

World® Menu System Tips

By Rick Snell

W Editor's Note: *There's gold hidden within your JD Edwards® World menu system. OK—maybe not the \$800 per ounce variety. But there is a wealth of information in there, just waiting for you to tap in and discover. Rick Snell demonstrates how to use three key files—F0082 (Menu Master), F0082I (Menu Selections), and F0082H (Menu Selection History)—to do such tasks as determine sources of Address Book revisions, find security holes in menu masks, set security criteria for DreamWriter users, develop test scripts, and much more.*

We all take menus for granted. Admit it, you do it, too. But there is a lot of information locked away in three key files:

- 1) F0082 Menu Master
- 2) F0082I Menu Selections,
- 3) F0082H Menu Selection History.

In this article, I'll show you a quick, interactive SQL to use those files to find out what programs are called from which menus. Then we'll build on that SQL to look into menu security involving masks and the various DreamWriter calls. Finally, we'll create a test script from menu selection history, which can be used for testing after changes, to bring in a new business group, or for upgrades.

Finding Nemo (or P01051, Address Book Revisions)

Let's say that we want to find every instance in which P01051 gets called from a menu. The file to use is the F0082I, Menu Selections. We want to know the Menu and the Selection Number, the Job called, the Option Key, and the DreamWriter version. The following SQL can accomplish that task:

```
SELECT mzmni, mzseln, mztjoe, mzopky, mzver
FROM xjcdcom/f0082I WHERE mztjoe='J01051' OR mzopky='P01051'
ORDER BY mzmni, mzseln
```

Figure 1 shows part of the results.

Notice the “WHERE” portion of the SQL: “WHERE mztjoe='J01051' OR mzopky='P01051'”. This is coded this way in the event that we have a menu selection where, for example, the P01051 program is called by a different cl program than J01051 (like J0105112, for instance). Or perhaps the option key isn't present or is spelled differently (I'd be really careful about that, and even go test that menu selection, to see whether it actually worked.)

You can expand this report to include the Selection Text by joining F0083, Menu Text Overrides—a fourth file that I hadn't even mentioned yet. I'll leave out some fields for space's sake and add that in. Here's the SQL:

```
SELECT mzmni, mzseln, mztjoe, mtmntx
FROM xjcdcom/f0082I INNER JOIN xjcdcom/f0083 ON mzmni=mtmni AND
mzseln=mtseln WHERE mztjoe='J01051' OR mzopky='P01051'
ORDER BY mzmni, mzseln
```

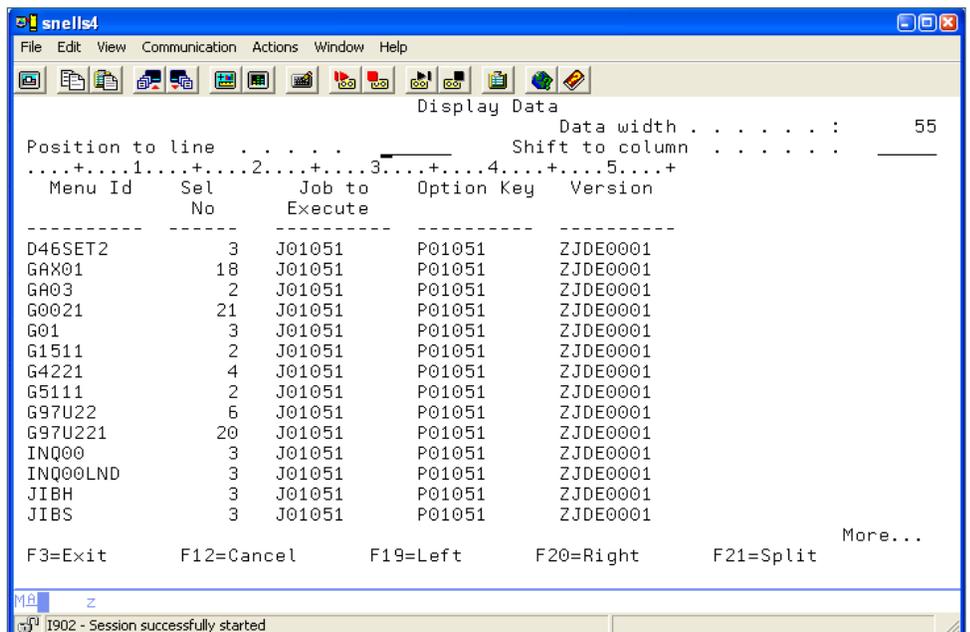


Figure 1: SQL Results

In this SQL:

- Mtmntx – this is the text field.
- INNER JOIN... ON mzmni=mtmni AND mzseln=mtseln – we are joining on menu name and menu selection because that's unique.
- INNER JOIN – records have to be present in both files in order to show up in our results. However, we could have used LEFT JOIN, and all records in the Menu Selections (F00821) would show and include any records from F0083 that matched.

The results are shown in Figure 2.

Next, we'll modify our SQL to show security information contained within the menus.

Security Information in the Menu System

There are two main security areas to talk about: Menu masks and DreamWriter calls. Let's start with menu masks.

Menu Masks

Menu masks are fun—kind of your shot at benign censorship, if you will; ultimately they make your

corporate world a bit safer. Think of menu masks like parental controls on your TV. When you exclude access to HBO or whatever programming you don't want your kids to see, you are, in effect, masking the channel selection menu. Anyone with the right credentials (in the case of your TV, probably a password) can see the masked channels. Anyone without the proper credentials cannot. Menu masks for World are essentially the same thing. Credentials associated with your User ID or JDE group either grant or deny you access to menus, or specific selections on those menus, that the security team has masked.

Menu masks for World are found in both F0082 and F00821, the Menu Master and the Menu Selections. "Why is that?", you might wonder. The set of masks found in the F0082 apply to the entire menu, and the set found in the F00821 apply to each selection from that menu.

There are five masks. The "A" mask and "K" mask (called Authorization and Knowledge, respectively) are hierarchical, meaning that a blank is the highest authority, "A" – "Z" is next, and "0" – "9" brings up the rear. The menu or menu selection itself may have a designation; for example, the menu has an "A". Only users with an "A" mask of blank or "A" will be able to

Menu Id	Sel No	Job to Execute	Option Key	Version
D46SET2	3	J01051	P01051	ZJDE0001
GAX01	18	J01051	P01051	ZJDE0001
GA03	2	J01051	P01051	ZJDE0001
G0021	21	J01051	P01051	ZJDE0001
G01	3	J01051	P01051	ZJDE0001
G1511	2	J01051	P01051	ZJDE0001
G4221	4	J01051	P01051	ZJDE0001
G5111	2	J01051	P01051	ZJDE0001
G97U22	6	J01051	P01051	ZJDE0001
G97U221	20	J01051	P01051	ZJDE0001
INQ00	3	J01051	P01051	ZJDE0001
INQ00LND	3	J01051	P01051	ZJDE0001
JIBH	3	J01051	P01051	ZJDE0001
JIBS	3	J01051	P01051	ZJDE0001

Figure 2: SQL Results

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