

Dököll Solutions, Inc.

Application Development

Project Name:	Create New IBM DB2 Table for Domino Designer, JDeveloper	Start Date:	2015.11.10.1.17.PM
Purpose:	New Table Structure for SQL	End Date:	2015.11.10.1.17.PM
Language:	Java, SQL	Environment:	IBM Domino Designer, DB2, Oracle JDeveloper
Employee Name:	Dököll Solutions	Employee ID:	Dököll Solutions
Task(s):	Configure New DB2 Columns using Control Center	Document:	Journal Entries

IBM Domino Designer, Oracle JDeveloper Create New IBM DB2 Table

System Requirements

Software/Environment	Language/Technology	Protocol/Framework/Platform
Microsoft Windows 7, 8, 10	VBScript, Batch	Active Directory, Operating System
Microsoft Internet Explorer	N/A	TCPIP, HTTP, Browser
Google Chrome	N/A	TCPIP, HTTP, Browser
Mozilla FireFox	N/A	TCPIP, HTTP, Browser
Oracle JDeveloper 12.xx	Java	HTTP, TCPIP, IDE
Oracle Integrated WebLogic 12.x	Console	HTTP, TCPIP, Server
IBM DB2 Express-C	SQL	SQL Database Server
IBM Data Studio	SQL	SQL Database Management, IDE
IBM Notes Domino Designer 8.5.3, 9, 10	JavaAgent, XML	HTTP, TCPIP, IDE

Disclaimer:

Information contained in the following is presented as is. This tutorial assumes you have basic programming and software configuration knowledge. All tutorials are based on IBM Notes Domino or Oracle Fusion Middleware, including and not limited to items stated in the System Requirements. Should you need to familiarize yourself with IBM Domino Designer or Oracle JDeveloper environments, prior to continuing, stop now and see our Journal Entries page on our website: www.dokollolutionsinc.com for additional support...

Foreword:

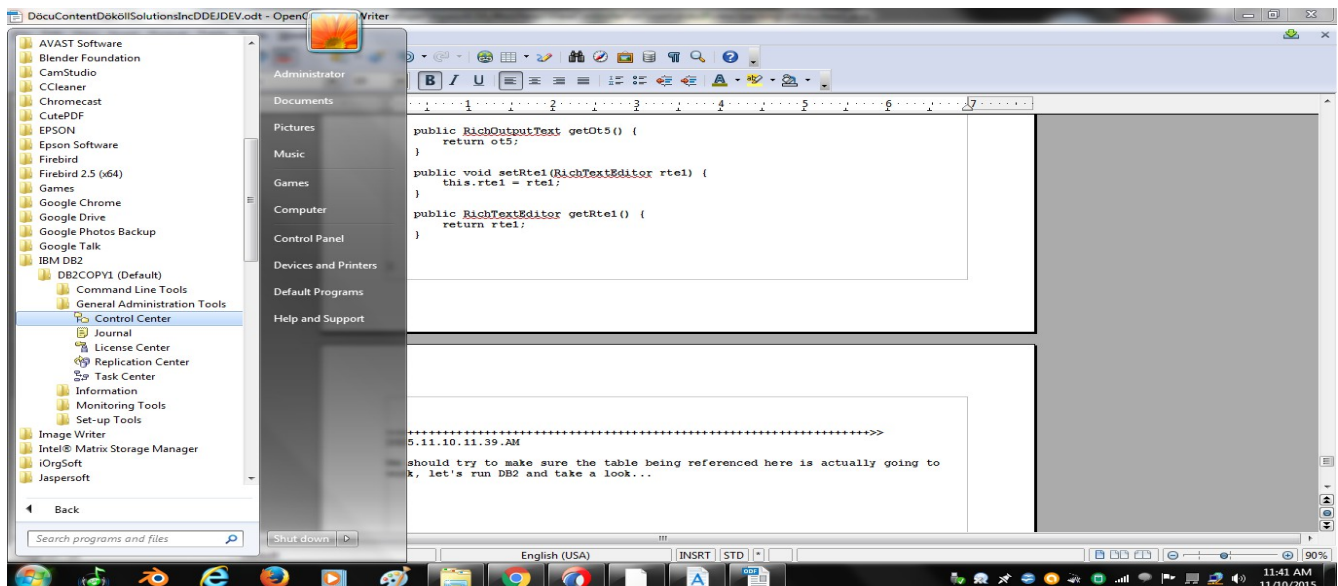
Samples included in this Journal Entries document are part of a series, be sure to consult other versions of the documentation to benefit in full.

Observation:

Judging by our recent trial of the IBM Domino Designer and Oracle JDeveloper data exchange, some aspects of our process need to be revised. What you saw was a successful combination of different Java code samples to arrive at a working program that reads an XML file from a URL. It then posts the data to Oracle WebLogic console, splits the records into parts, and then submits strings of it to our IBM DB2 table. What you did not see from that Journal Entries document is that, in trying to insert the values from that file to our DB2 table, we were surprised to see an error log loading in the WebLogic server console. What may not be obvious to you is we simply forgot to make sure the back-end was prepared to collect the data being exchanged. So now, we are going to make the necessary steps to remedy the issue. We will, without a doubt, make sure that all areas of interest are highlighted for your convenience.

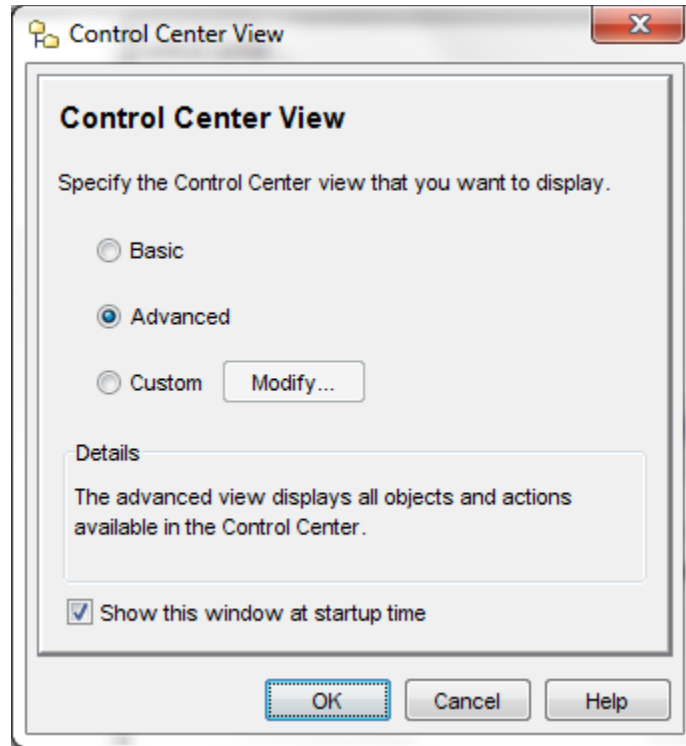
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The best course of action is to create a new IBM DB2 table. All necessary database columns and data types need to be properly configured. We will in fact benefit from creating a database from scratch and managing it using IBM Control Center, so it is rather advantageous that we are doing this. It is also beneficial to create a new table instead to save time troubleshooting.

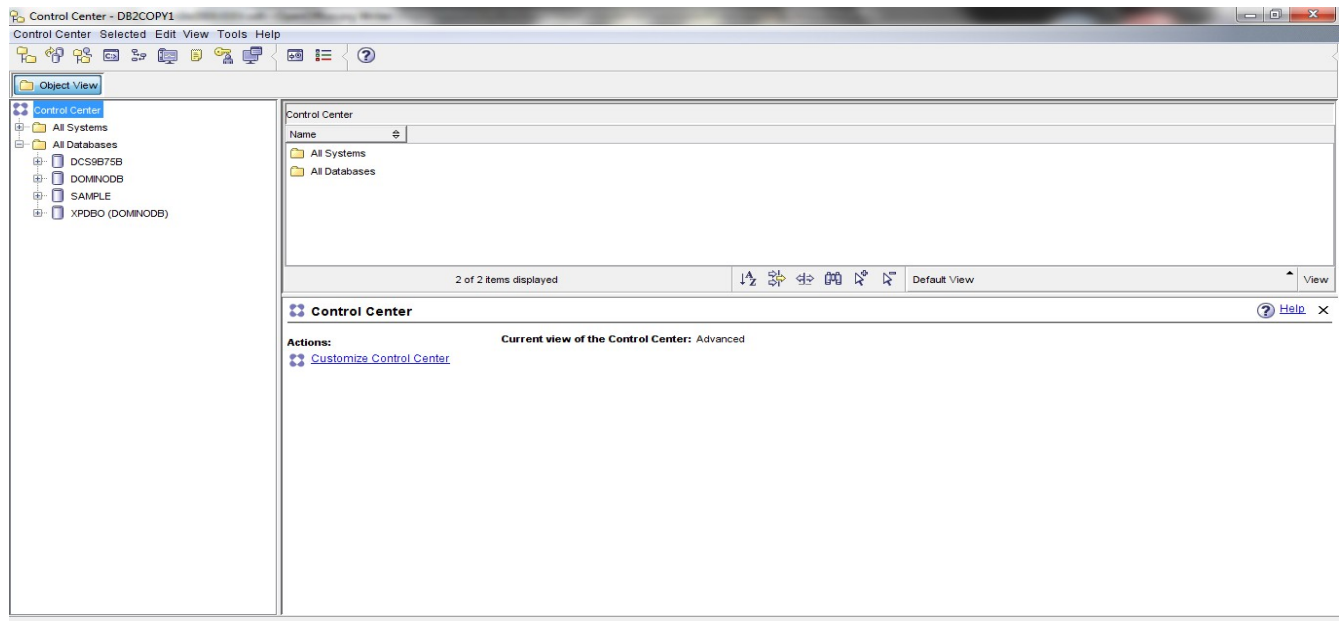


Let's try to turn our defeat into a victory, we can still learn from the errors present- Running DB2 now and taking a look at the back-end. We are going to go through our process step by step and taking as many screenshots as possible...

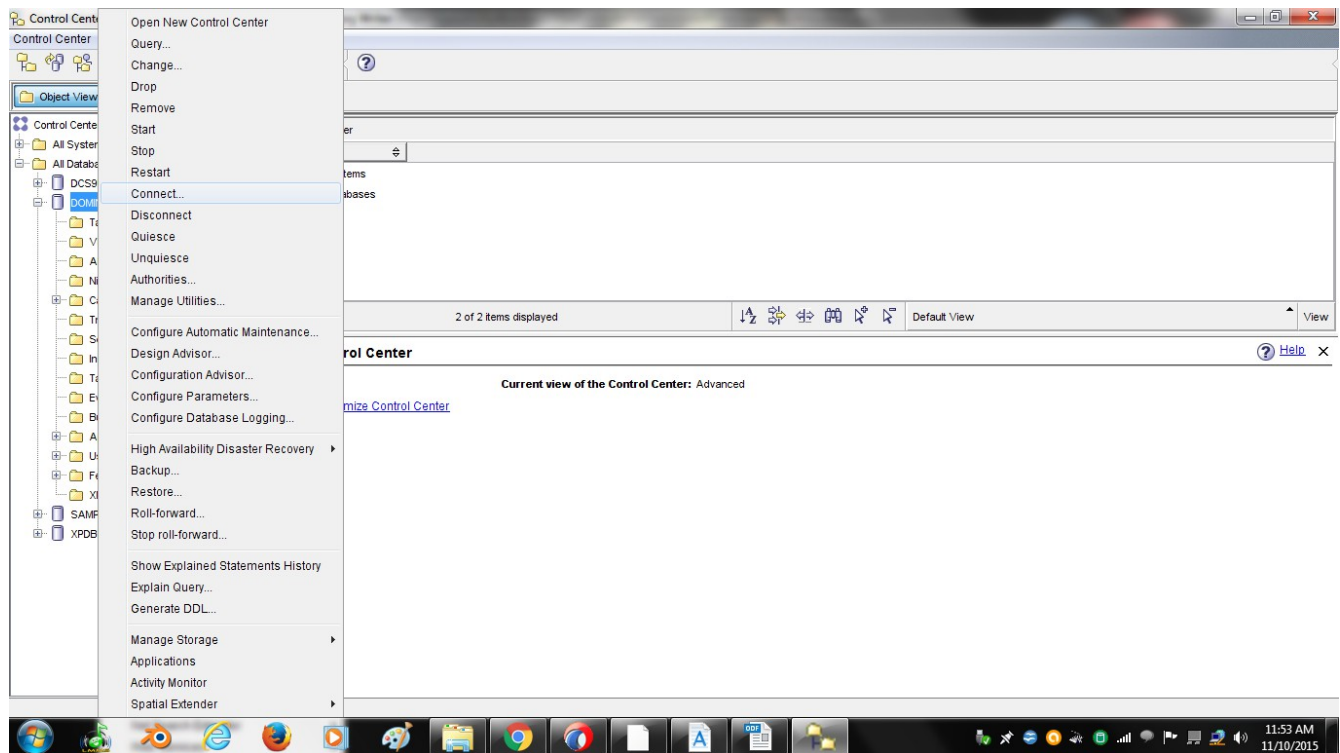
Loaded IBM Control Center and getting on with it-



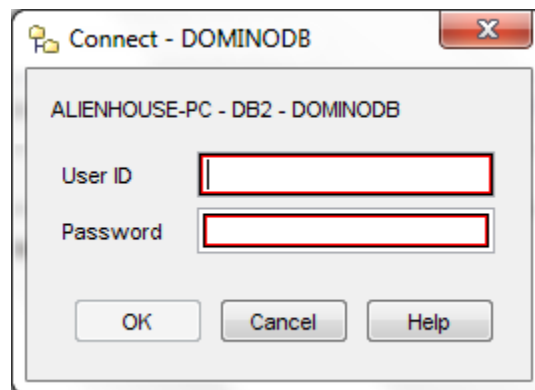
Will hit ok here...



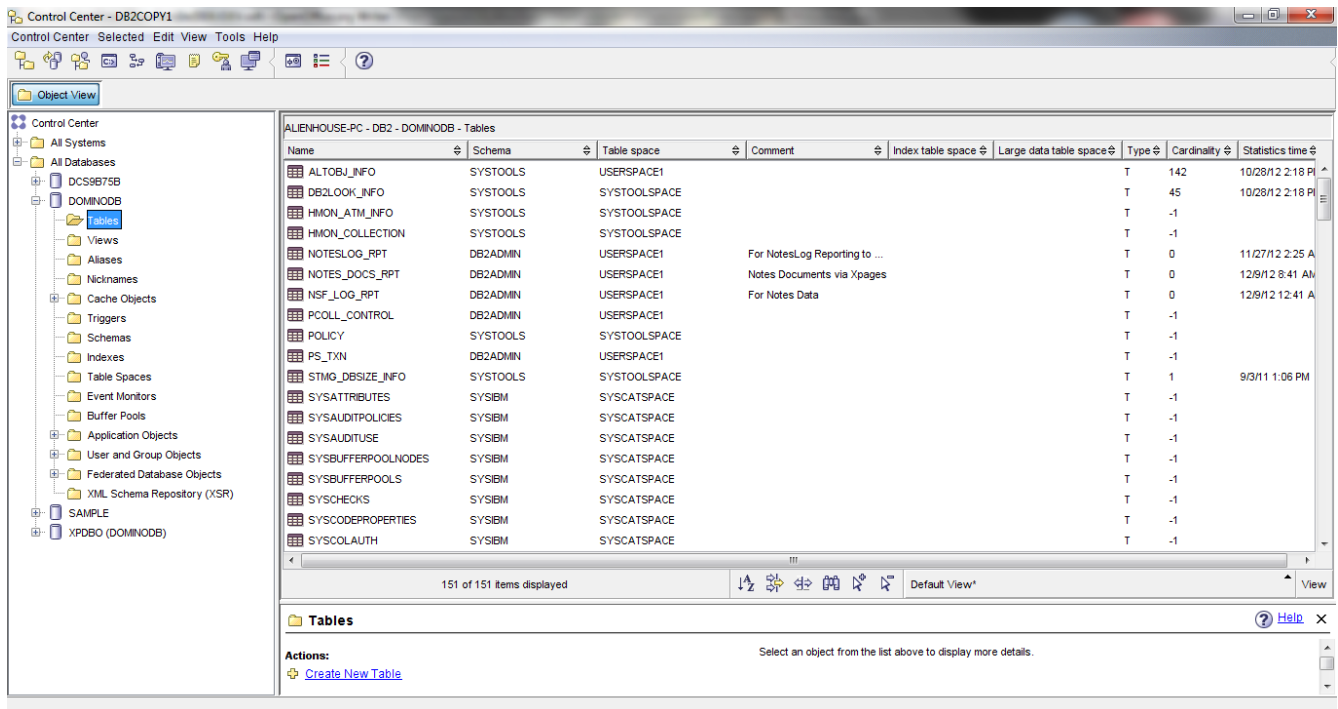
Will choose the DOMINODB database...



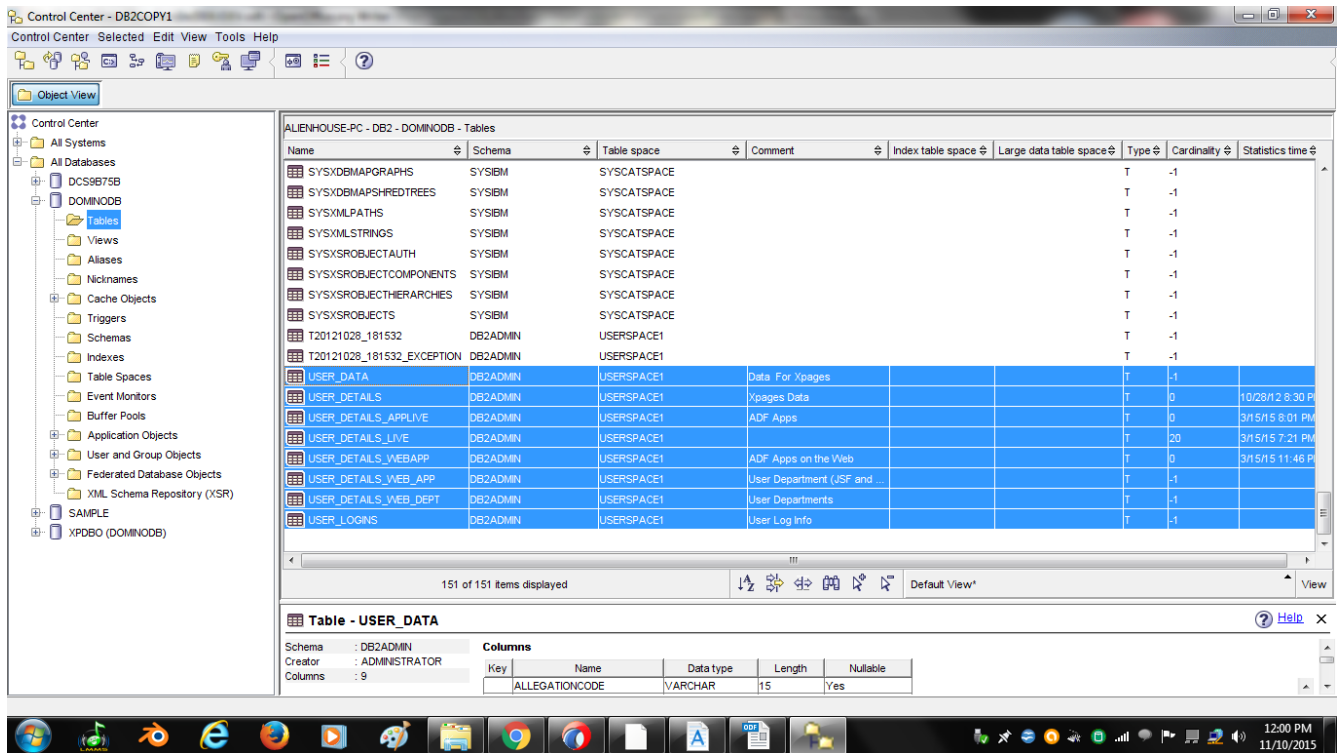
attempting to connect, will be adding the credentials the database was created with



obviously the only choice is the DB2ADMIN user... at this point, you should have had your own password for this, we will skip showing this information...

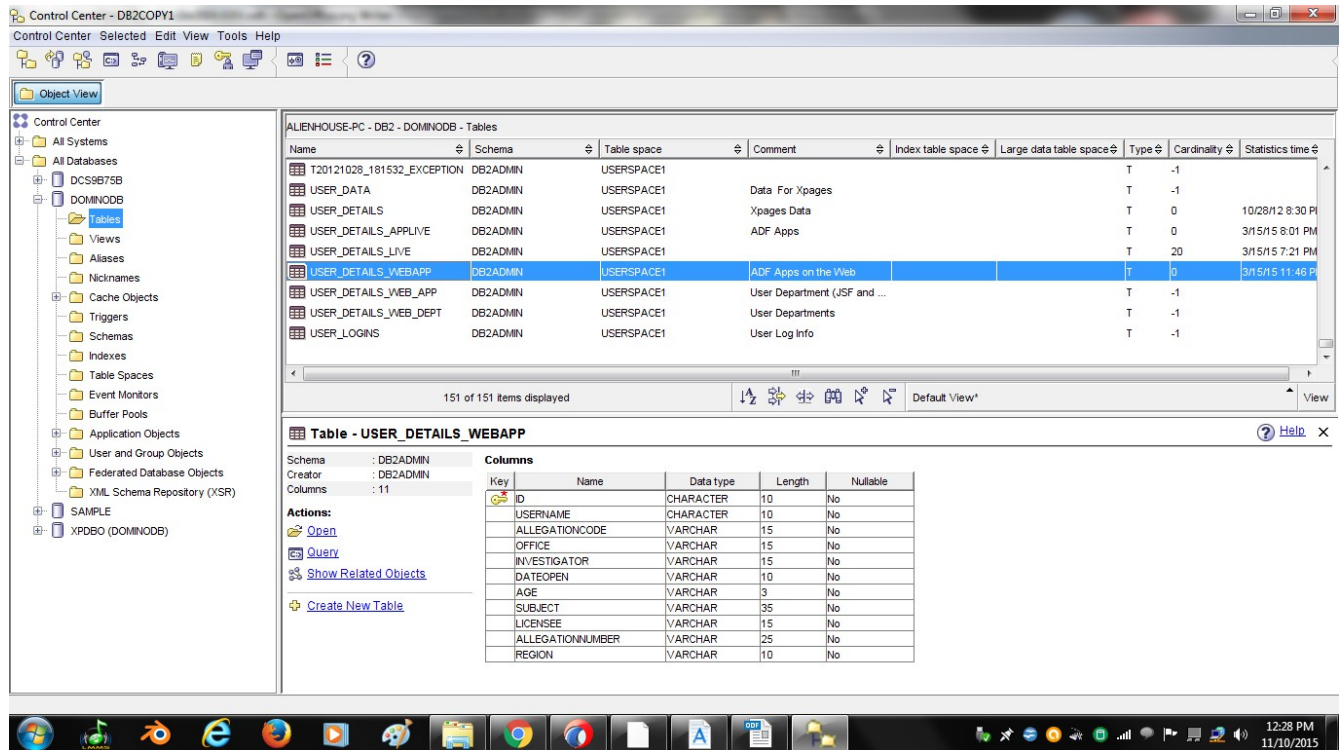


Selecting *Tables* in the database panel at left reveals all tables in the DOMINODB database... if you were to scroll down you should be able to see specific tables we created for our Docu Content Apps, especially NOTES_DOCS_RPT, which we now know was not ready to grab data from our previous IBM Domino Designer and Oracle JDeveloper attempt...



A little bit of investigating is needed to see which table will help us plan for our next XML file records

transmission from our Domino Designer URL, JDeveloper Java program, into our DB2 database.



USER_DETAILS_WEBAPP has a unique key system, this is a good candidate... we need to model a table based on that one.

IMPORTANT

Will need to logoff the Administrator account and log back in as DB2ADMIN user to create the table... It is necessary to do this, otherwise you will not be able to manage your DB2 database with the valid DB2ADMIN user, and when running your Java application with that account, you will not have permission to the database table you are trying reach.

First, we're typing up a quick outline of the new database table columns... Naming them based on fields in the XML file, as highlighted below.

```
Root element sitesissues
Total Issues : 2
UserName : AlienHouse
PageID : http://localhost/docucontent.nsf/xpissuesformnewuser.xsp
Priority : Low
issues Found : Testing
DBConnector Connection Started...
<Nov 10, 2015 11:13:37 AM EST> <Warning> <Socket> <BEA-000449> <Closing the socket,
DBConnector Running: IntegratedWebLogicServer
```

Database Table Name: ORA_FEEDS_DB

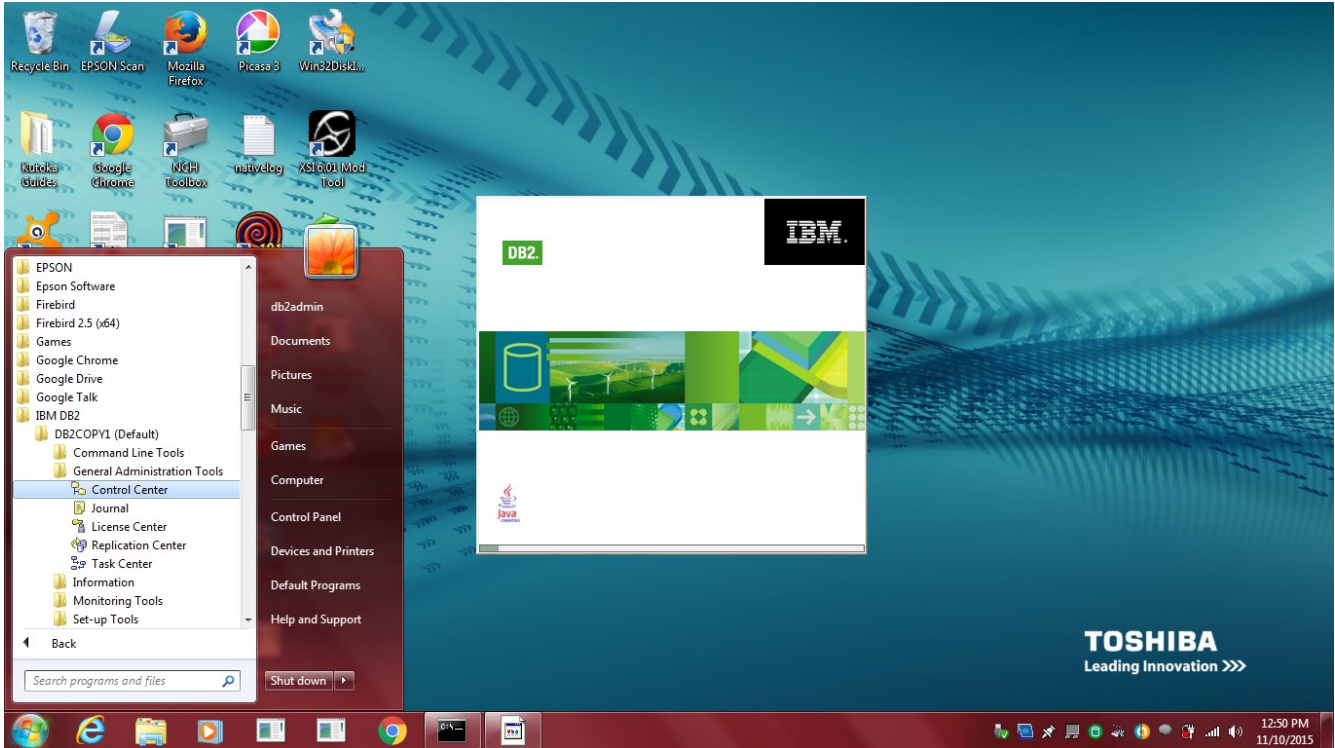
Column 1 = UserName

Column 2 = PageID

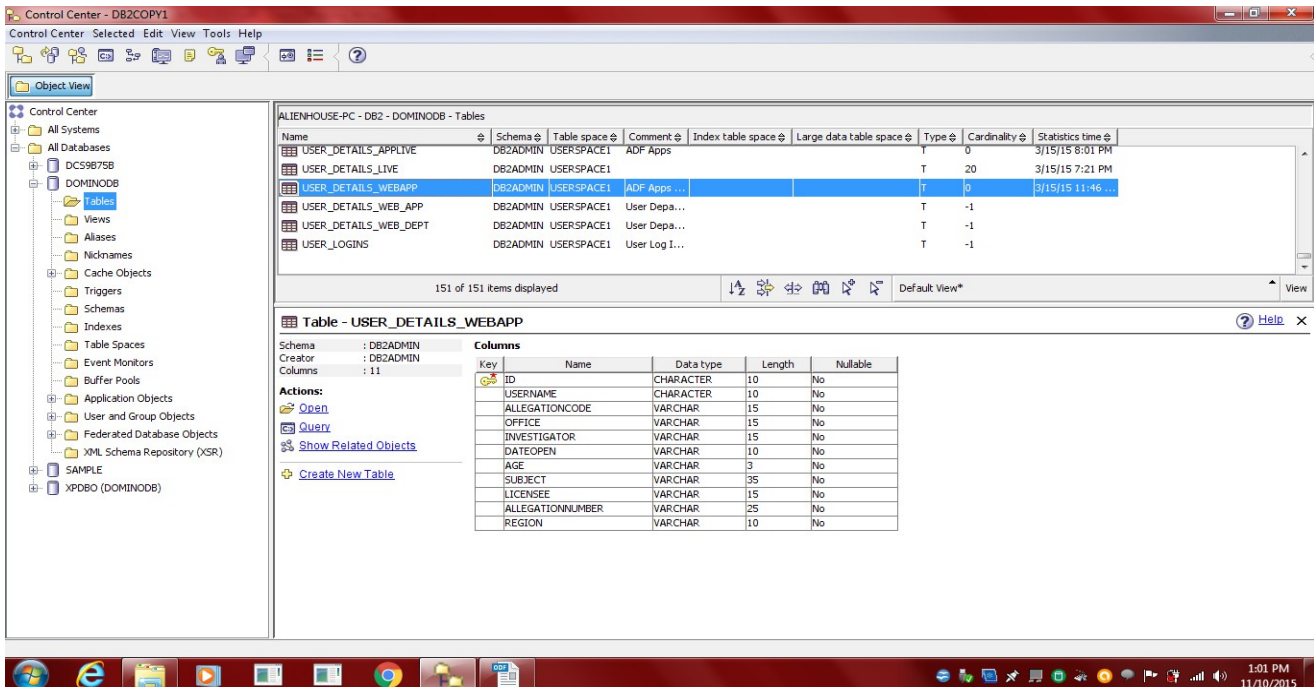
Column 3 = Priority

Column 4 = IssuesFound
 Column 5 = DateCreated

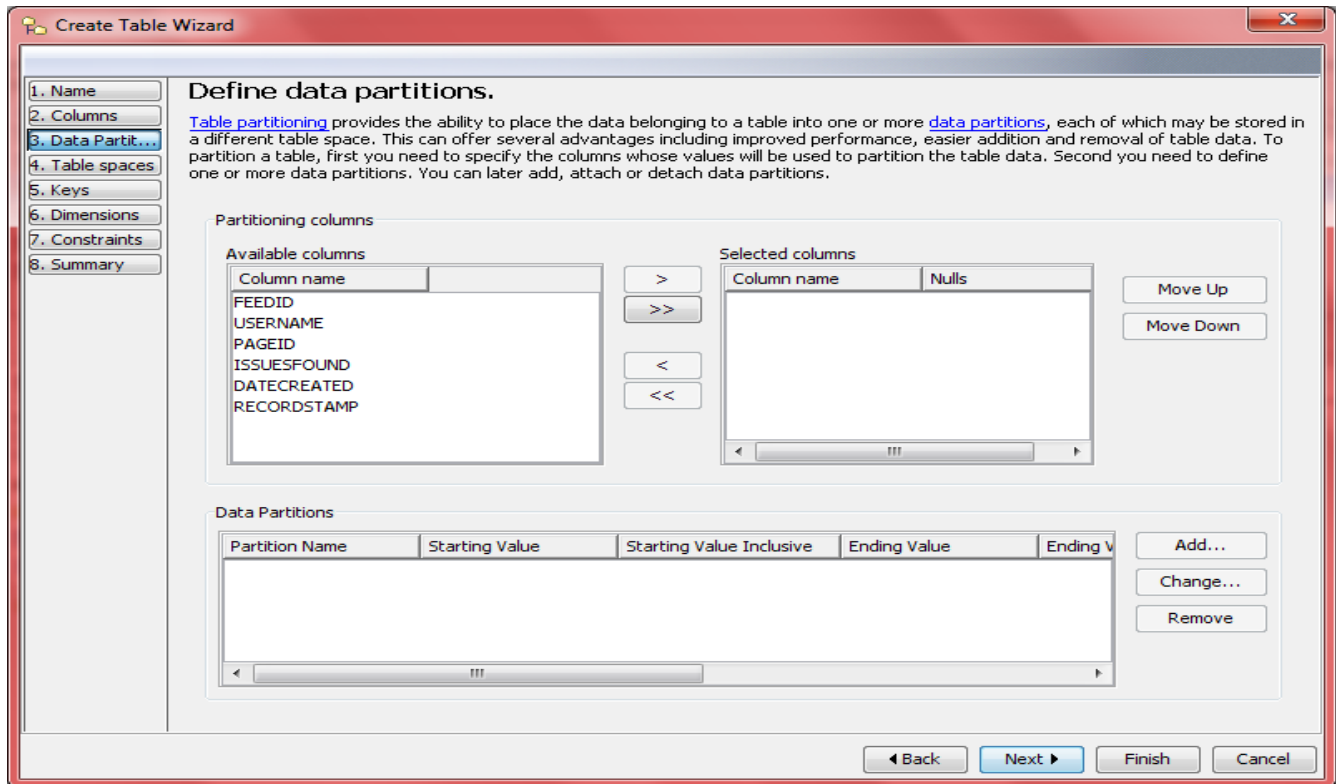
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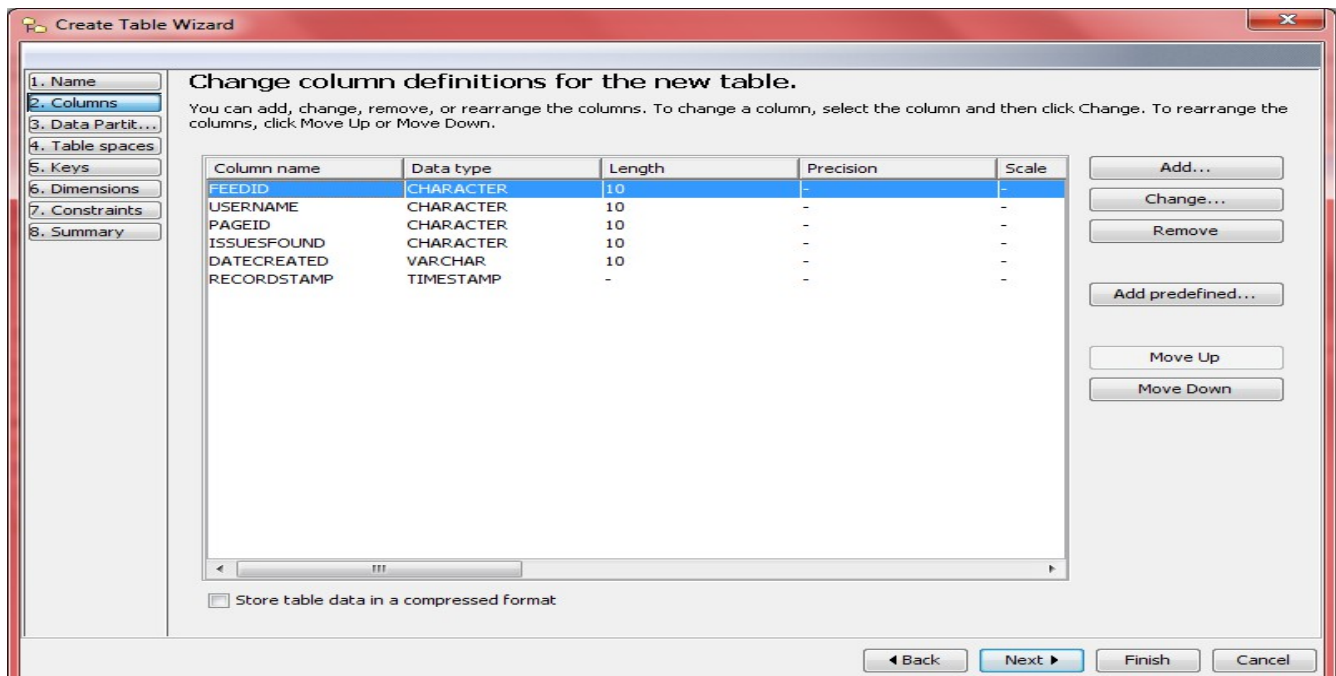
Our goal as DB2ADMIN user is to create a table, as defined above, add records to it through JDeveloper App. For now, let's mimic the following table structure, skipping some steps...

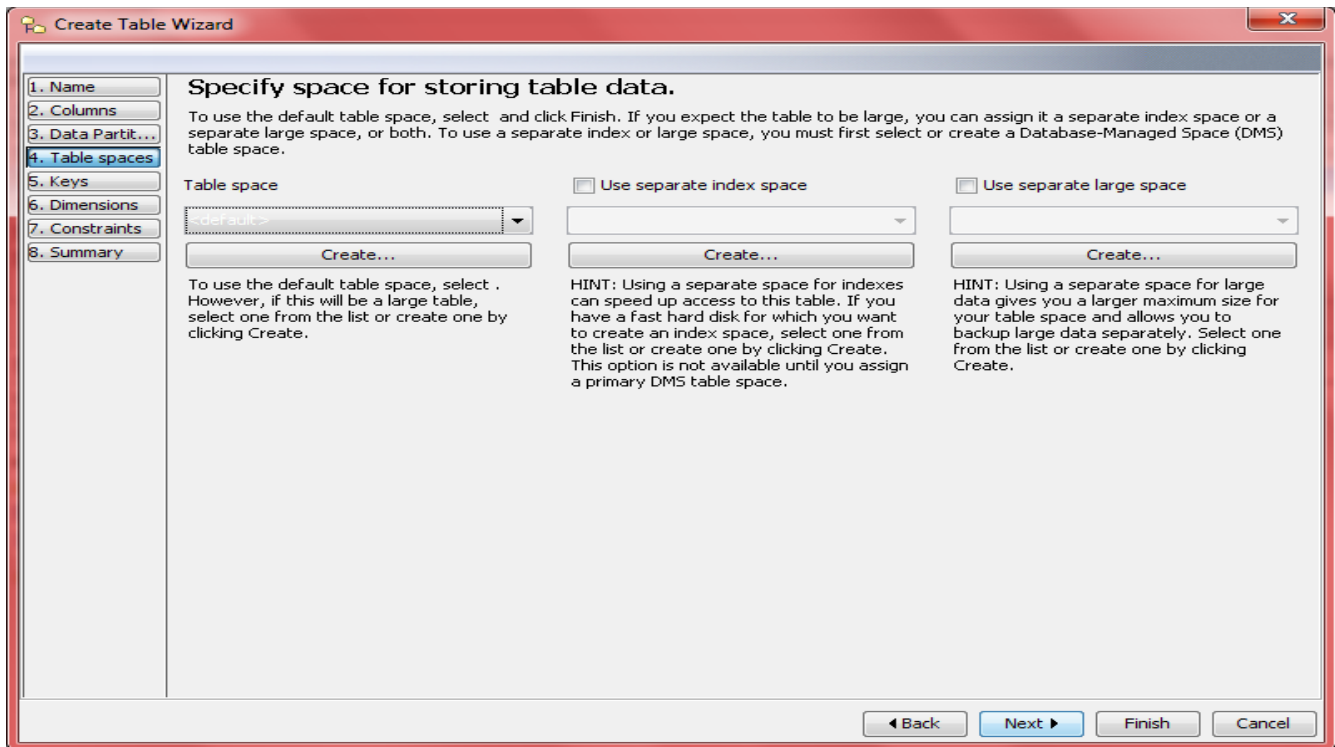


New table has been created, now we need to configure all columns so they work as expected... Going through all defaults at this point, no changes are needed until Keys portion of the setup.

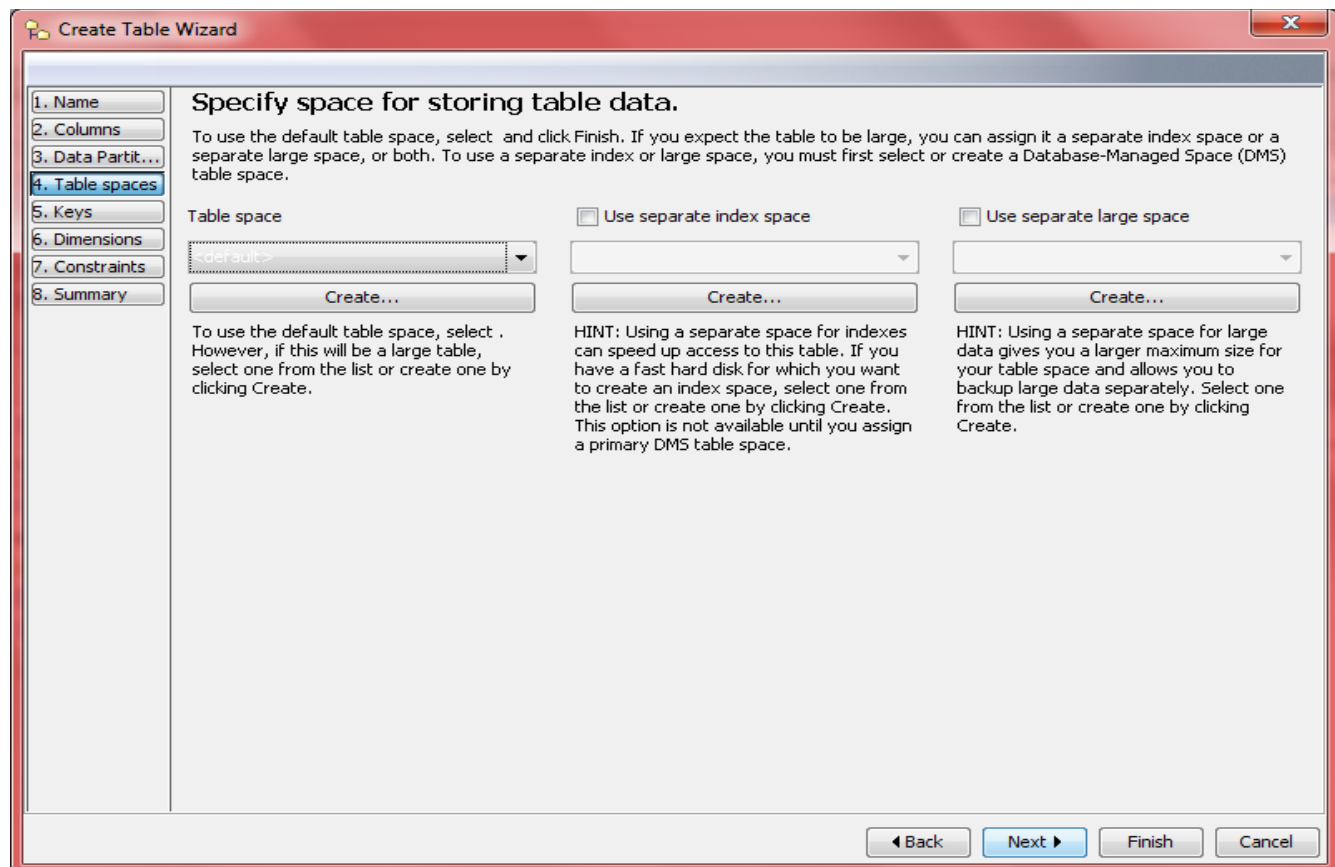


Click 'Change' button to make FEEDID column the primary key. Be sure to do this as you are creating your table. If the table is fully configured, you will have to Alter the table to modify the datatype. Doing so may not be an easy task, depending on your time frame, one of the reasons we decided against altering our previous table.

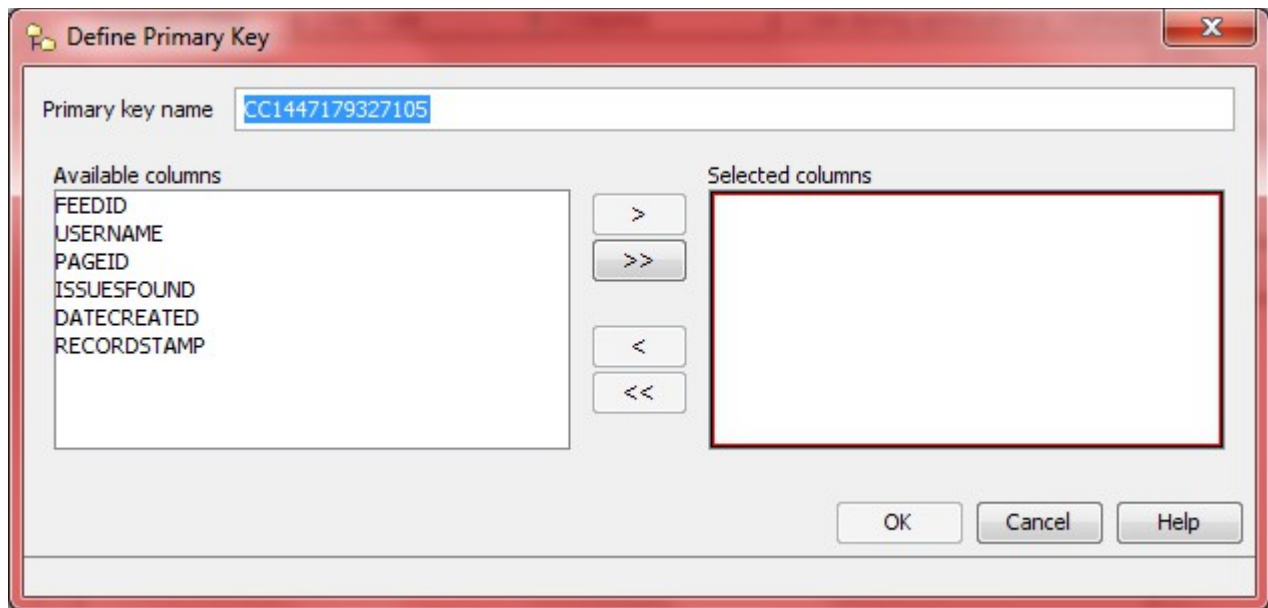




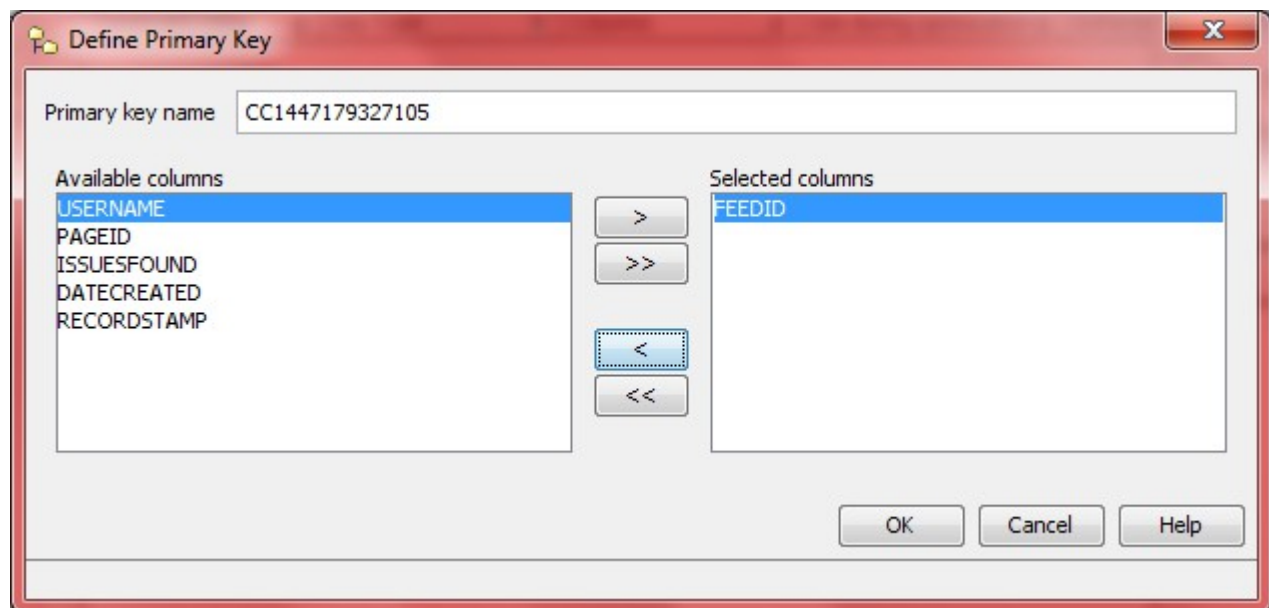
Accept the default here for Table space, but click Next to add a Primary Key....

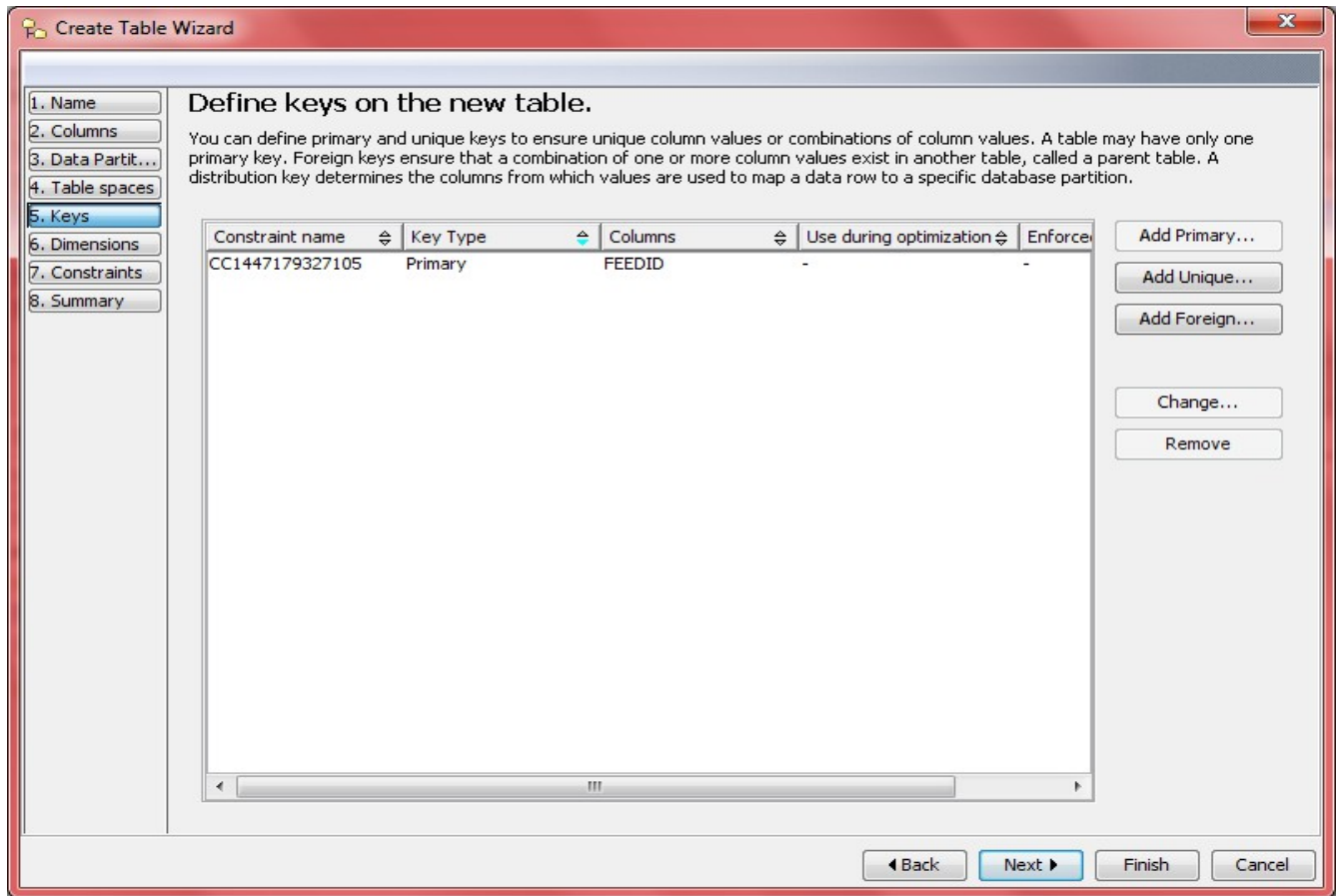


Click Primary Key button to add FEEDID column in this case as Key... Selecting FEEDID in Available columns and clicking the arrow at right ports the column to Selected columns window to assign Primary Key to that column.

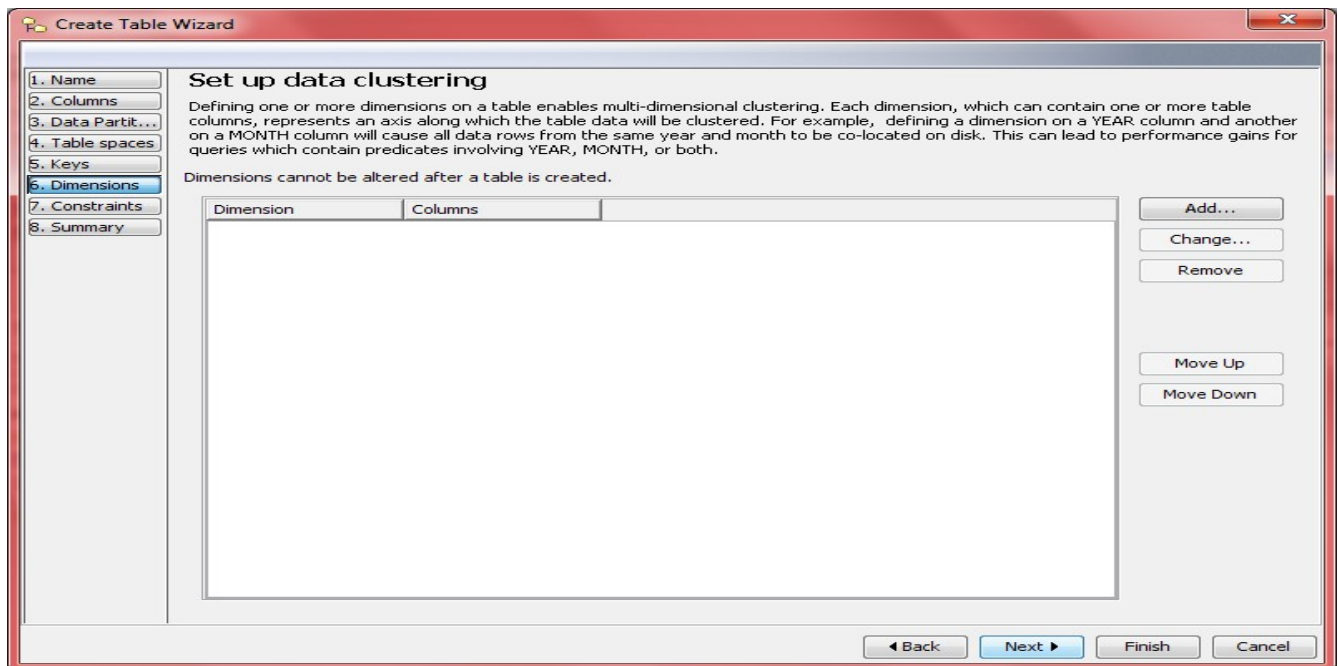


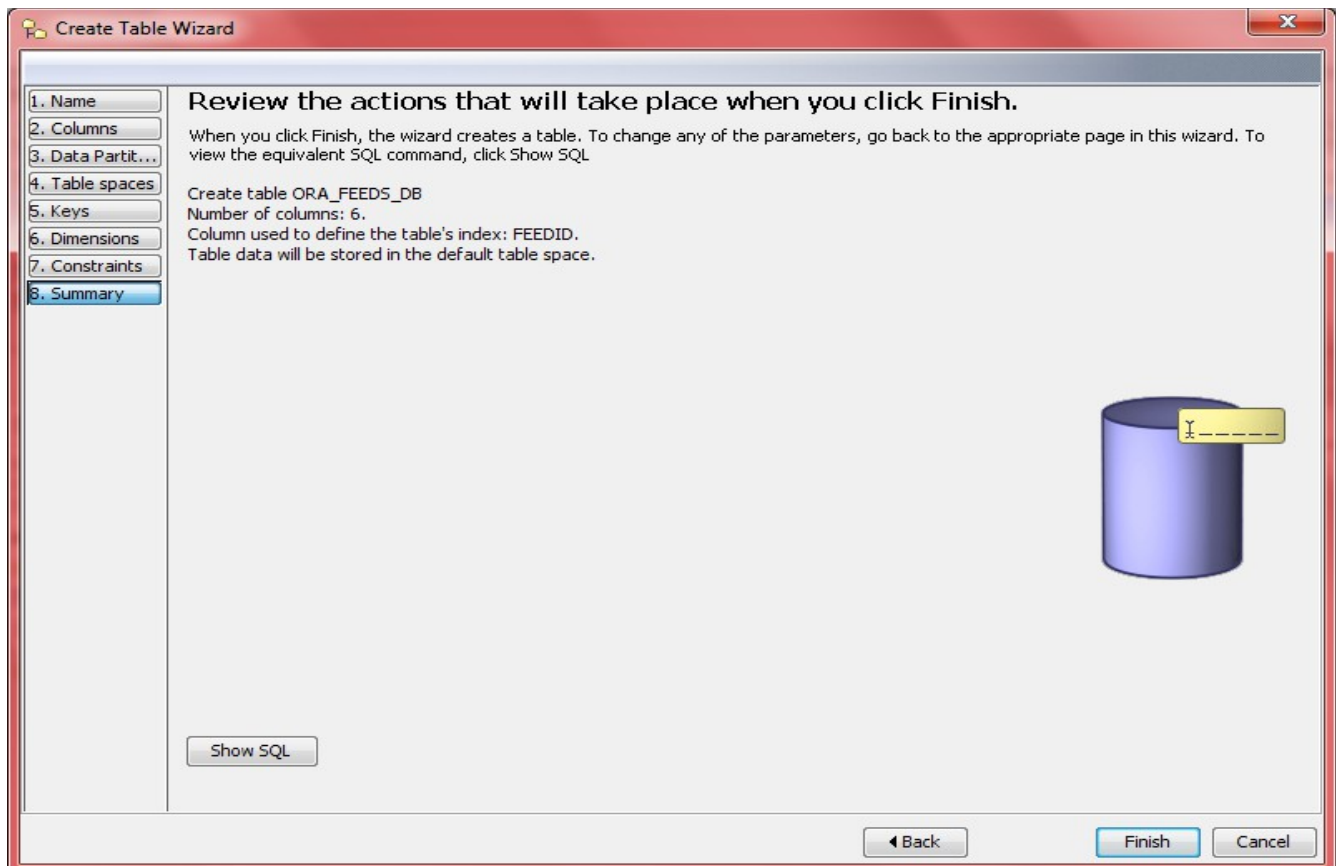
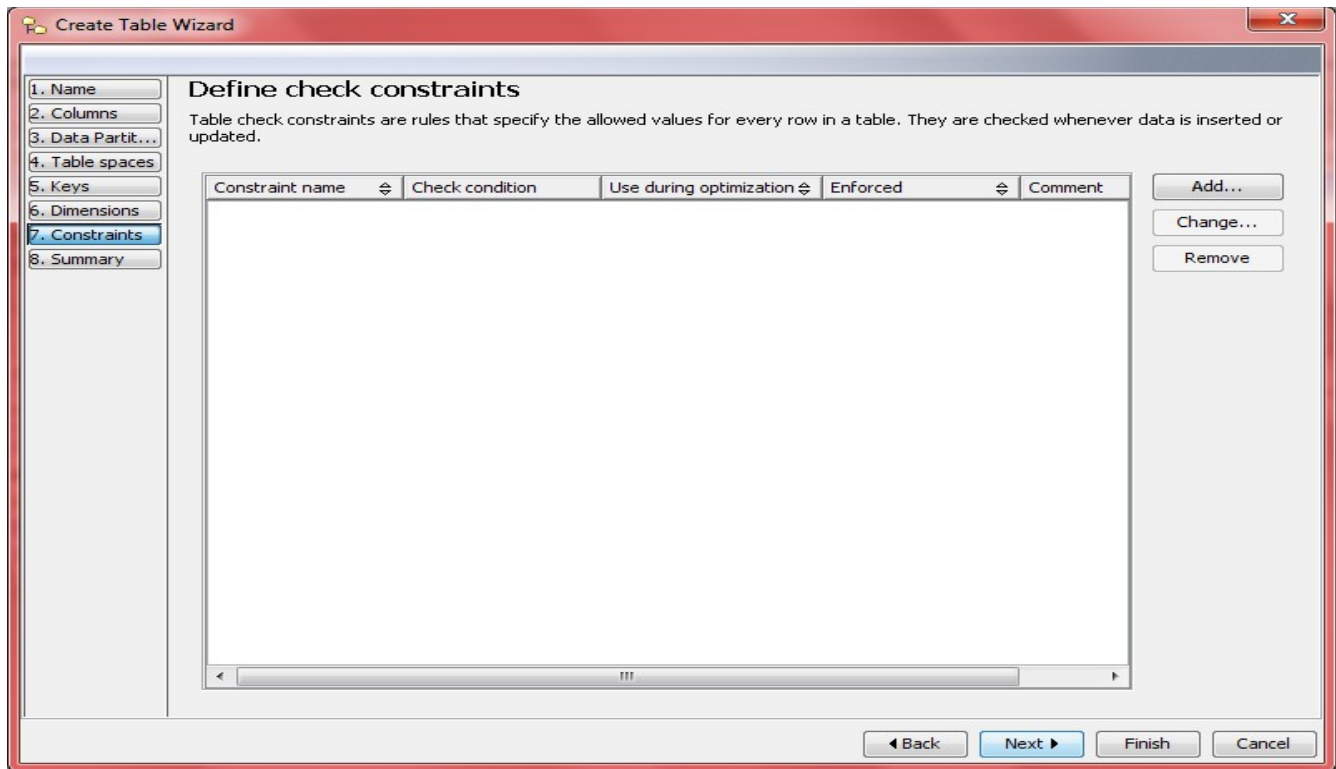
Click okay button when you have finished...

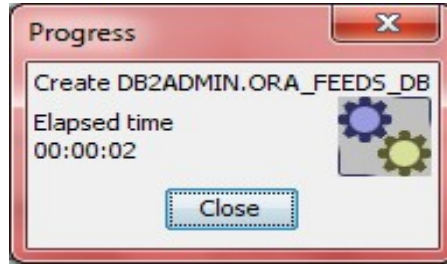




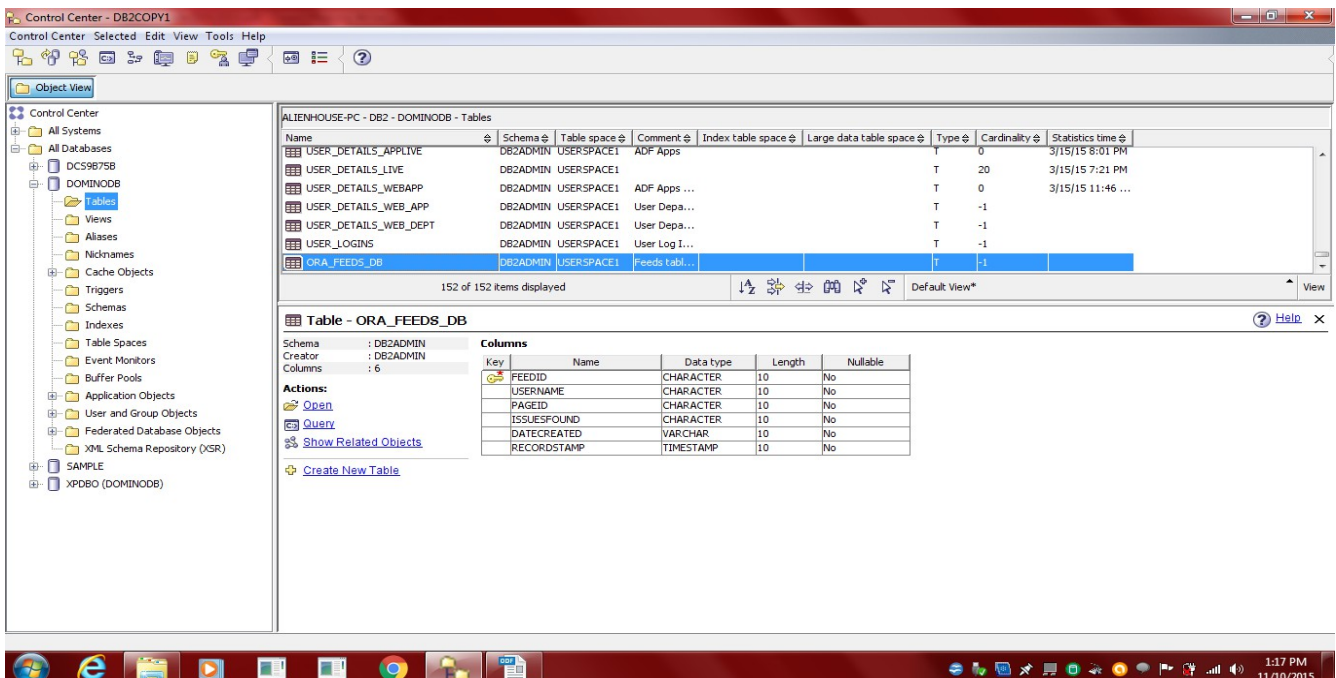
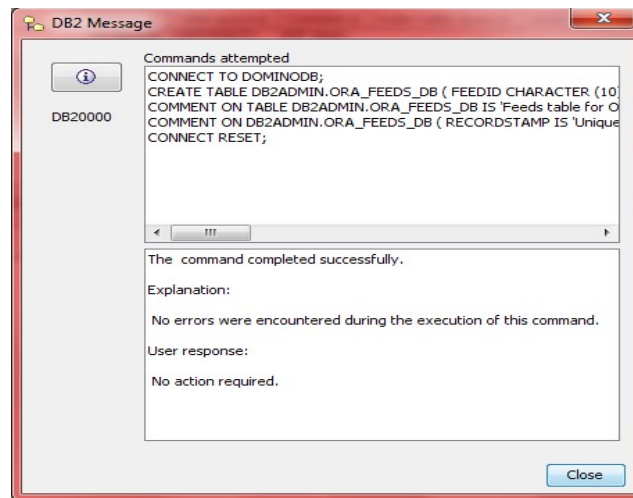
Go through defaults from here on out...







Our IBM DB2 database table is now created. We are going to inspect it and insert some static data into it to make sure it is stable. Then we will run the IBM Domino Designer and JDeveloper programs to insert XML data. Our best guess is this new table remedied all prior issues and we should be able to complete this part of the project...



Conclusion:

We created and configured a new IBM DB2 database table for our IBM Domino Designer and Oracle JDeveloper data exchange programs. We are preparing to test it then run the process again, we suspect a successful data submission from our XML file is imminent.

See Next Journal Entries document...

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Credits

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