

Dököll Solutions, Inc.

Application Development

Project Name:	Alter DB2 Table for IBM Domino, Oracle JDeveloper	Start Date:	2015.11.10.1.39.PM
Purpose:	Modify Table Column for SQL	End Date:	2015.11.10.1.39.PM
Language:	Java, SQL	Environment:	IBM Domino Designer, DB2, Oracle JDeveloper
Employee Name:	Dököll Solutions	Employee ID:	Dököll Solutions
Task(s):	Control Center DB2 Column Alter	Document:	Journal Entries

IBM Domino Designer, Oracle JDeveloper Altering IBM DB2 Table Column

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.

Introduction:

Altering our IBM DB2 database table 'ORA_FEEDS_DB'. Let's jump back into it quickly. We have already gone through the creation of a DB2 table. This time we are going to alter the pageid column, it is currently 10 characters in length, it needs to be much greater. For this part of the process, we will keep our screenshots low and only post what is pertinent information. Again, areas of interest will be highlighted as guide, where necessary.

+++++

2015.11.10.1.18.PM

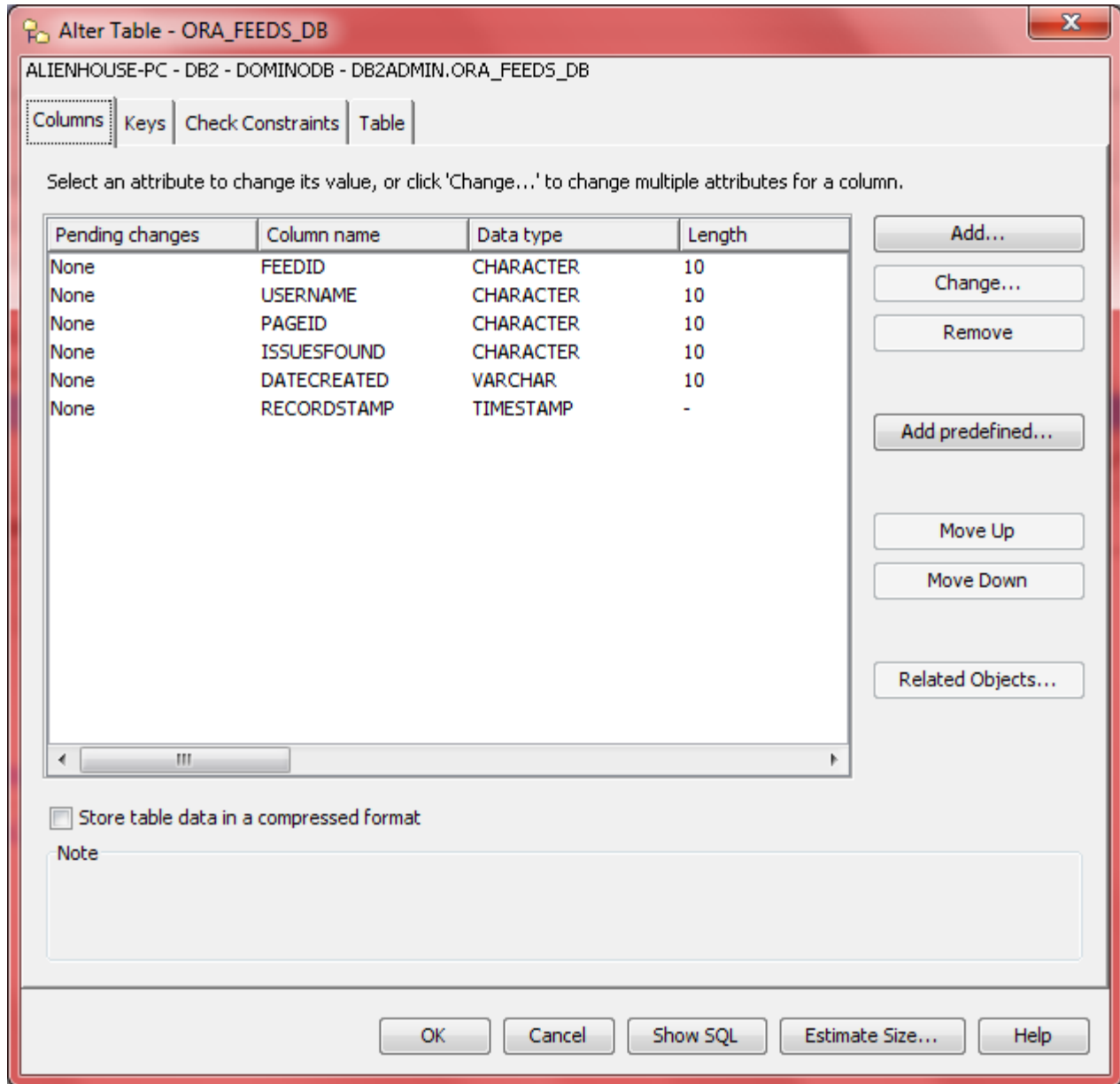
In our eagerness to get going on the project, we recorded the pageid column length as CHARACTER 10 in our ORA_FEEDS_DB database table, that will not do since the values coming in are URLs.

The screenshot shows the IBM Control Center interface for a DB2 database. The left pane shows the object hierarchy, with 'ORA_FEEDS_DB' selected under 'Tables'. The main pane displays a list of tables with columns: Name, Schema, Table space, Comment, Index table space, Large data table space, Type, Cardinality, and Statistics time. The 'ORA_FEEDS_DB' table is selected, and its details are shown in the lower pane. The 'Columns' section shows the following structure:

Key	Name	Data type	Length	Nullable
	FEEDID	CHARACTER	10	No
	USERNAME	CHARACTER	10	No
	PAGEID	CHARACTER	10	No
	ISSUESFOUND	CHARACTER	10	No
	DATECREATED	VARCHAR	10	No
	RECORDSTAMP	TIMESTAMP	10	No

Since the pageid column will contain URL type of data, it will need to have plenty of characters...

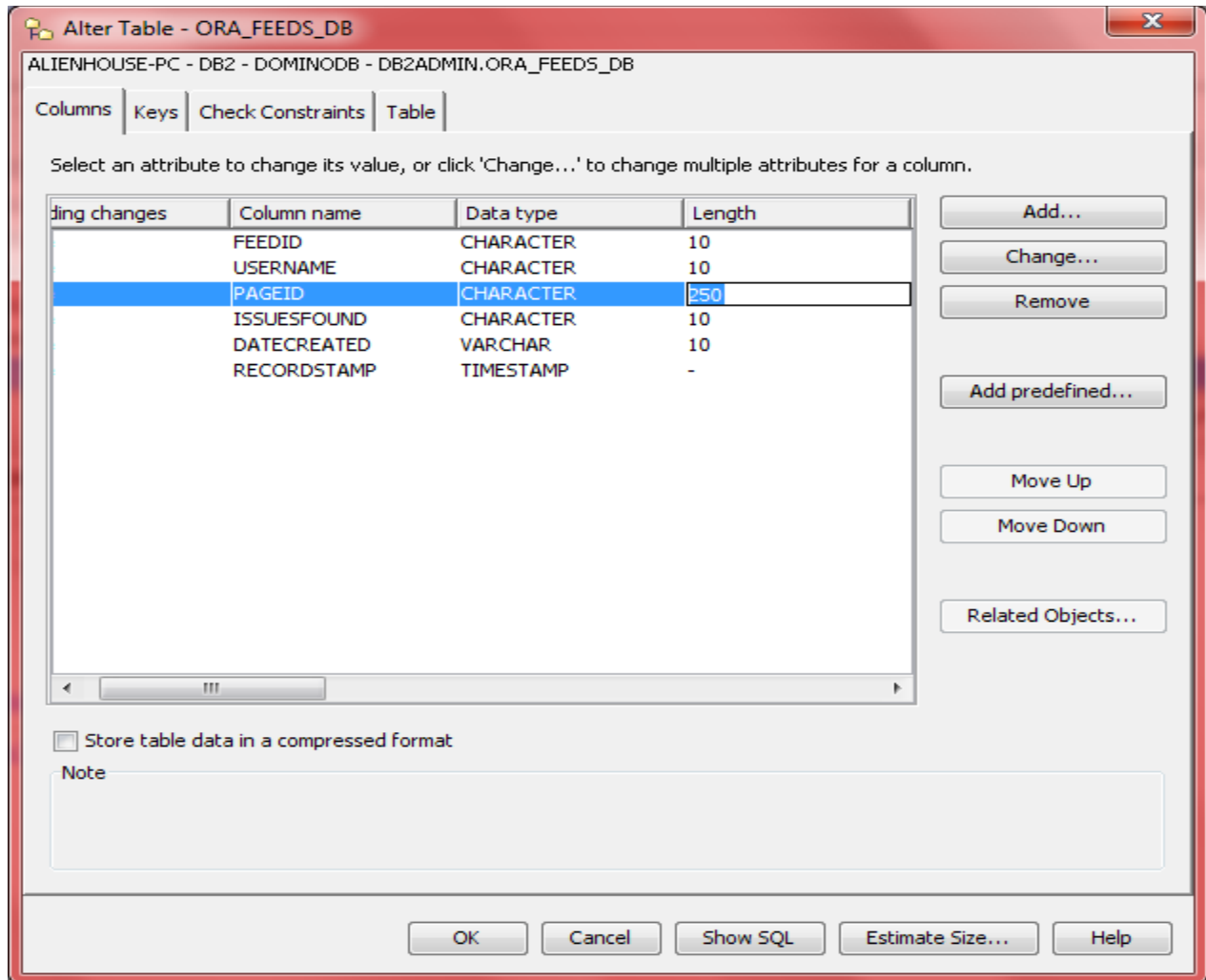
We will not post the process of altering the column if it is not interesting or informational enough...



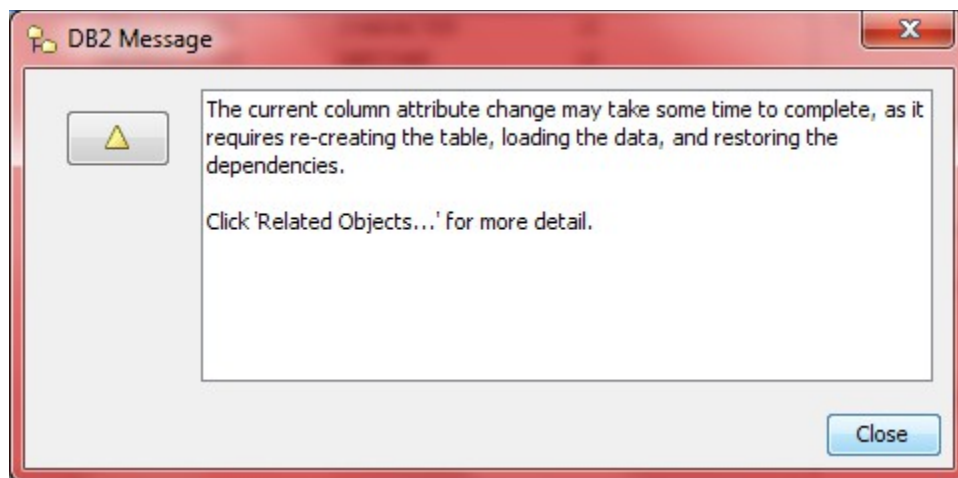
Selecting then Clicking 'Change' button in below screen should reveal a form to modify the information...

Technical Notes:

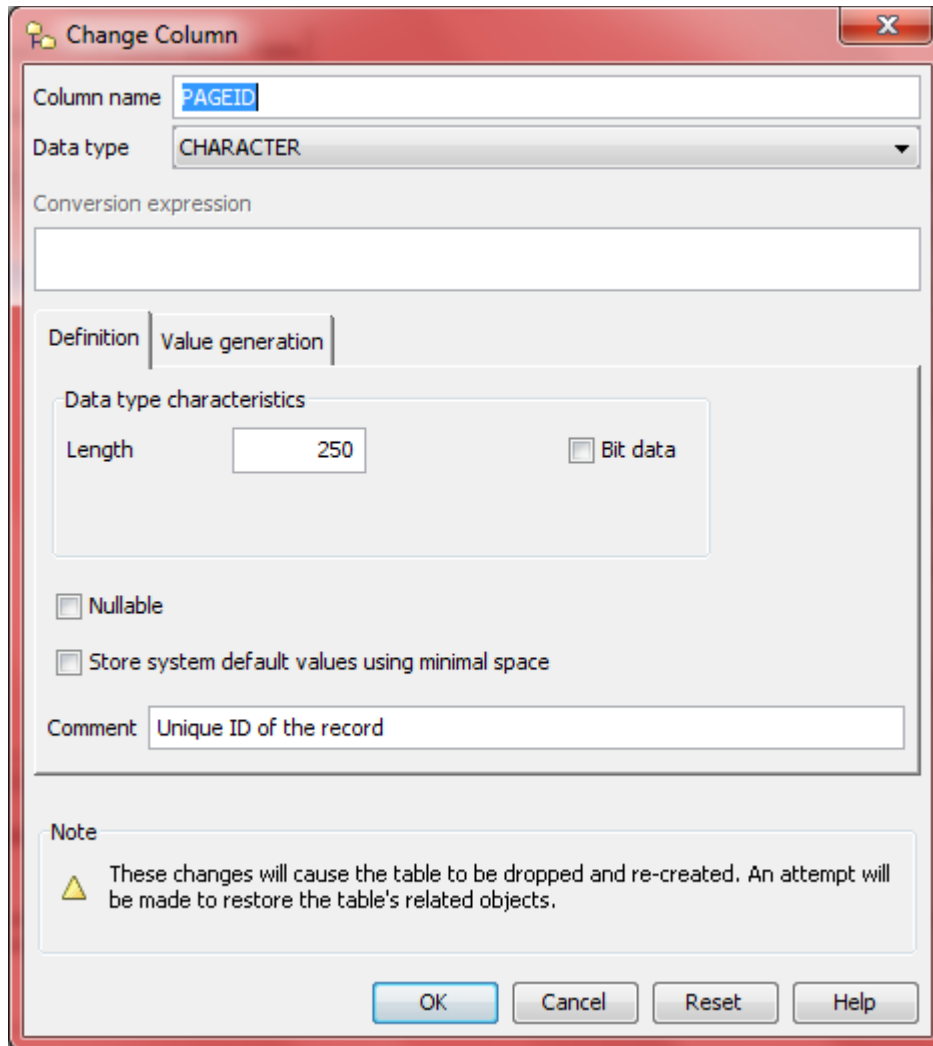
Please pay attention at the buttons before you click them. You will have a better understanding of the IBM Control Center for your DB2 database environment. In turn, if you need to troubleshoot the database, using that tool, you will have a pretty good idea where to start.



a Message indicator form pops open, we will give it a moment to complete...



We're keeping the datatype as is...



We should click OK here... the process will go through a series of steps. All you have to do is follow the defaults but we would suggest you read the information being provided in each pop up form so you are aware of what Control Center is doing while altering your database column.

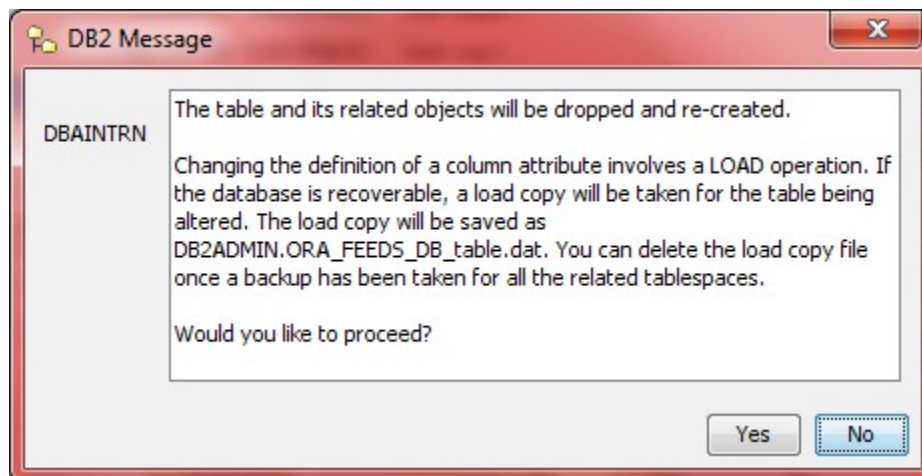
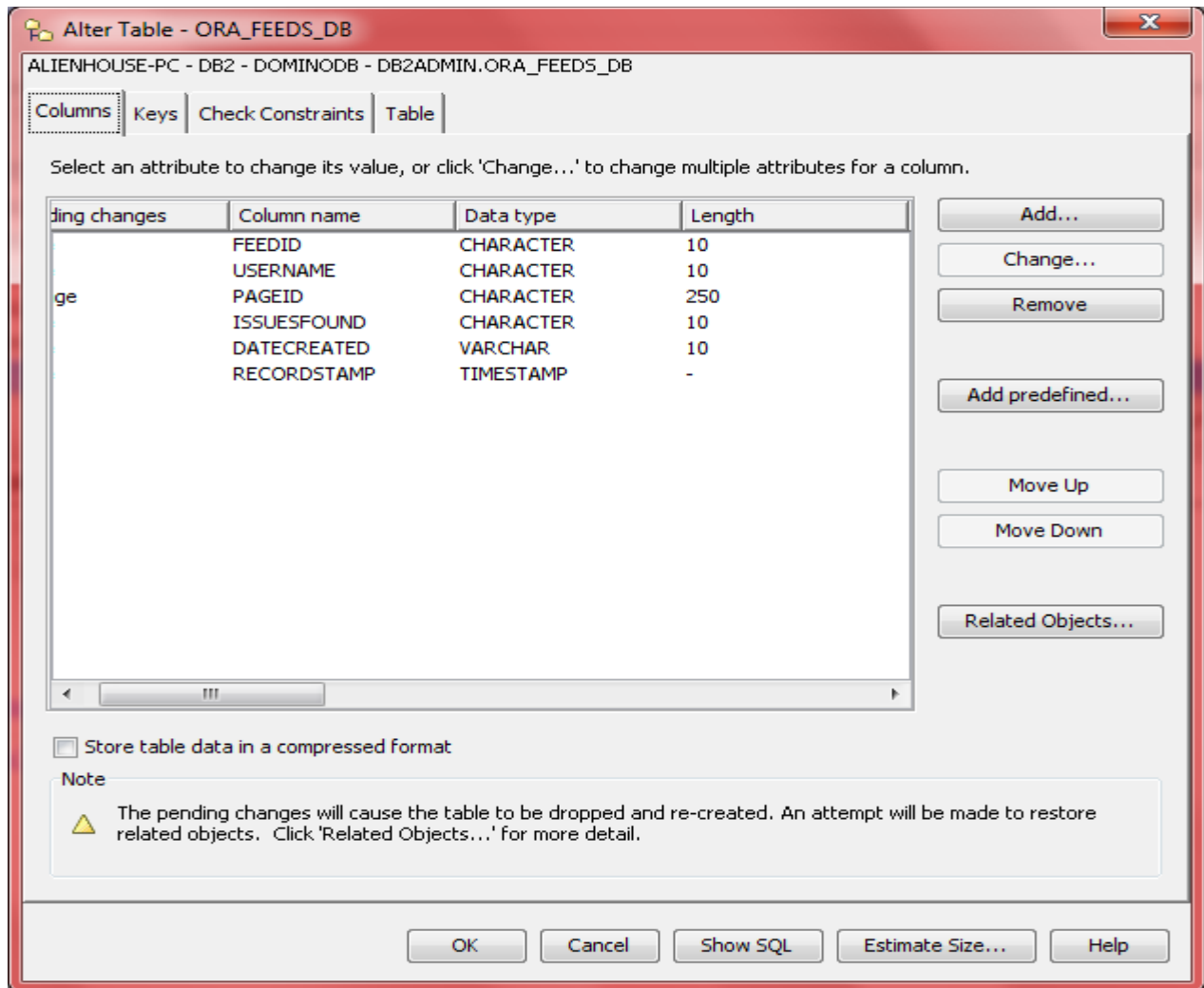
You could as well record the datatype for this column as VARCHAR if you wanted to. Visit the IBM website, Google, or your preferred search engine to get a handle on what certain Data Types mean and how to use them in your environment. You should also play around with them to see their behaviour and what best works for your project.

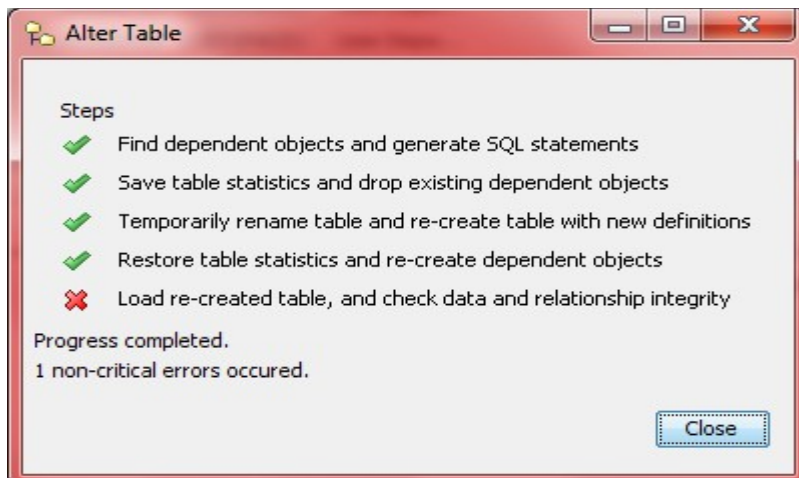
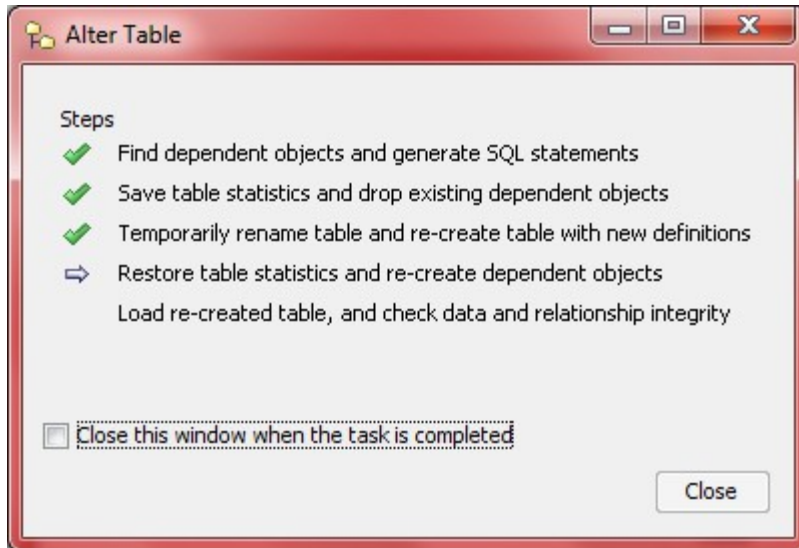
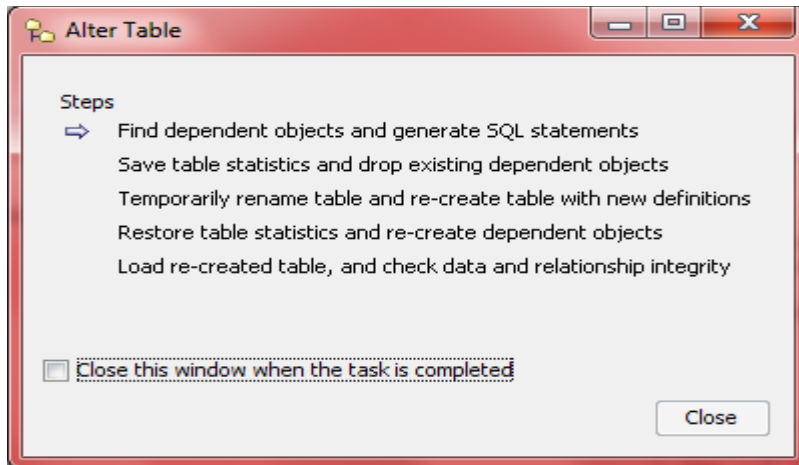
Here is an IBM website you can use to get more information about Data Types.

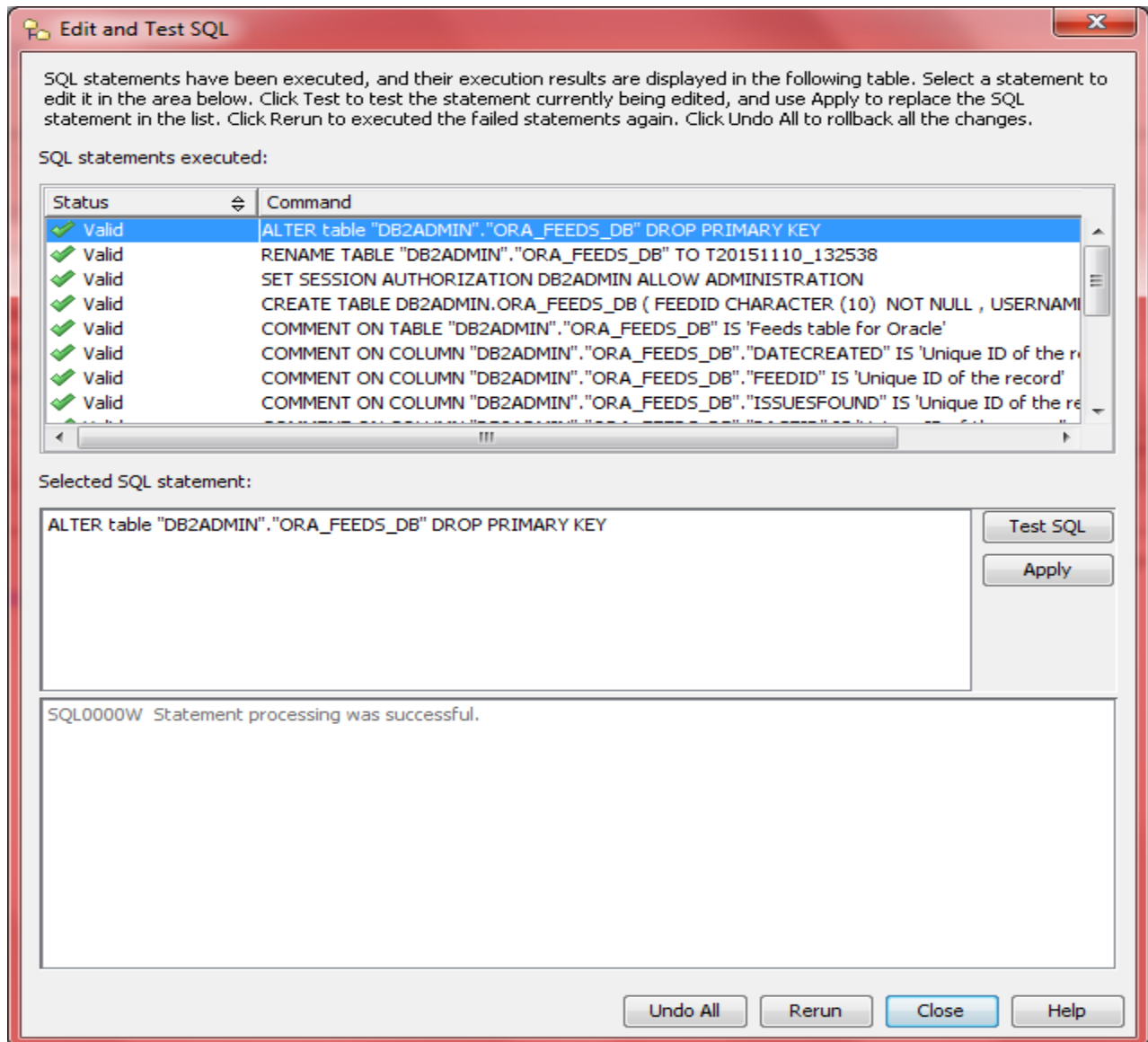
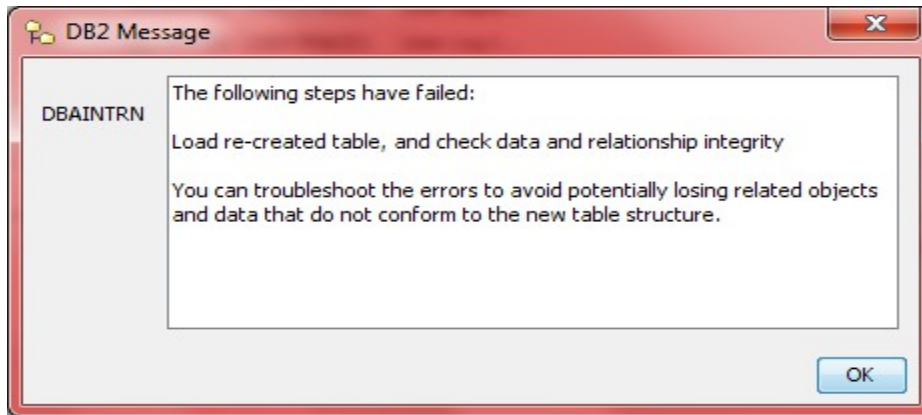
https://www.ibm.com/support/knowledgecenter/en/SSEPEK_10.0.0/sqlref/src/tpc/db2z_datatypesintro.html

Please be aware, as of this writing, the URL posted here is valid. IBM may render this information obsolete or the web page may have moved to a different location. Rest assured, IBM is usually pretty

good at redirecting you to a new page.







Edit and Test SQL

SQL statements have been executed, and their execution results are displayed in the following table. Select a statement to edit it in the area below. Click Test to test the statement currently being edited, and use Apply to replace the SQL statement in the list. Click Rerun to executed the failed statements again. Click Undo All to rollback all the changes.

SQL statements executed:

Status	Command
✓ Valid	COMMENT ON COLUMN "DB2ADMIN"."ORA_FEEDS_DB"."RECORDSTAMP" IS 'Unique ID of the record'
✓ Valid	COMMENT ON COLUMN "DB2ADMIN"."ORA_FEEDS_DB"."USERNAME" IS 'Unique ID of the record'
✓ Valid	ALTER TABLE "DB2ADMIN"."ORA_FEEDS_DB" ADD CONSTRAINT "CC1447179327105" PRIMARY KEY ("RECORDSTAMP", "USERNAME")
✓ Valid	CREATE TABLE "DB2ADMIN"."T20151110_132538_EXCEPTION" LIKE "DB2ADMIN"."ORA_FEEDS_DB"
✓ Valid	SELECT "FEEDID", "USERNAME", CHAR ("PAGEID", 250), "ISSUESFOUND", "DATECREATED" FROM "DB2ADMIN"."ORA_FEEDS_DB"
✗ Invalid	LOAD FROM CSR20151110_132538 OF CURSOR MESSAGES "C:\ProgramData\IBM\DB2\DB2CC\LOADMSG.DAT"
✓ Valid	SET INTEGRITY FOR "DB2ADMIN"."ORA_FEEDS_DB" IMMEDIATE CHECKED FORCE GENERATED

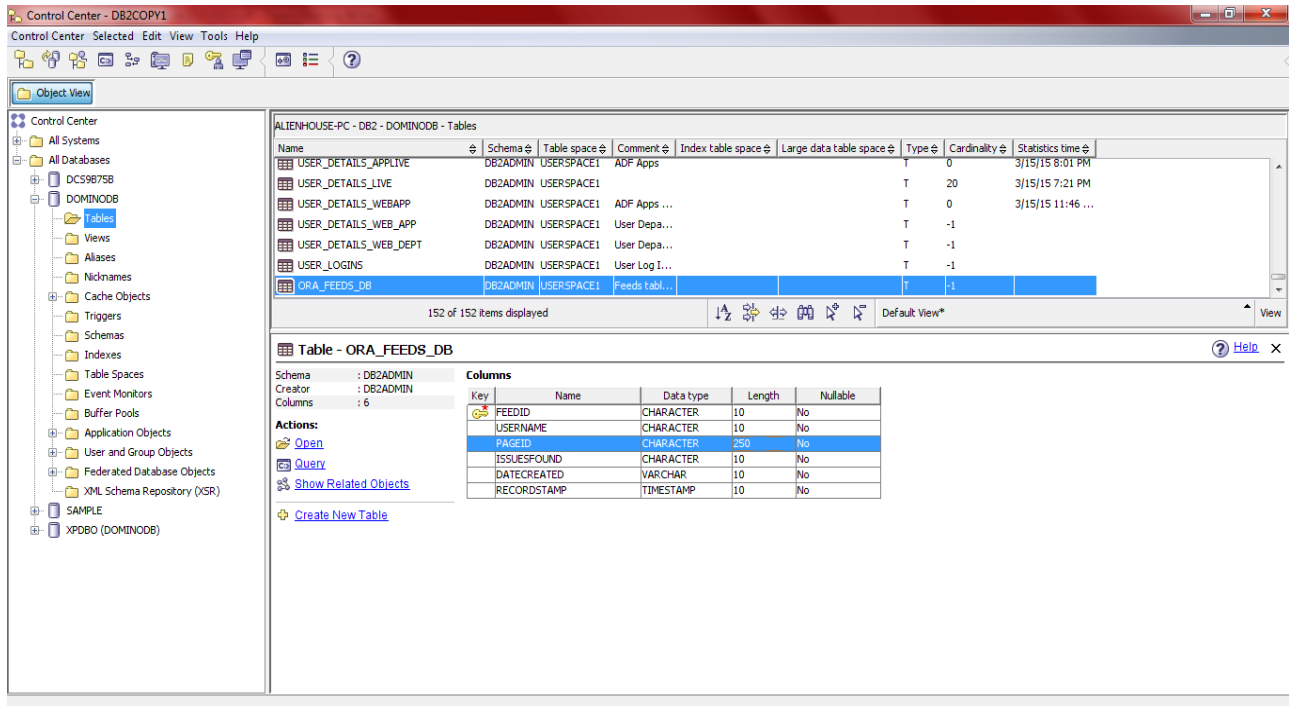
Selected SQL statement:

```
ALTER table "DB2ADMIN"."ORA_FEEDS_DB" DROP PRIMARY KEY
```

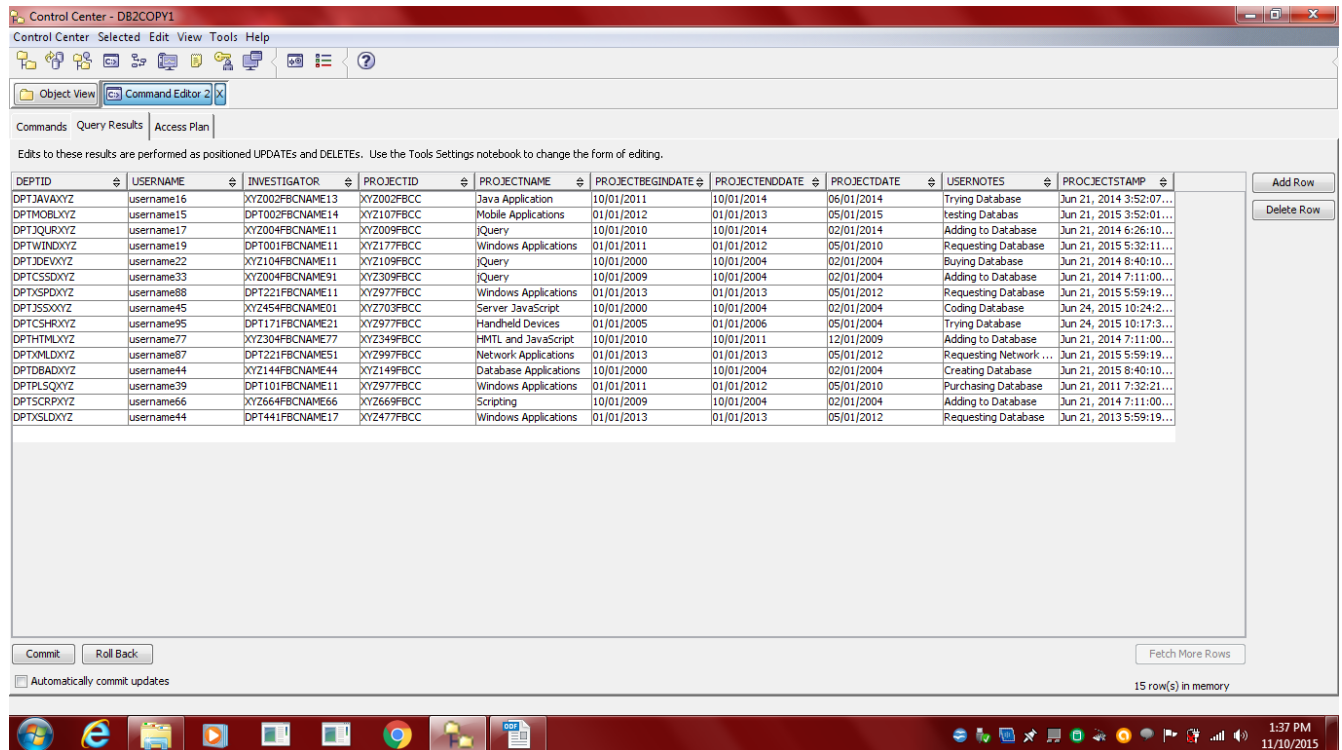
Test SQL
Apply

SQL0000W Statement processing was successful.

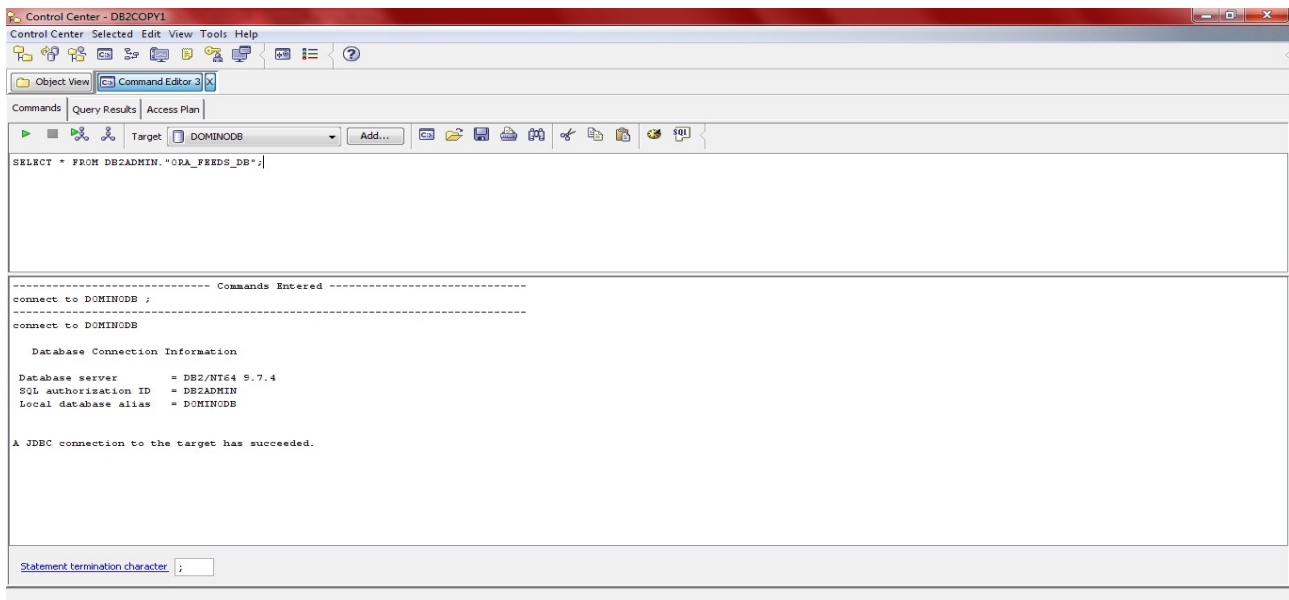
Undo All Rerun Close Help



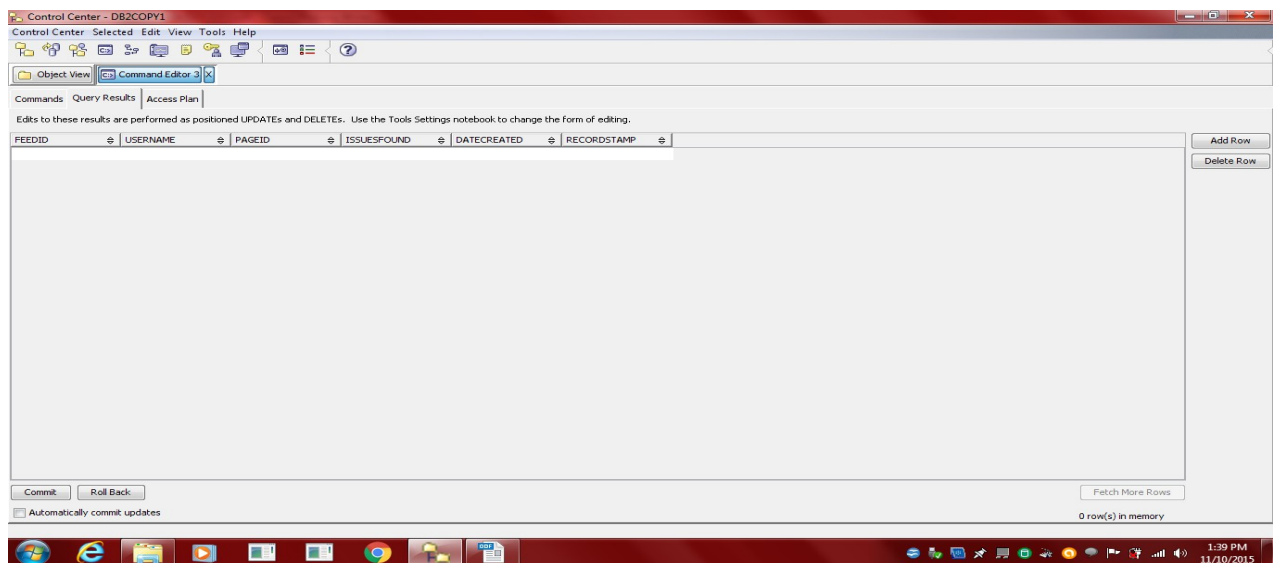
Hint: Test everything! It's good to also launch other tables you've touched, make sure they still work...



Running the new table to see if it works



running the SQL command to test the table, without a doubt, it is going to be empty at this point



Okay, let's log out, pull up JDeveloper, modify button code to add table name: ORA_FEEDS_DB

Conclusion:

Modification to IBM DB2 table column 'pageid' completed successfully. We are going to run IBM Domino Designer to make available the XML so Oracle JDeveloper can grab URL data into DB2.

See Next Journal Entries document...

Version: 2015.11.10.1.39.PM

Credits

eBook Content
Dököll Solutions, Inc.

eBook Cover Logo
IBM