Developer Tips and Traps

Session ID # Quest 2013-101160

- Who is (db), and why does he get to do this session:
  - My Mom, was my Sister
- I once drove my Racing Bicycle into the grill of Lawrence Welk's "Parked" Motor Home
  - I bent the Grill
  - Some say, I bent my Personality… too
  - My fictional 'writing' name is – Ghostapha.Reider
  - I Invented the term "bOrgacle"
- If Warren Miller had been around when I was in school, I would have been famous
  - U2 is, NOW, my LEAST FAVORITE Band

Let's start out with TRAPs

Unicode – is your friend; Sort of:

My CSV looks GREAT when I open it in Notepad – why does the client say it won't import?

Try Opening it in Dos Edit:

In Unicode – each Character is two 'bytes' long. If you change the Unicode Encoding to CP1252 – your clients like you, again!
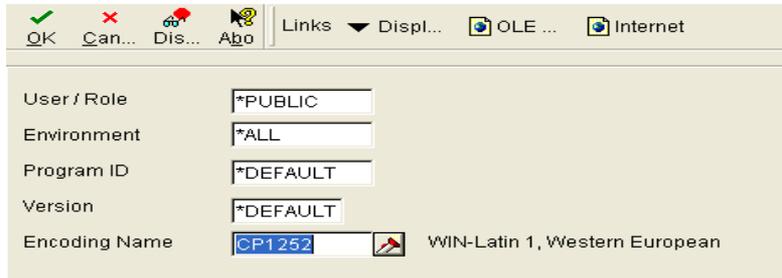
NOTE: *Oracle's OFFICIAL Stance is to **"NOT USE NOTEPAD" – (So, Use Notepad ++)***

More Unicode Fall-out

When I export a UBE to CSV – it's a mess (all jumbled into the first column)

- P93081 becomes your new friend:

- Make it all Default to CP1252

- Remember to **ACTIVATE**!

Alignment Stupidity (RDA, Not YOU!)

As a General Rule – just assume that alignment does not work on a Group Section

- CSV Exports - Grid Alignment:
  - Horizontal - 52
  - Vertical – 11
- Use the Rulers (View->User Options->Ruler)
  - Top Align
- Watch out for fields that 'Jump' to the bottom of the section! (they do that because of Top Alignment Issues)

Multi-Currency and a couple other stingers

Have you ever had a value that refused to obey your edit code?

- Take a quick look at Multicurrency

- Does your field value have a <blank> currency code?   If not – create a duplicate of your Default Currency as <blank> currency

- You may have to create it with SQL or Change the P0013 Application?

(or you could just request the users to fix the data??!)

Copying Reports – Help and Suggestions

Have you ever copied a report, including its Processing Options – and couldn't get it to run?

- Double-check to see if your copy is set for Read Only!

- If any of the functions in the report, updates 'data' – cry 'oops'

  - Does it create a Unique ID (you'd be updating)??

  - Yes, I have been burned – especially on Financial Reports.

- If your report creates a unique ID / Next Number – it cannot be Read Only

To Fix – "F9860.SIOMIT … update it to blank to remove the no update option"

~ Craig Welton

More Traps: Functions

- On a New Installation – Your "C" Check-Ins fail, and your 'Check-Out' flag is dropped:

- Ask the CNC to give you authority to the Source and Include folders on the Deployment Server (UPDATE)

Save the function, on your developer machine, before retrying the check-out
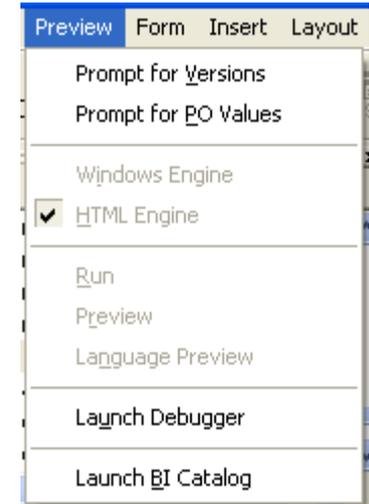
If the Check-Out Works, restore the saved files

- You copy a function from XE to 9.0 – and you can't get it to compile:

- Did you review it for Unicode Compliancy?

- Just compare a couple XE function syntaxes between the systems – you'll catch on QUICK (I didn't have access to XE at the time I put this together =D)

Application Traps

- Alignment doesn't work – regardless what you try!

- It's not a 'Developer' problem, Don't let it be your responsibility

- I can't find a 'real' workaround to stabilizing 'row' alignment

- Not Even Oracle's Base Applications are Aligned

- You can switch between Web Preview and Fat Preview in FDA (if the application is Fat Enabled

- PowerForms are WEB ONLY

- In Preview you cannot changed data

- In Run – you are using the Latest Spec

- Create an ZJDE0001 Version if there are Processing Options!!!

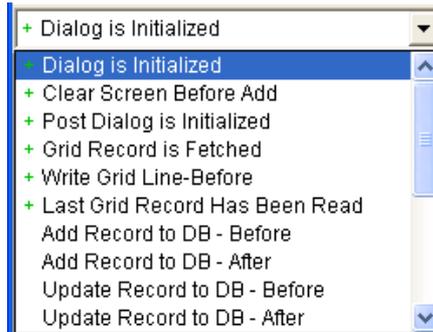- Running from Fast Path does not 'appear' to always use the latest specs

Application Traps (Power Forms)

Use Power Form(s) from the start – so you don't have to convert later

Power / Sub Forms Do Not Contain all the sections of Traditional Forms

Use Buttons as Functions to replace ER Sections

You have a Lot More Control, you have all different functionality

Header Detail

```
+ Dialog is Initialized              ▼
+ Dialog is Initialized              ▲
+ Clear Screen Before Add
+ Post Dialog is Initialized
+ Grid Record is Fetched
+ Write Grid Line-Before
+ Last Grid Record Has Been Read
  Add Record to DB - Before
  Add Record to DB - After
  Update Record to DB - Before
  Update Record to DB - After        ▼
```

Power Form

```
+ Dialog is Initialized              ▼
+ Dialog is Initialized              ▲
  Post Dialog is Initialized
+ Grid Record is Fetched
  Write Grid Line-Before
  Last Grid Record Has Been Read
  End Dialog
  Write Grid Line-After
  Call Is Alerting
  Director Back Button Clicked
  Director Next Button Clicked       ▼
```

Sub Form

```
  Grid Record is Fetched             ▼
  Grid Record is Fetched             ▲
  Write Grid Line-Before
  Last Grid Record Has Been Read
  Add Record to DB - Before
  Add Record to DB - After
  Update Record to DB - Before
  Update Record to DB - After
  Write Grid Line-After
  Post Commit
  Notified By Child                  ▼
```
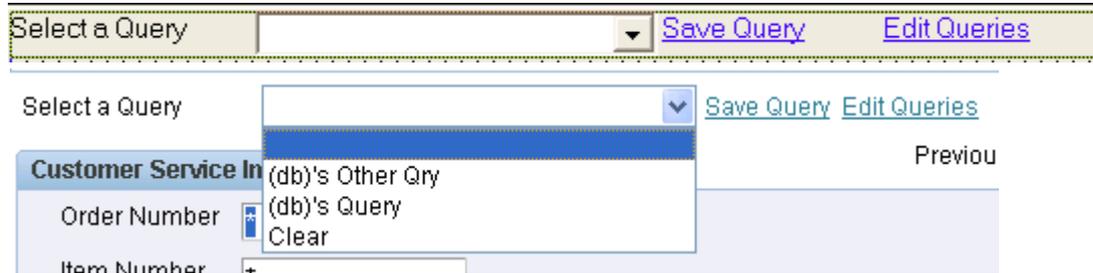
Ready for some Tricks?

Add the Save Query Object to Applications

- Insert it at every opportunity where the Application has Filters

- Applies to all Filter Fields (linked to BSVW)

- EDITABLE By the User!

- NO CODING REQUIRED

More Application Tricks?

Clickable Objects

Static Text

Column Values

This Text Is Clickable

Column Properties

Attributes

- ☑ Visible   ☐ Disable QBE
- ☑ Clickable   ☐ Disable Input
- ☐ Support Multiple Currencies ☐ Wrap Text

Static Text Properties

- 📄 General   📄 Size/Pos
- 📄 Justification 📄 Advanced

☐ Clickable

Text Clicked

Call(App:P01012 , Form:W01012A , Ver: GC0001)

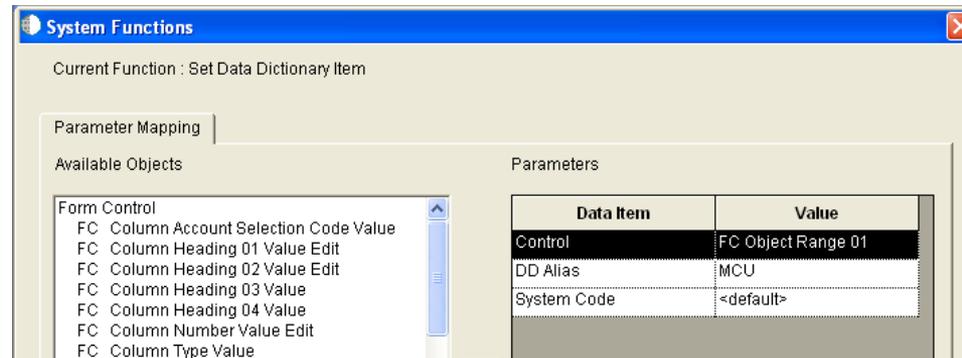| Batch Number	Doc Ty	Transaction Number
9572		1
9572		1
9572		1

… and … More Tricks?

Dynamic Fields

Change the Field 'type' on the fly

From CO, to MCU, to OBJ to…

I had this necessity to be able to change the Data Dictionary 'Type' of a form object on the fly – and you can

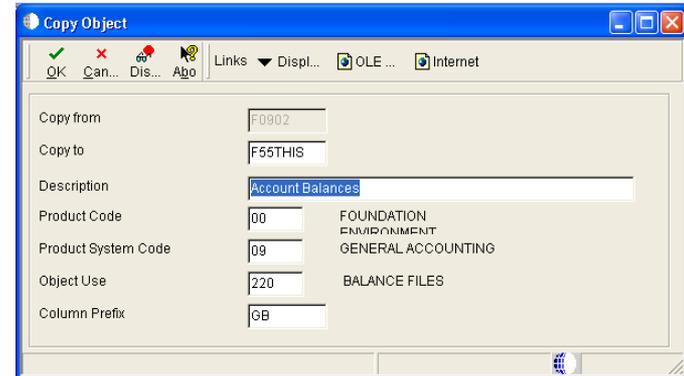From a Company to Cost Center – in one click

What the HECK is a Virtual Table

A Virtual Table is, simply, a JDE/TDA Table Specification that is defined to match an SQL View or Logical File
Create an SQL View (or iSeries Logical)
Create a JDE/TDA Spec that Exactly matches the SQL View's Definition

Create View F55THIS as (Select *
From F0902 where FY = '11')

More … Virtual Table

First, you have to define it:

- If you can create an SQL statement, that gives you exactly what you want – you can create it as a 'Virtual' table.
  - SELECT * FROM TESTDTA.F0902 WHERE GBFY > '11'
    - Then you can Create the View
  - CREATE VIEW TESTDTA.F55THIS AS (SELECT * FROM TESTDT.F0902 WHERE GBFY > '11')
    - Finally, Create an FDA Spec
  - MUST EXACTLY matches the definition of the Create View
- Cheat, wherever you can. If you do a "Select *" from a single table – you can copy that table (for example: F0902 -> F55THIS)

More @ Virtual Table

- If more than one table – you must rename columns in the SQL View
- SELECT T2.*, **NHFLOR NWFLOR** FROM PRODDTA.F15017 T2 LEFT OUTER JOIN PRODDTA.F1507 T4 ON (NWMCU=NHMCU AND NWUNIT=NHUNIT)

When would you use a Virtual Table?
- When you need to link more than five tables in a BSVW (a 'hard' limitation within E1)
- If you want to limit the data to a specific subset (only 2011 data)
- If you need to use the same table more than one time in a BSVW
- You want the data to include a fancy calculation (Sum)

> Create View F553RDQ as (Select MCU, OBJ, Sum(AN10), Sum(AN11), SUM(AN12)
> from F0902
> Group by MCU, OBJ
> Order by MCU, OBJ)

Virtual Table WARNINGS

There are a few things you should know about Virtual Tables

- Never Cross Libraries or Data Sources
- It could make it **impossible** to complete a Restore (as reported on iSeries)
- Virtual Tables are DISTINCT
- ALWAYS Consider including the Primary Keys in the View
- Distinct, could be a good thing
- If the Primary Key is not include – DON'T ATTEMPT to UPDATE Virtual Table
- Have an **APPROVED** naming convention for Virtual Tables
  - F55**V**…
- **Fine Print: There may be a whole bunch of rules I am not aware of, yet**

Reports… a Hearty Recommendation?

Create a Master Report Template

Include PID/Version/Version Description in Header

Especially for Financial Reports

Instead of Creating from Scratch – Copy the Master

Make sure to copy as 'Update', when necessary (default)

The Report Designer's Dream:
Give control back to the user (yeah, right)

Users want to be able to define a report, run it and have it in Production – Immediately

- Build Something
    - where Users have Control over their Headers
    - where Users Can Define Their Columns/Column Headers
    - where Users Can have Pre-Defined Version
    - where Users Can Test / Validate in DEV, the Copy to CRP then Run in Production – Without CNC Interference
    - where Users Don't have to wait for Three Days / Builds – before running in Production
    - PROVE IT (DEMO)

Give them Table Driven / Definable Headers

Concept from a Master Template

Default the PID, Version and Version Description into All Reports

Allow the User to Define the Headers (The three lines at the Top Middle of Every Report)

Table (or Processing Option) Driven Column Headers

Table (or Processing Option) Driven Column Selection

Users Can Define Their Columns / Column Headers

Create Table Driven Column Definitions

- Flexible Reporting – Should be the Future

- Let Users Provide Column Values at Run Time

- Useful for:

    - PDBA Payroll Reporting

    - Financial Reporting (Companies, Bu, OBJ, Subs)

What Would It Look Like?

What's JDE Research?

A Group on LinkedIn – where EnterpriseOne Application and Development announcements / request can be presented

Please - No Recruiters / Spies

JDE ONLY

A Place to Request Tips / FAQs for the JDEResearch.Com Site

What is JDEResearch.Com

A Web Property for Tips / Traps

A Portal for Free and Commercial Tools

SQL, Hacks, Applications and Theories

A Portal for Crowd Resolution / Discussion of E1' shortcomings

More JDE Research?

What's next for JDE Research:

- Any Requested Enhancements, FAQs or Tutorials
- A Formal User Reporting Tool Release – some time in the future
- A Bolt-On for Issues Tracking
- Tracks OMW Projects as Tasks, notifying the Functional Team when an object is deployed to PY
- Notes, Notifications, Time & Tracking – Project Management Based, to allow the team to know the status of on-going development at a snapshot
- Whatever you guys suggest (come on, dream a little)
- The Holy Grail – SQL Injector for RDA

Third Party Tools and Nearly Free Stuff

Beyond Compare – www.scootersoftware.com

Absolutely the best compare tool out there

Text, Folders, FTP vs Folder, Pix ….

Patwel's Object Browser

Free – at: http://www.patwel.com/downloads/index.htm

Microsoft Action Pak

$399 a year – for 10 Copies all of Microsoft's OS(s) and Office Software

Microsoft Web Site Spark

Enrollment gets you Visual Studio (and a bunch of other extras)

Oracle Support Site

https://supporthtml.oracle.com/

Any Questions or Comments

Learning is what we do.
Learning with others – is Community
Show me some community –
ASK Your Community, at the JDEList.Com
Ask for an Enhancement at:

JDE Research's QWKR

Does Dynamic User Defined Financial Column-Based Reporting

http//:www.jderesearch.com

How To: Get Ahold of (db)

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PeopleSoft

RECONNECT

July 23-25, 2013   Rosemont, Illinois

Mark Your Calendar!

JD Edwards

INFOCUS

A JD Edwards EnterpriseOne Deep-Dive Event
December 2-4, 2013   Denver, Colorado

Online Series Offerings for 2013

Take advantage of these **improved series offerings** for 2013, featuring Oracle sessions, vendor sessions and some of the best customer sessions from the Quest community. Train from the comfort of your desk!

Series	Month
Professional Development Series	June
Executive Series	June
HCM Series	July
Upgrades Series	August
Mobility Series	September
Financials Series	October
JD Edwards World Series	November
Tools & Technology Series	November