

**Oracle FLEXCUBE Investor Servicing®  
Upload Adapter Development Guide**

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# 1 Preface

This document upload adapter development Guide explains the steps to create spreadsheet based upload macro that helps to upload data into FLEXCUBE IS. These uploads are used in migrations.

## 1.1 Audience

This upload adapter development is intended for FLEXCUBE Application Developers/Users who require to do the following tasks:

- Create spreadsheet that uploads data into FLEXCUBE IS for identified tables

## 1.2 Related documents

For more information on Interfaces, see these resources:

- *FCIS-FD01-01-01-Development Overview Guide*
- *FCIS-FD04-01-01-Interface Getting started*

## 1.3 Conventions

The following text conventions are used in this document:

### Convention Meaning

**boldface** Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select.

*italic* italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

monospace Monospace type indicates language and syntax elements, directory and file names, URLs, text that appears on the screen, or text that you enter.

## 1.4 Hypothetical Example used

The following is the work example used in this document.

- FLEXCUBE IS has the function ID UTDATREP (Authorized Representative Details).  
This is a maintenance function ID. This requires upload adapter spreadsheet.

Spread sheet with work sheet 'BULKAUTHREPIMPORTTBL' is created.

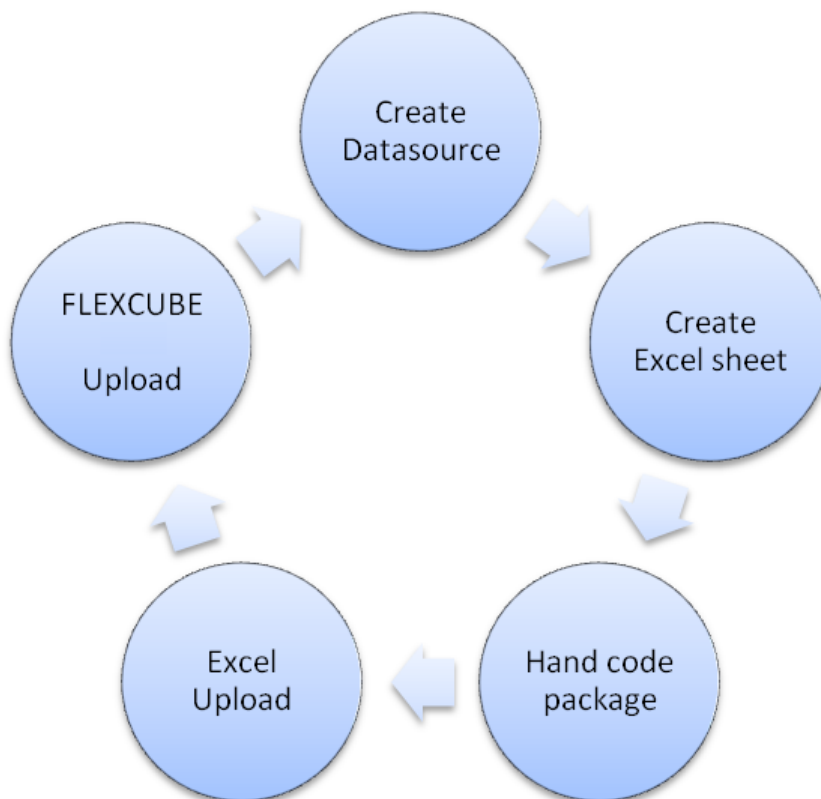
## 2 Introduction

### 2.1 How to use this Guide

- [Chapter 2, "Introduction"](#)  
This is an introduction section.
- [Chapter 3, "Upload adapter Overview"](#)  
This section describes the Upload adapter
- [Chapter 4, "Back end Flow"](#)  
This section describes the backend flow.
- [Chapter 4, "Check List"](#)  
This section contains the checklist for upload adapter

## 3 Upload Adapter Overview

This section describes the overview of the Upload adapter

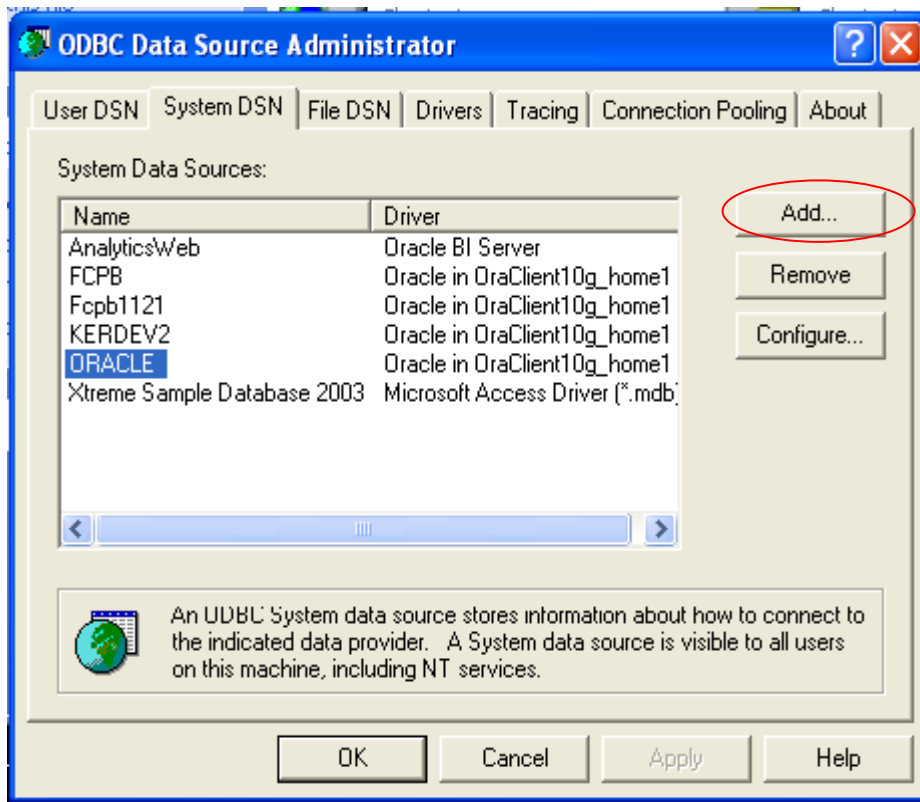


## 3.1 Creation of Data Source

### Create an ODBC Data Source

An ODBC data source is needed to import schema information about a data source into an Oracle Database. To create an ODBC data source, perform the following steps:

- Click **Start > Control Panel > Administrative Tools > Data Sources (ODBC)** to open the ODBC Data Source Administrator

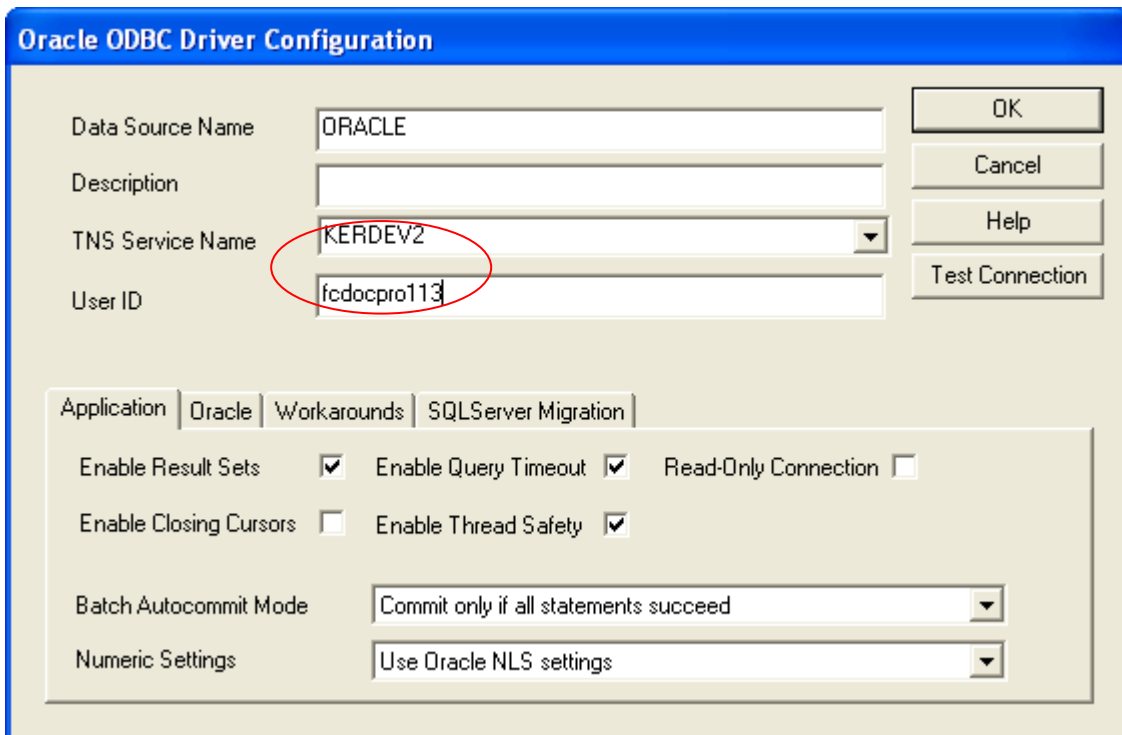
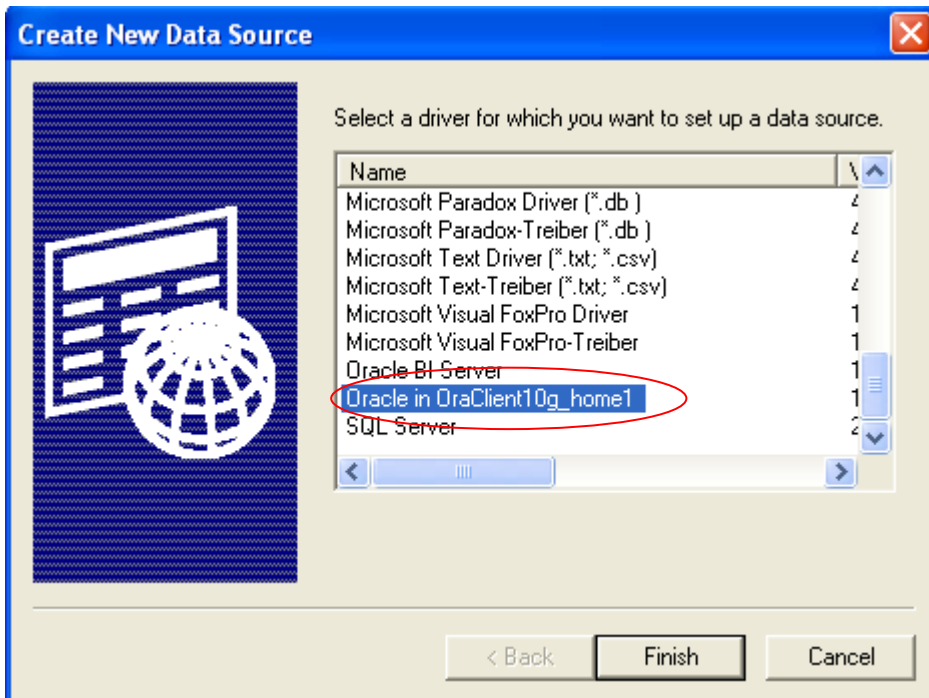


The following screen appears.

We need to add a new Data Source Name

- Click the **System DSN** tab and click **Add**.

The Create New Data Source dialog box opens.



Data Source Name: Name for the DSN

TNS service Name: The TNS name currently working on, where the table exists.

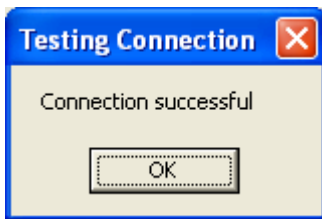
User ID: Schema name for the TNS

On adding it Check for the Connection.

Click on Test Connection



Enter the user name and password for the schema and Click OK



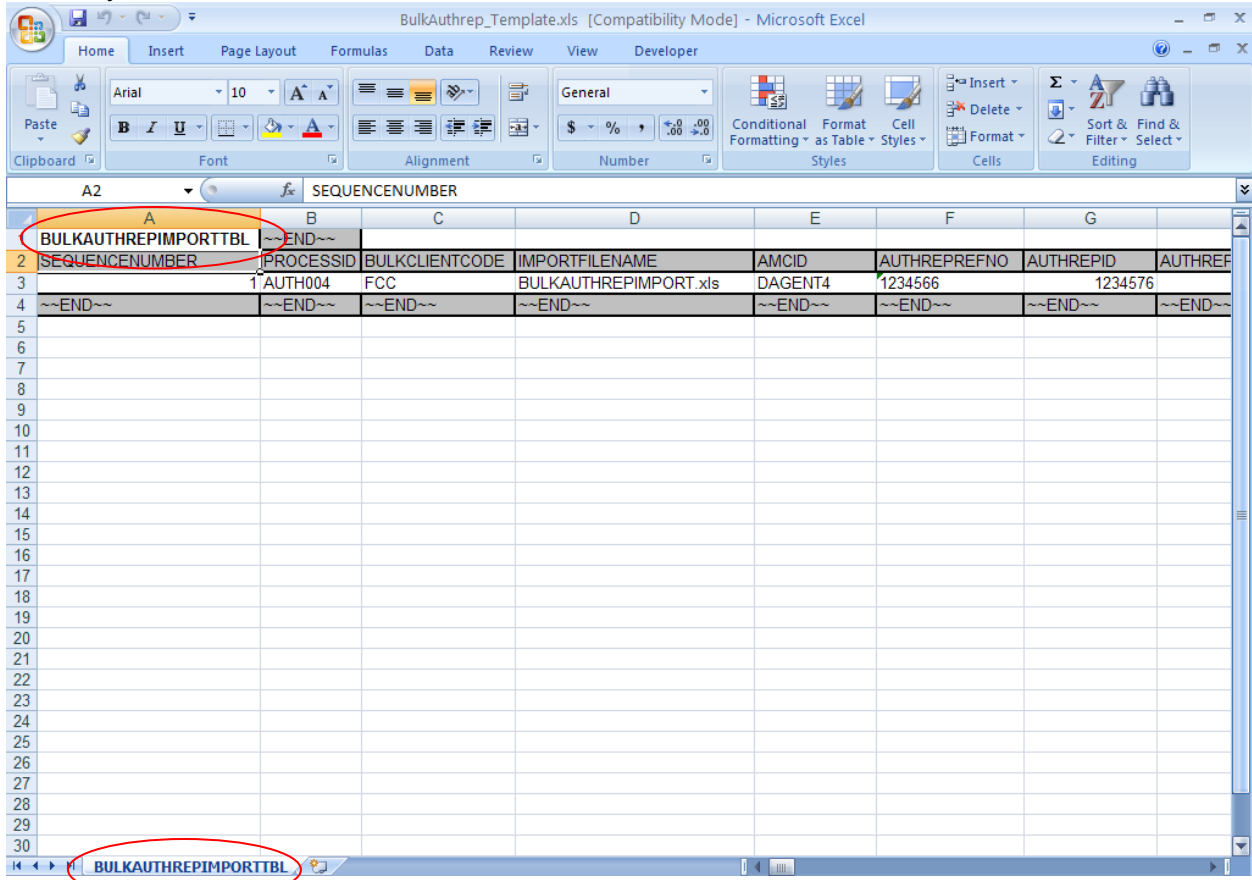
This message is displayed on successful connection.

## 3.2 Creating the Excel sheet

Prepare the EXCEL sheet as shown in the below format. With the sheet name as the table name. Grid A1 contains the name of the table where the data is to be uploaded.

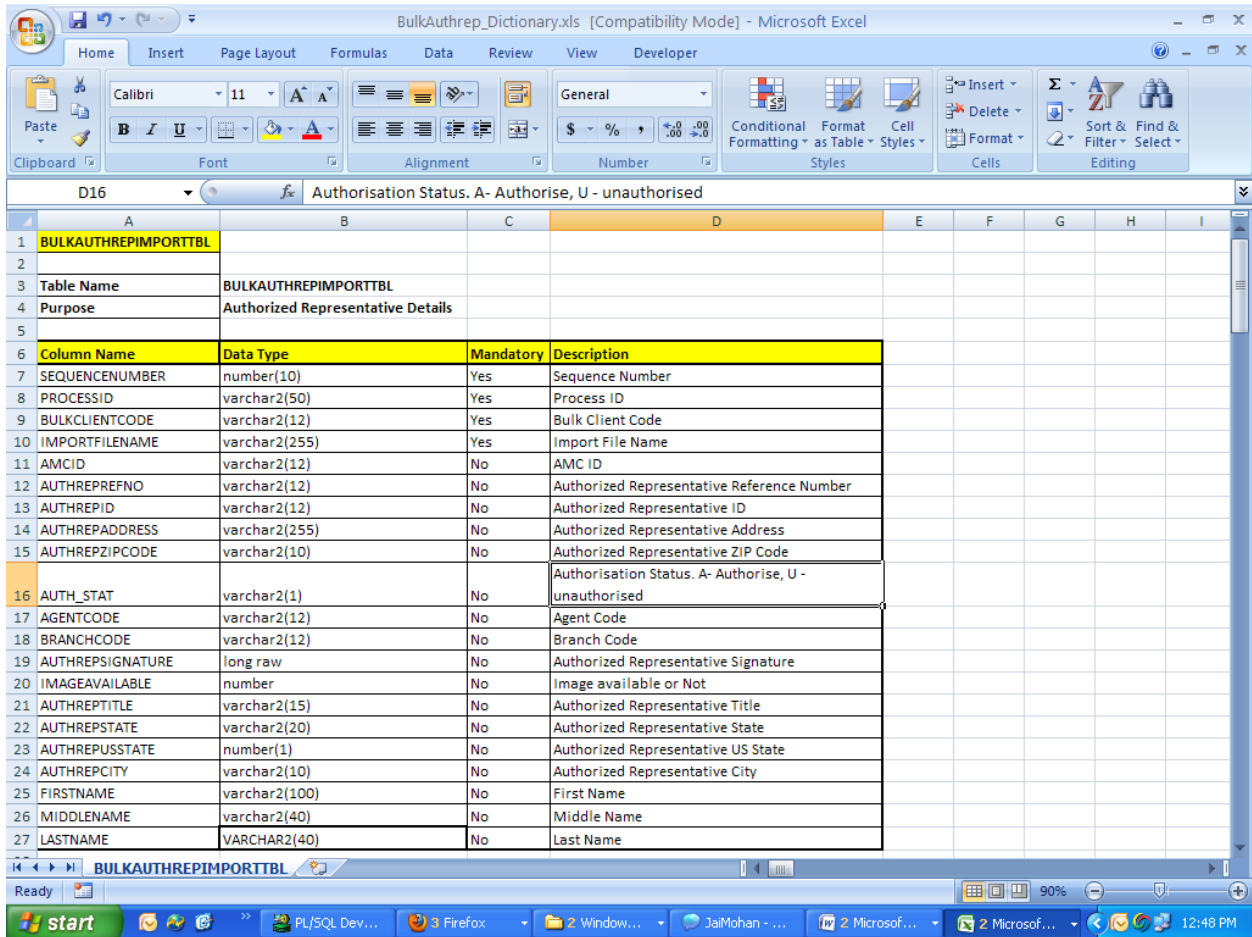
~~ marks the end of the columns.

The data from the sheet will be uploaded to the upload table. The processid should be unique for every record.



The dictionary excel sheet contains the details of the upload table;





### 3.3 Hand coding the package

An upload package is hand coded for insertion of data from the upload table to the master table.

#### 3.3.1 STATIC DATA

A Static data should be inserted into the Paramstbl with the paramcode - UPLOADFORMAT for the respective upload with the unique Paramvalue.

Paramcode	Paramvalue	Paramtext	Paramlanguage	Sortorder
UPLOADFORMAT	AUTHREP	Authorized Representative	1033	1

#### 3.3.2 Edit the SPFMGBULKIMPORTWRAPPER function

SPFMGBULKIMPORTWRAPPER function needs to be edited so that the upload for the user created function id can be constructed.

The functions to be changed :

- SFLOGPROCESSIDS
- SFPROCESS

### SFLOGPROCESSIDS

e.g.

Create a cursor to pick the value from the table BULKAUTHREPIMPORTTBL :

```
SELECT PROCESSID, BULKCLIENTCODE, IMPORTFILENAME, COUNT(*) TOTALRECS
FROM BULKAUTHREPIMPORTTBL A
WHERE NOT EXISTS (SELECT 1
FROM BULKIMPORTLOGTBL B
WHERE B.PROCESSID = A.PROCESSID)
GROUP BY PROCESSID, BULKCLIENTCODE, IMPORTFILENAME;
```

Then ,

```
ELSIF IPLTYPEOFDATA = 'AUTHREP' THEN
  DBG('In type of data AUTHREP');

  FOR EACHPROCESS IN C_AUTHREPDATA LOOP
    DBG('EachProcess.ProcessID ' || EACHPROCESS.PROCESSID);
    DBG('v_ProcessID ' || V_PROCESSID);
    IF (V_PROCESSID = EACHPROCESS.PROCESSID) THEN
      ROLLBACK TO LOGPROCESS;
      OPERRORCODE := 'E-DUPLICATEBULK';
      OPERRORMSG := 'Duplicate data for BulkClientCode/ImportFileName';
      RETURN FALSE;
    ELSE
      V_PROCESSID := EACHPROCESS.PROCESSID;
    END IF;

    IF IPDUPCHECK = 'Y' THEN
      IF NOT SFFILEDUPCHECK(EACHPROCESS.IMPORTFILENAME, IPLTYPEOFDATA)
THEN
          DBG('After return false from sfFileDupCheck');
          ROLLBACK TO LOGPROCESS;
          RETURN FALSE;
        END IF;
      END IF;

      IF NOT SFBULKIMPORTLOG(EACHPROCESS.PROCESSID,
                            EACHPROCESS.IMPORTFILENAME,
                            EACHPROCESS.BULKCLIENTCODE,
                            EACHPROCESS.TOTALRECS,
                            IPLTYPEOFDATA) THEN
```

```
        ROLLBACK TO LOGPROCESS;
        RETURN FALSE;
    END IF;
END LOOP;
END IF;
```

## **SFPROCESS**

Call the respective package using the below code

```
ELSIF IPLTYPEOFDATA = 'AUTHREP' THEN
    DBG('Calling PkgAuthorizedRepresentative.spBulkImportAuthRep');

    PKGAUTHORIZEDREPRESENTATIVE.SPULKIMPORTAUTHREP(EACHPROCESS.PROCESSID,
    IPKEYSTRING,
    IPMODULEID,
    IPCOMMITFLAG);
```

The user created function id is enabled for upload through the hand coded package. Here the function id of the user is added for upload construction such that the function id and action code is passed to the hand coded package for upload.

### **3.4 Upload from Excel to Upload Table**

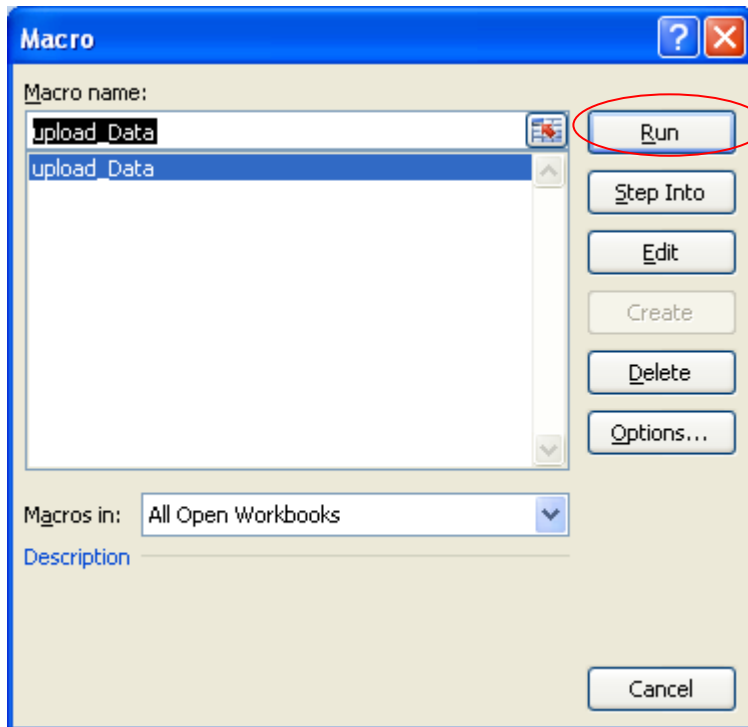
- Click on Developer → Visual basic

Enable the macros in excel sheet.

Create a module with macro name as Upload\_data

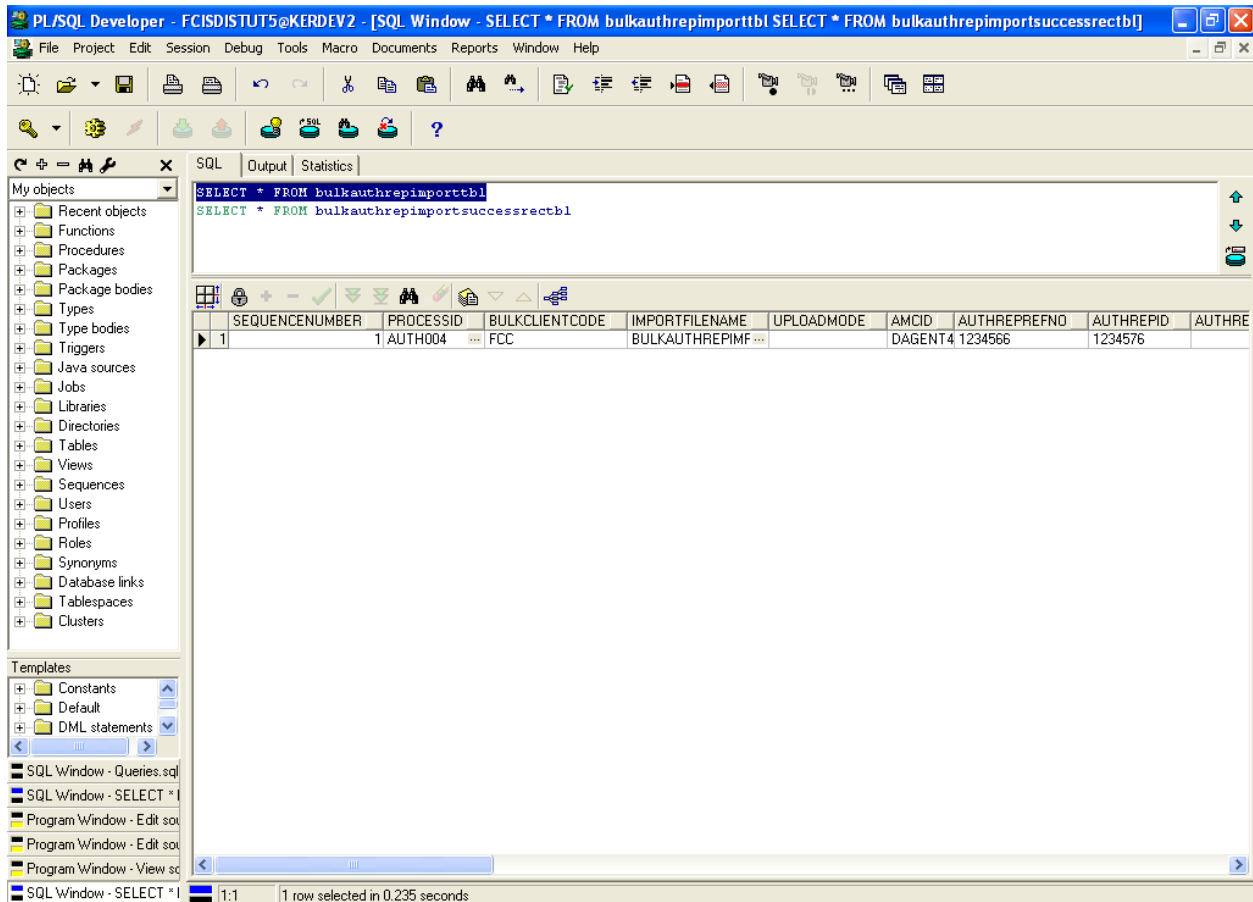
The screenshot shows the Microsoft Visual Basic Editor window for a VBA project named 'VBAPROJECT'. The main window displays the code for a module named 'upload\_Data'. The code includes several global constants for ODBC data source names (DSN) and a subprocedure named 'upload\_Data()'. The 'upload\_Data()' subprocedure contains logic to connect to a database, prompt the user for a sheet name, and execute SQL commands to insert and delete data. A red circle highlights the following line of code:

```
'Global Const dsn_str = "ODBC;DSN=ORACLE;UID=fcdocpro113;PWD=fcdocpro113;"
```



Run the macro created with the name Upload\_data  
Click on RUN

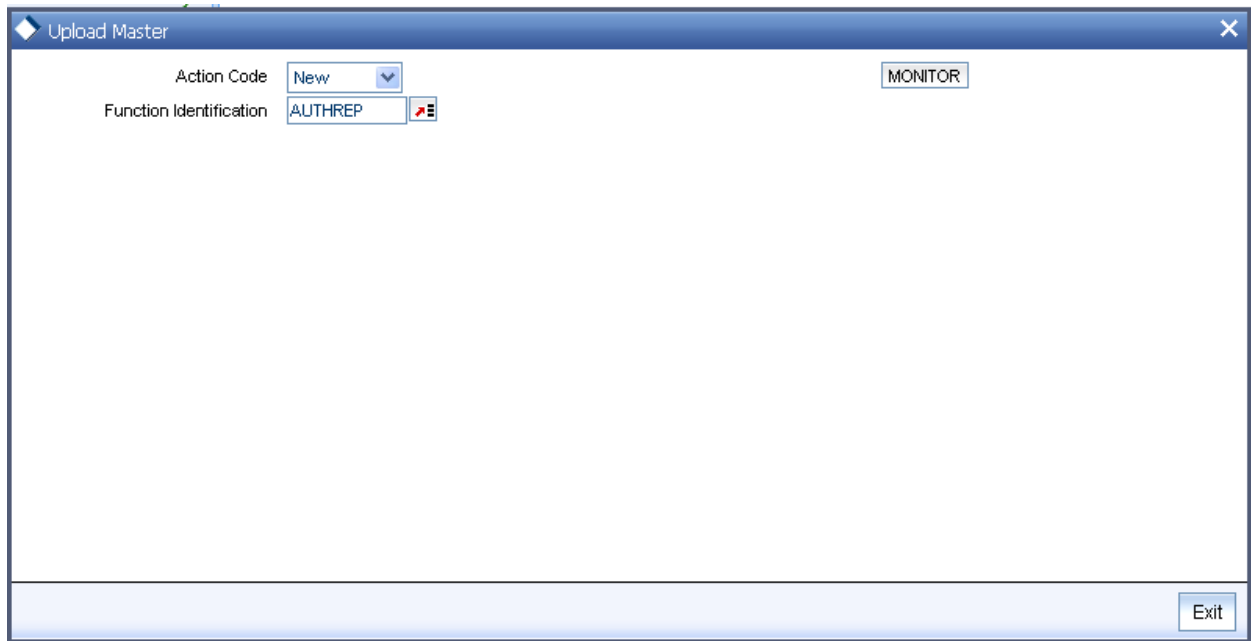
Specify the uploading sheet name from which data is to be inserted in the table.



Now check the table for successful insertion of data from the excel sheet.

### 3.5 CVDUPLD through Flexcube screen

Data is uploaded to the master table through FLEXCUBE using the function id 'CVDUPLD'



The function id is mentioned for which the table is to be uploaded.  
The action code is New

Click on Save option in Flexcube.  
After saving it will move the record into (respective success tables):

Select \* from bulkauthrepimportsuccesrectbl  
The table describes the details of the Upload made for the Function Id.

## 4 Back end Flow

cvpks\_cvduplod\_kernel => Calls the spfmgBulkimportwrapcall with the action code and function ID passed from the frontend.

spfmgBulkimportwrapcall => calls spFmgBulkImportWrapper

spFmgBulkImportWrapper => calls main package

cvpks\_cvduplod\_kernel.fn\_main = > this package checks the function ID and action code  
spFmgBulkImportWrapper. SFPROCESS = > calls

PKGAUTHORIZEDREPRESENTATIVE.SPULKIMPORTAUTHRE which in turn calls  
utpks\_utdatrep\_main.fn\_main to upload the Authorized Representative details.

## 5 Check list

Specification	Data
<b>Tables/Views created in Database?</b> (Yes/No)	Yes

<i>Tables /Views(which are to be uploaded) should be created in Database</i>	
<b>Data source available for Oracle database?(Yes/No)</b>  <i>ODBC data source is created for the uploading the excel sheet check for its availability.</i>	Yes
<b>Creation of Excel Template?(Yes/No)</b>  <i>Specify the name of the excel sheet and data format from which data is to be uploaded into the upload table.</i>	Yes
<b>Enabling the macros and visual basic script? (Yes/No)</b>  <i>Script for connecting the excel sheet to the database schema for insertion of data</i>	Yes
<b>Run the macro created</b>  <i>If successful it will upload the data from the sheet to the upload table else check the debug</i>	Macro name:Upload_data
<b>Check the upload table? (Yes/No)</b>  <i>For successful update to the upload tables check the upload table</i>	Yes
<b>Create a package for the function id?</b>  <i>Hand coded package should be created for the specific function id so as to move the data from the upload table to the base table.</i>	Yes Package name: pkgAuthorizedRepresentative
<b>Edit the Cvpks_Cvduplod_Kernel package? (Yes/No)</b>  <i>Edit the package for function id through which upload has to be done in Flexcube environment.</i>	Yes
<b>Upload through Flexcube? (Yes/No)</b>  <i>Launch the Flexcube screen for function id CVDUPLD and specify the details for the function id and action</i>	Yes

<p><b>Check for Successful upload?(Yes/No)</b></p> <p><i>Check the respective success log table for the particular process ID.eg)</i>  <i>bulkauthrepimportsuccesrectbl</i></p>	<p>Yes</p>
<p><b>Check for successful upload?( Yes/No)</b></p> <p><i>Check the table for which upload is done.</i></p>	<p>Yes</p>





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