records (10 per block with the highest block number being 26). It is a small database with few customers and few items. With data for only about two years. So it’s probably OK.
    - In earlier versions of the view it was generating over 3000 records and that was not reasonable. The problem was in the construction of the Table List.

7. If you are satisfied with the results click/tap Activate View and receive the green message:



8. Click/tap OK and receive the green message: Update Status succeeded.
9. Click/Tap Close Page to return to List Views