

## Build Oracle Database Using Load and Unload Methods

Suppose we have already created a user account with five tables: LogIn, Faculty, Course, Student and StudentCourse. Now we want to create another user account with the same five tables. We can use Unload and Load data methods provided by the Utilities button in Oracle Database 10g XE. In the following process, we discuss how to add tables into a new user account using the Unload and Load data methods.

Suppose we have created five tables in the Administrator account, and now we want to create a new user account called CSE\_DEPT with password `reback` and with the same five tables as those in our Administrator account. To do that, first we need to create a new user account as we did in section 2.11.1 in Chapter 2. The point is that you need to log on as an Administrator to create a new user account CSE\_DEPT.

After the new user CSE\_DEPT is created, we need to add five tables from the Administrator account (database) into the CSE\_DEPT account (database). To do that, we need to perform the following steps:

1. Unload five tables (one by one) from the Administrator account to temporary text files
2. Load five tables (one by one) from the temporary text files into the CSE\_DEPT account

Now let's open Oracle Database 10g XE to perform this data table copying and adding process to the new user CSE\_DEPT. Suppose that the user CSE\_DEPT has been created with the password `reback`.

Open and log on as Administrator to Oracle Database 10g XE, click Utilities button and select Data Load/Unload|Unload item to open the Unload page. Then click the Unload to Text icon to open the Unload to Text page. On the opened page, click the Next button to go to the next page, which is shown in Figure F.1.

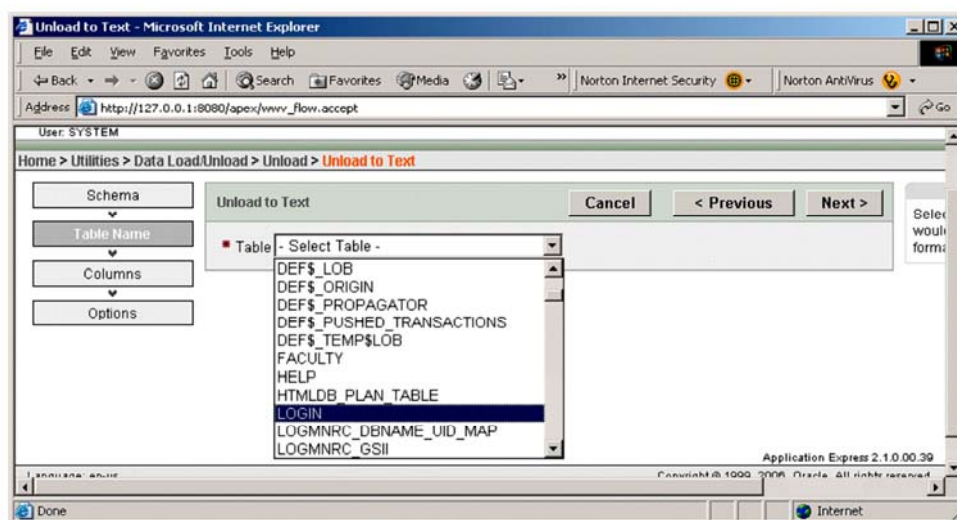


Figure F.1 Select data table

Click the drop-down arrow from the Table combo box and select the desired data table we want to unload. We need to unload all five tables, however right now we need to unload the first table – LogIn. Select that table and click the Next to go to the next page.

In the next page, select all columns by highlighting them, as shown in Figure F.2.

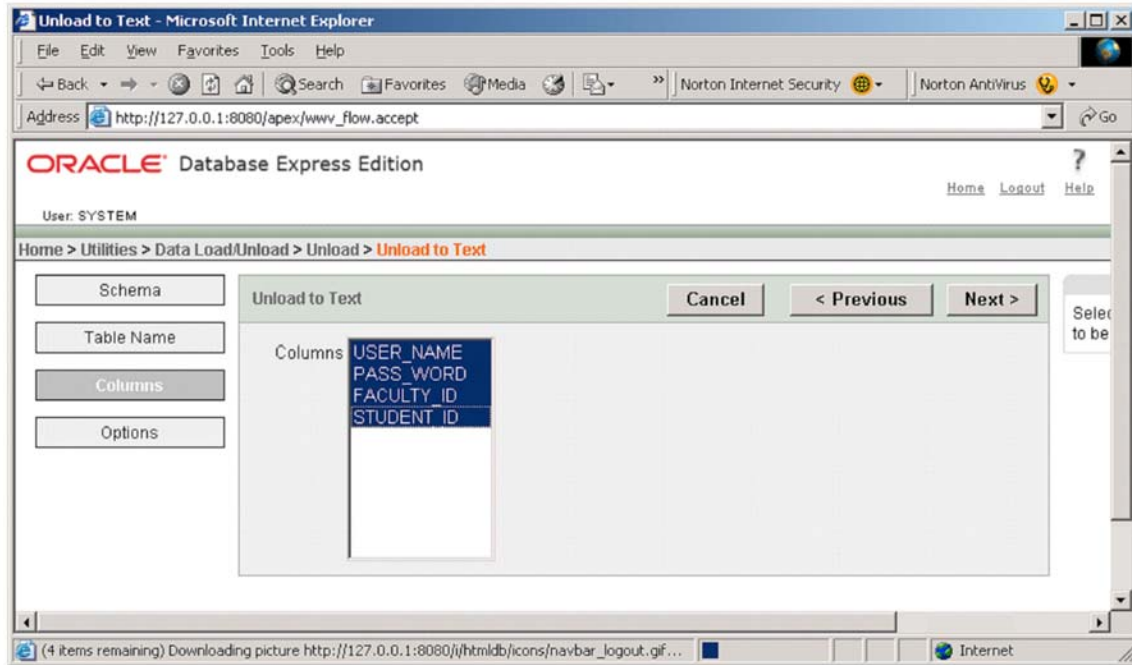


Figure F.2 Select all columns in LogIn table

Click the Next button to go to the next page.

On the opened next page, keep the default selections and check the Include Column Names checkbox, which is shown in Figure F.3.

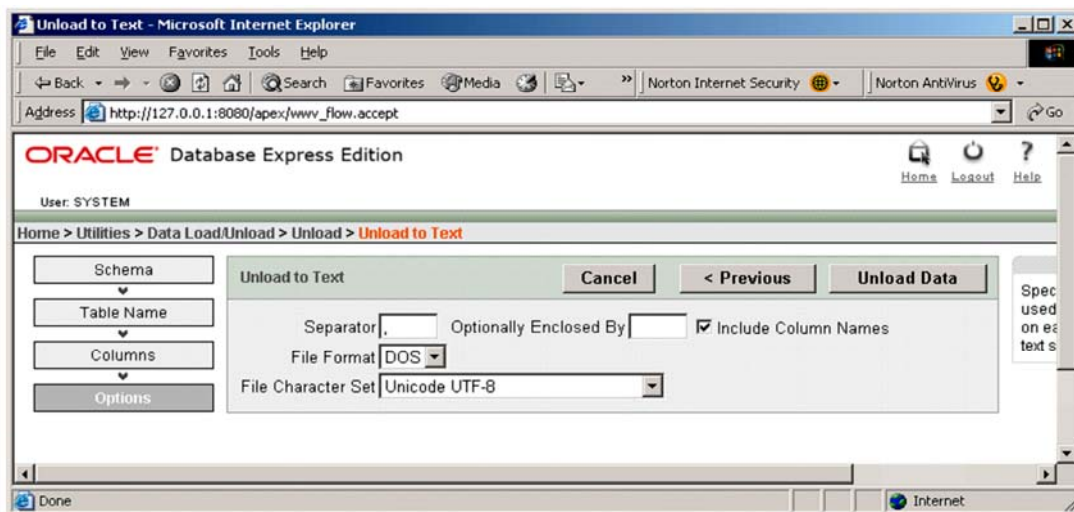


Figure F.3 Include the column names

Click the Unload Data button to begin to unload the data for this table.

Click the Save button to the popup message box to save or unload this data file into a temporary text file, **login.txt**, to the Temp folder, which is shown in Figure F.4.

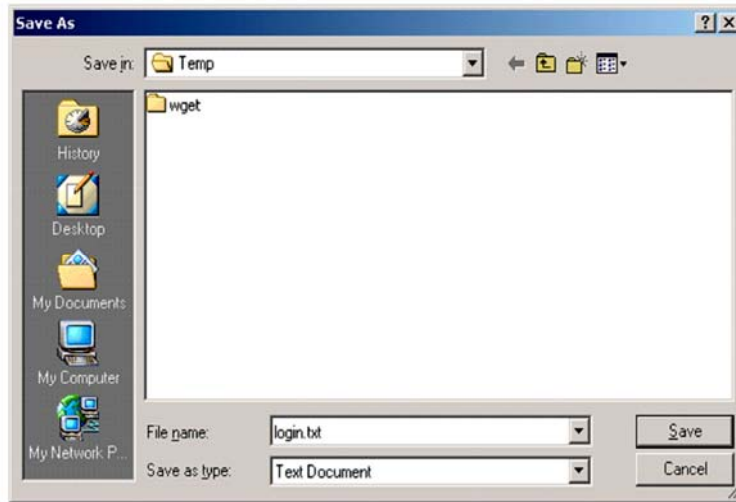


Figure F.4 Save login.txt file

Click the Save and then Close buttons to finish this unloading data process.

Click the Home icon to return to the Home page of the Oracle Database 10g XE.

In a similar way, we can finish unloading all other four tables: Faculty, Course, Student and StudentCourse.

After all five tables have been unloaded, log out the database and log in as the new user CSE\_DEPT with the password reback. Now we need to load all five tables into our new user account (database) CSE\_DEPT.

Click the Utilities button and select Data Load/Unload|Load item to open the Load Data page. Then click the Load Text Data button to open the next page, which is shown in Figure F.5.

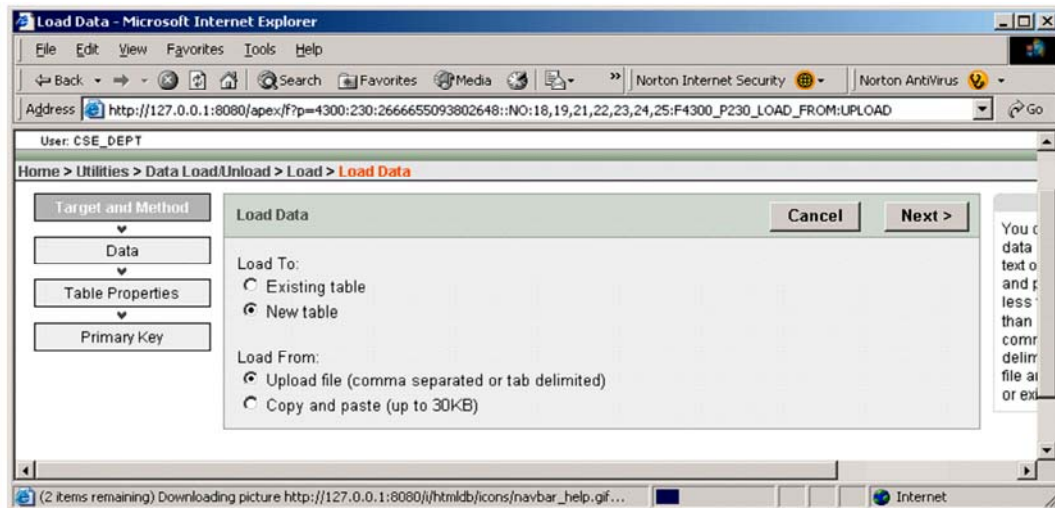


Figure F.5 Load Text Data page

Since we need to load this data from a temporary text file into a new table, so keep the default selections and click the Next button to go to the next page.

Click the Browse button to find our temporary text data file **login.txt**, select it and click the Open button to add it into the File textbox, as shown in Figure F.6.

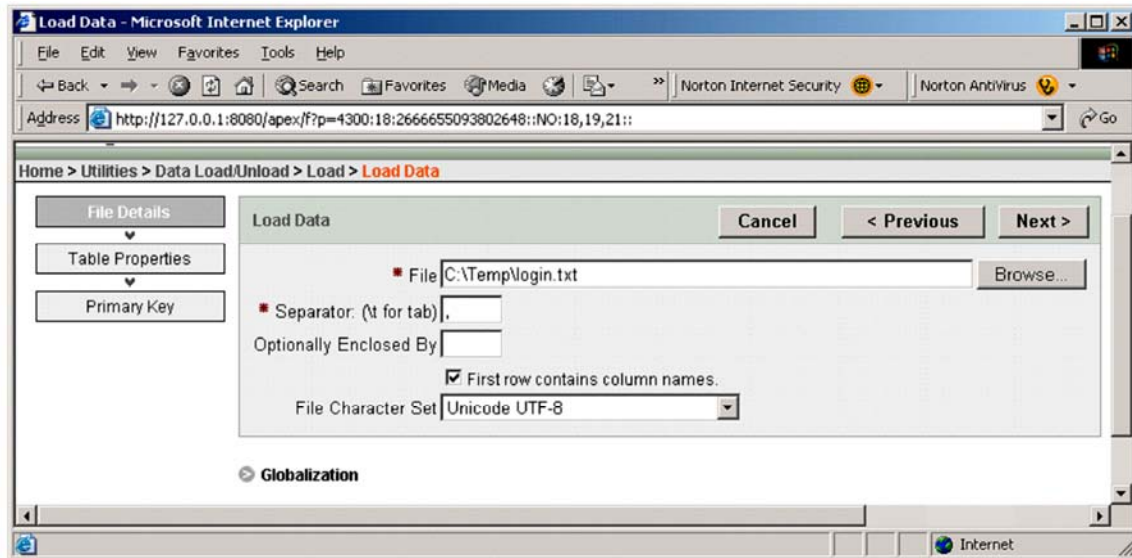


Figure F.6 Select the temporary text file login.txt

Click the Next button to go to the next page.

Enter LogIn into the Table Name textbox, which is shown in Figure F.7.

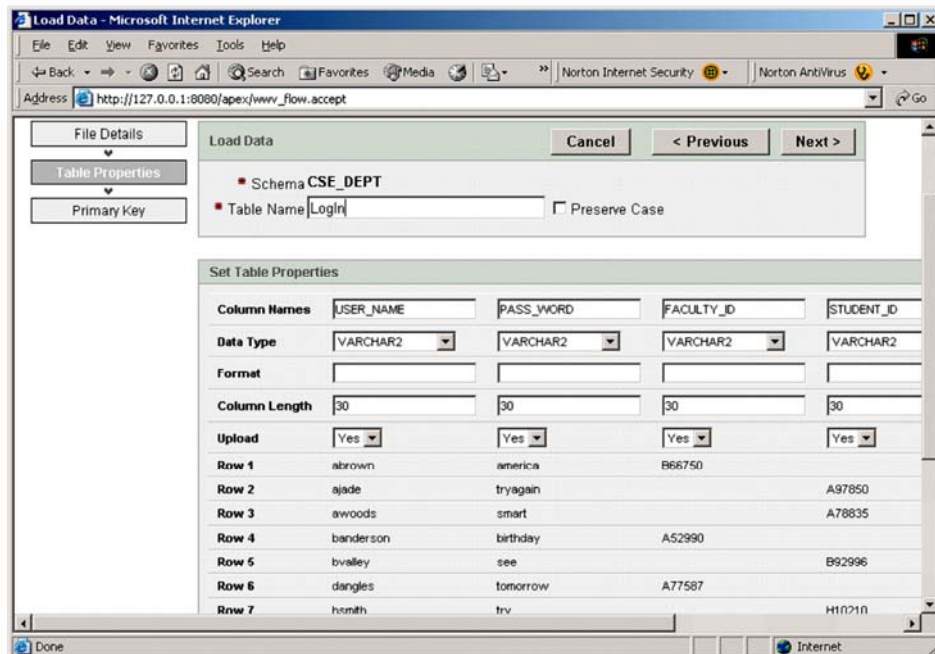


Figure F.7 Enter the LogIn into the Table Name textbox

Click the Next button to go to the next page.

Check the **Use an existing column** checkbox for the Primary Key From item and **Not generated** checkbox for the Primary Key Population item since we want to use an existing column USER\_NAME in the LogIn table as the primary key, and we do not want to use any sequence number as our primary key. Also select the USER\_NAME column from the Primary Key textbox since we want to use this column as our primary key. Your finished Primary Key page is shown in Figure F.8.

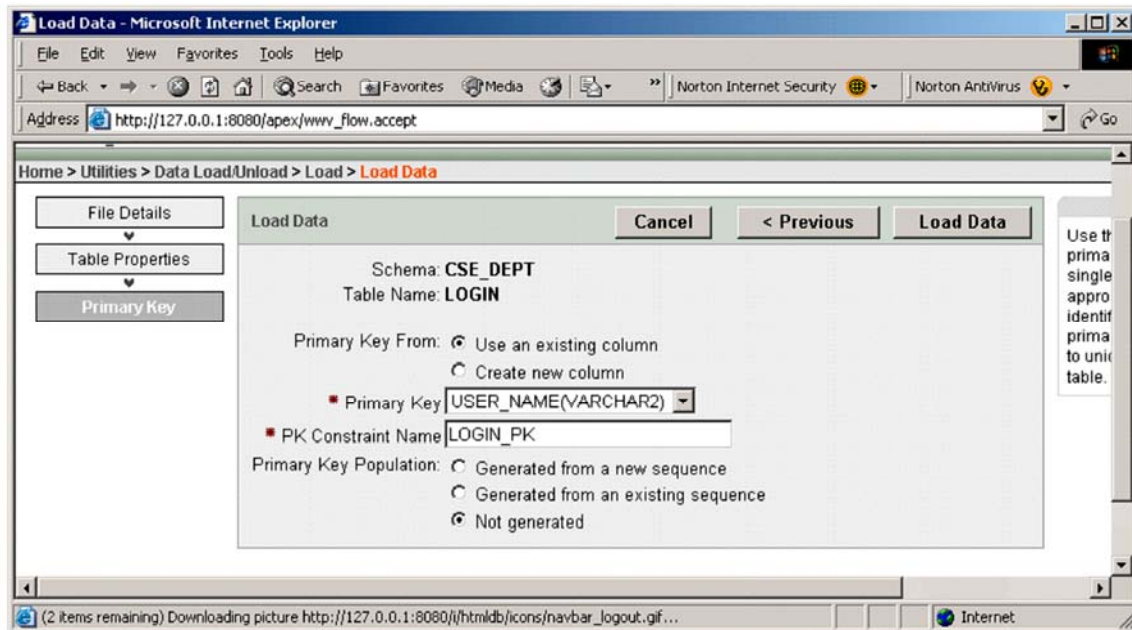


Figure F.8 The Primary Key page

Click Load Data button to begin loading the data. The next page is used to indicate whether this data loading is successful or not, which is shown in Figure F.9.

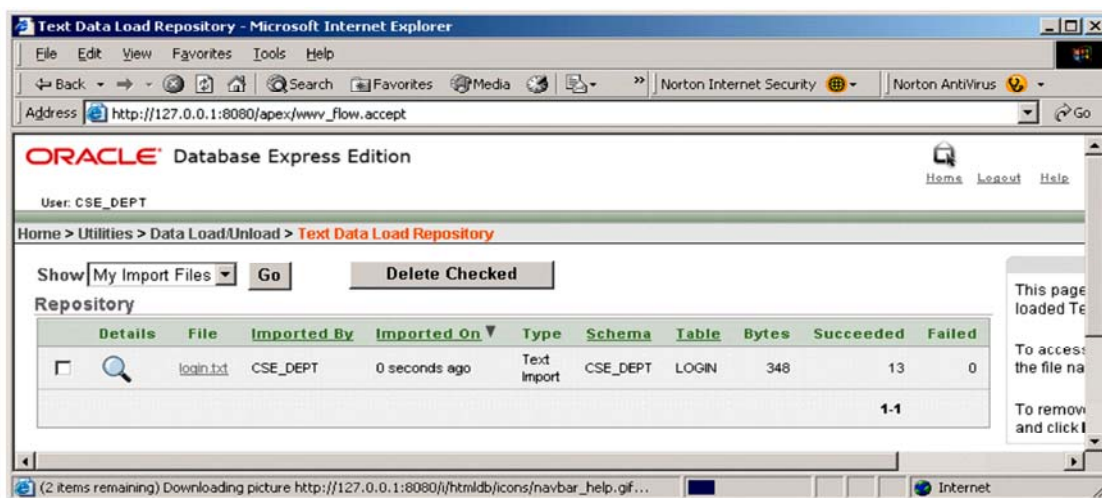


Figure F.9 Data loading result



A number 13 is shown under the Succeeded tab, which means that this data loading is successful.

Click the Home icon to return to the Home page of the Oracle Database 10g XE.

Now let's continue to load data for the Faculty table.

Click the Utilities button and select Data Load/Unload|Load item to open the Load Data page. Click the Load Text Data button to open the next page, and click the Next button to go to the next page.

Click the Browse button to find our temporary text data file **faculty.txt**, and click the Open button to add it into the File textbox, which is shown in Figure F.10.

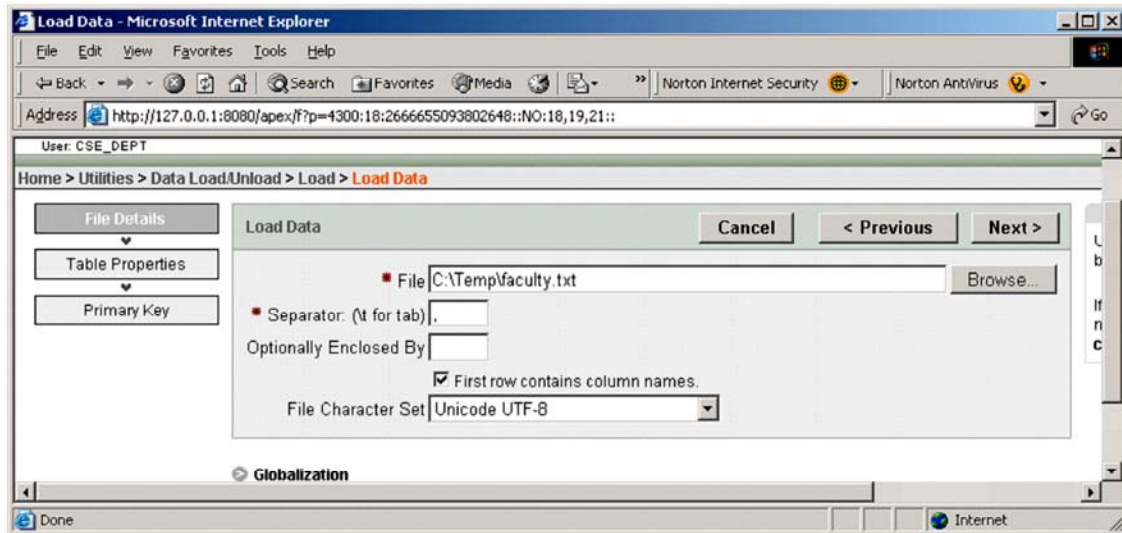


Figure F.10 The File Details page

Click the Next button to go to the next page.

Enter Faculty into the Table Name textbox, which is shown in Figure F.11.

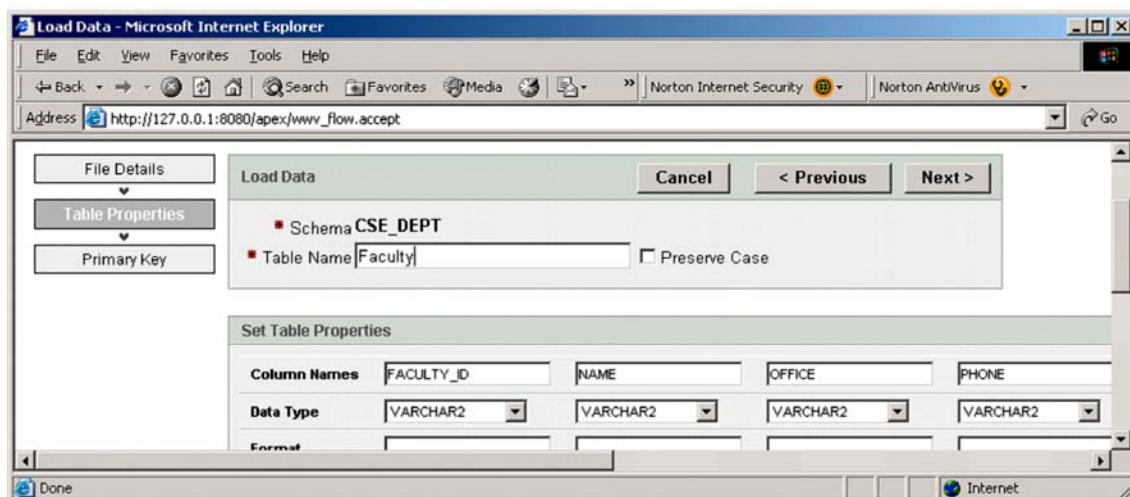


Figure F.11 The Table Properties page

Click the Next button to go to the next page.

In the opened Primary Key page, check the **Use an existing column** checkbox for the Primary Key From item and **Not generated** checkbox for the Primary Key Population item since we want to use an existing column FACULTY\_ID in the Faculty table as the primary key, and we do not want to use any sequence number as our primary key. Also select the FACULTY\_ID column from the Primary Key textbox since we want to use this column as our primary key. Your finished Primary Key page is shown in Figure F.12.

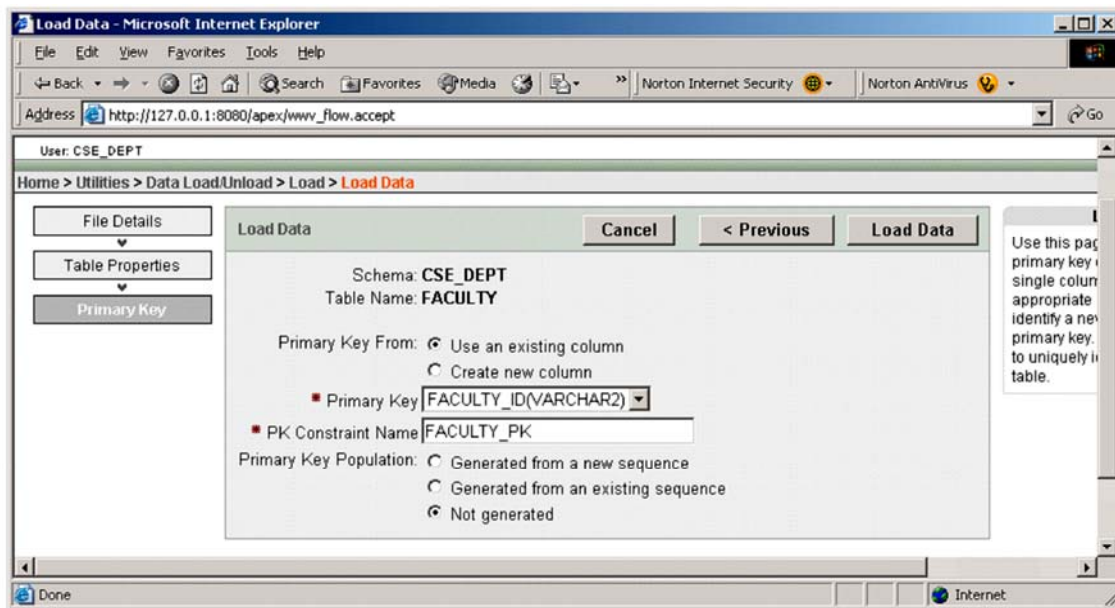


Figure F.12 The Primary Key page

Click the Load Data button to begin to load the data. The next page is used to indicate whether this data loading is successful or not, which is shown in Figure F.13.

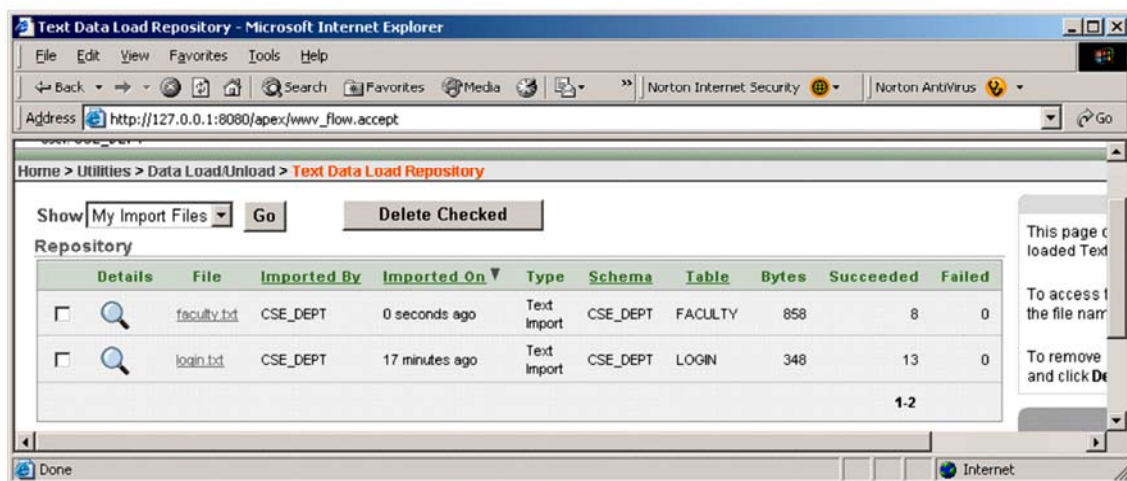


Figure F.13 The data loading result page

A number 8 is shown under the Succeeded tab, which means that this data loading is successful.

Click the Home icon to return to the Home page of the Oracle Database 10g XE.

In a similar way, we can finish loading all other three tables: Course, Student and StudentCourse.

The primary keys for these tables are:

- **course\_id** for Course table
- **student\_id** for Student table
- **s\_course\_id** for the StudentCourse table

Use these as the primary keys for each table.