

Function ID Development I  
Oracle FLEXCUBE Investor Servicing  
Release 12.4.0.0.0  
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# 1. Preface

This document describes the steps to create FLEXCUBE IS Function ID using extensible Rapid Application Development (Open Development) tool.

## 1.1 Audience

The Open Development Function ID Development book is intended for the FLEXCUBE Application Developers who perform the following tasks with Extensible Open Development:

- Develop the new screen ( also called as function ID)
- To modify the existing screen
- Bug Fixing the existing screen

To Use this manual, you need conceptual and working knowledge of the below:

| Proficiency                                              | Resources                  |
|----------------------------------------------------------|----------------------------|
| FLEXCUBE IS Development overview                         | Development Overview Guide |
| Open Development function ID development getting started | Getting Started            |
| Open Development Reference                               | Reference                  |
| Open Development installation and setup guide            | Installation and Setup     |

## 1.2 Related documents

For more information on Function ID Development, see these resources:

- Overview Guide
- Getting Started
- Reference
- Installation and Setup

## 1.3 Conventions

The following text conventions are used in this document:

### Convention Meaning:

|                 |                                                                                                                                                                   |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select. |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                   |                                                                                                                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>italic</i>                                                                     | 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 name, URLs, text that appears on the screen, or text that you enter. |
|  | Indicates important information                                                                                                                |

## 1.4 **Pre-request**

- Open Development environment with designated project and release details



Refer FCIS-FD05-02-02-Open Development-Installation and Setup for installation and setup of project/release details

- Target FLEXCUBE IS environment

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## 2. Introduction

### 2.1 How to use this Guide

The information in this guide includes:

- [Chapter 2, “Introduction”](#)  
This is introduction section.
- [Chapter 3, “Manual Static data population”](#)  
This section describes the prerequisites before creating a Function Id.
- [Chapter 4, “Header Information”](#)  
This section describes the Header Credentials in detail.
- [Chapter 5, “Preferences”](#)  
This section describes basic functionalities and information about the screen.
- [Chapter 6, “Datasources”](#)  
This section describes the steps required to get started with Function Creation.
- [Chapter 7, “List of Values”](#)  
This section describes steps to add List Of Values definitions.
- [Chapter 8, “Datablocks”](#)  
This section describes the actions to be performed after adding Datasources.
- [Chapter 9, “Screen Layout Design”](#)  
This section describes the steps required to design the Screen Layout.
- [Chapter 10, “Fieldsets”](#)  
This section describes the steps required to map the Fields to specific locations in the Screen.
- [Chapter 11, “Actions”](#)  
This section describes the amendable and web service information.
- [Chapter 12, “Summary”](#)  
This section describes the steps to design the Summary Screen.
- [Chapter 13, “Open Development Tool Files Generation”](#)  
This section describes steps to generate and deploy Open Development Tool Files.
- [Chapter 14, “Testing”](#)  
This section describes steps to Test the created Screen in FLEXCUBE.

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## 3. Manual Static data population

This section explains the data base tables that need to be manually populated to start the Open Development screen development.

### 3.1 CSTB DATA DICTIONARY maintenance

Add rows in CSTB\_DATA\_DICTIONARY for Table/View and columns.

| Column Name | Data Type | Data Length | Constraints |
|-------------|-----------|-------------|-------------|
| TABLE_NAME  | VARCHAR2  | 50          | PRIMARY     |
| COLUMN_NAME | VARCHAR2  | 50          | PRIMARY     |
| LABEL_CODE  | VARCHAR2  | 255         |             |
| FIELD_NAME  | VARCHAR2  | 255         |             |

### 3.2 CSTB LABELS maintenance

Add rows in CSTB\_LABELS for all label code required.

| Column Name       | Data Type | Data Length | Constraints |
|-------------------|-----------|-------------|-------------|
| LABEL_CODE        | VARCHAR2  | 255         | PRIMARY     |
| LANGUAGE_CODE     | VARCHAR2  | 3           |             |
| LABEL_TYPE        | VARCHAR2  | 20          |             |
| LABEL_DESCRIPTION | VARCHAR2  | 4000        |             |

### 3.3 STTB PK COLS maintenance

Add rows in STTB\_PK\_COLS for tables that are part of data sources.

| Column Name      | Data Type | Data Length | Constraints |
|------------------|-----------|-------------|-------------|
| TABLE_NAME       | VARCHAR2  | 30          | PRIMARY     |
| COLUMN_LIST      | VARCHAR2  | 300         |             |
| DATA_TYPE_LIST   | VARCHAR2  | 300         |             |
| DATA_LENGTH_LIST | VARCHAR2  | 100         |             |

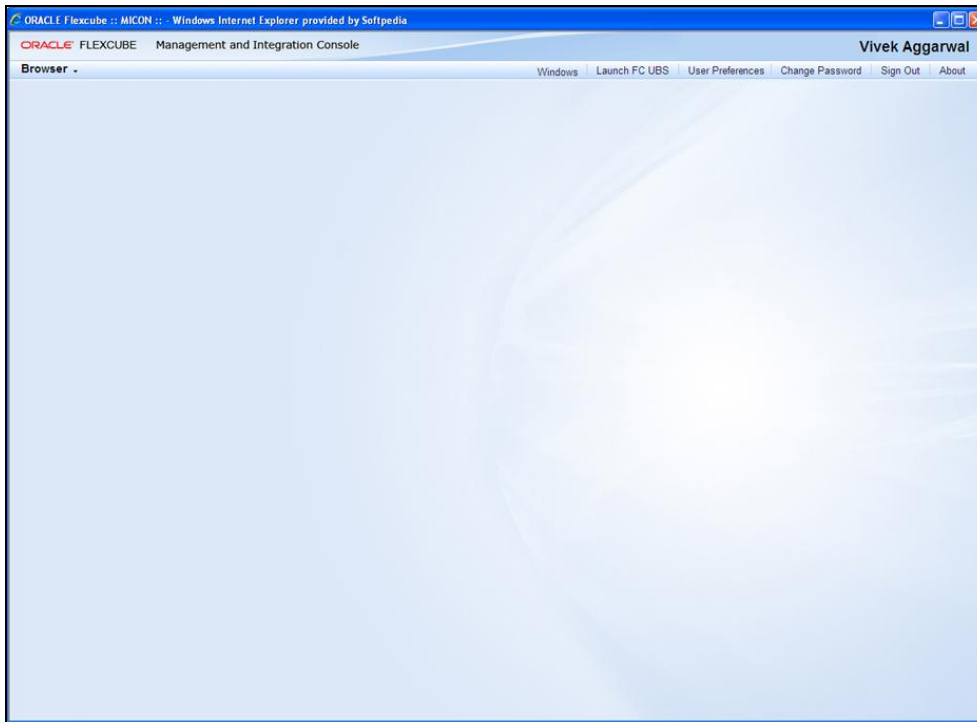
### 3.4 **Table needs to be created in the database schema.**

Database schema that is linked with the flexcube should contain the table or view structure. This will act as the data source to the screen.

---

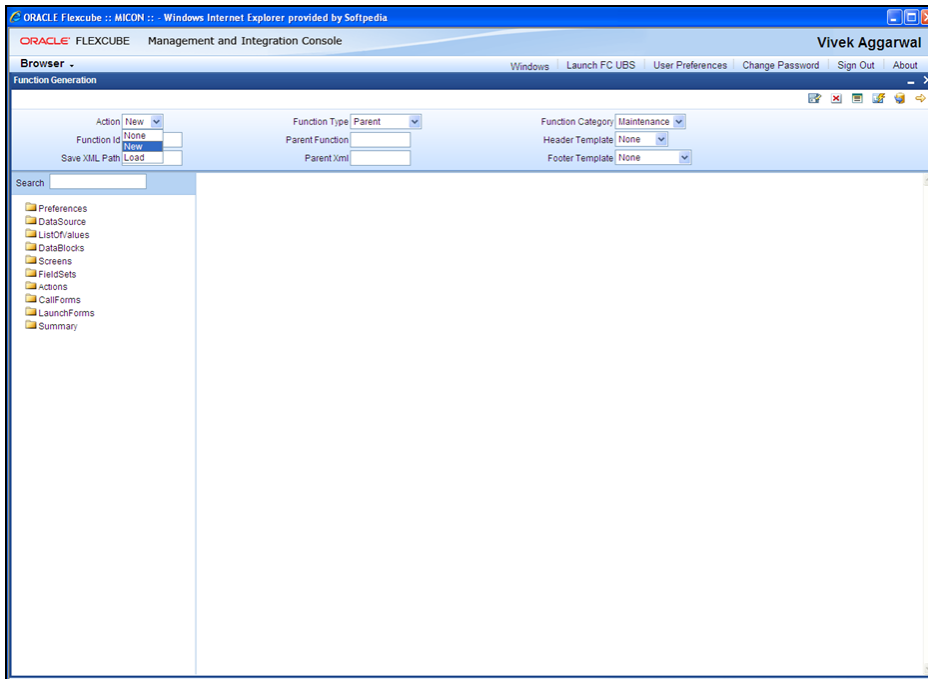
## 4. Header Information –Basic Information about the Screen

Log into the Open Development Tool and click on Browser Tab. Then click on the Function Generation tab that appears on the left hand side.



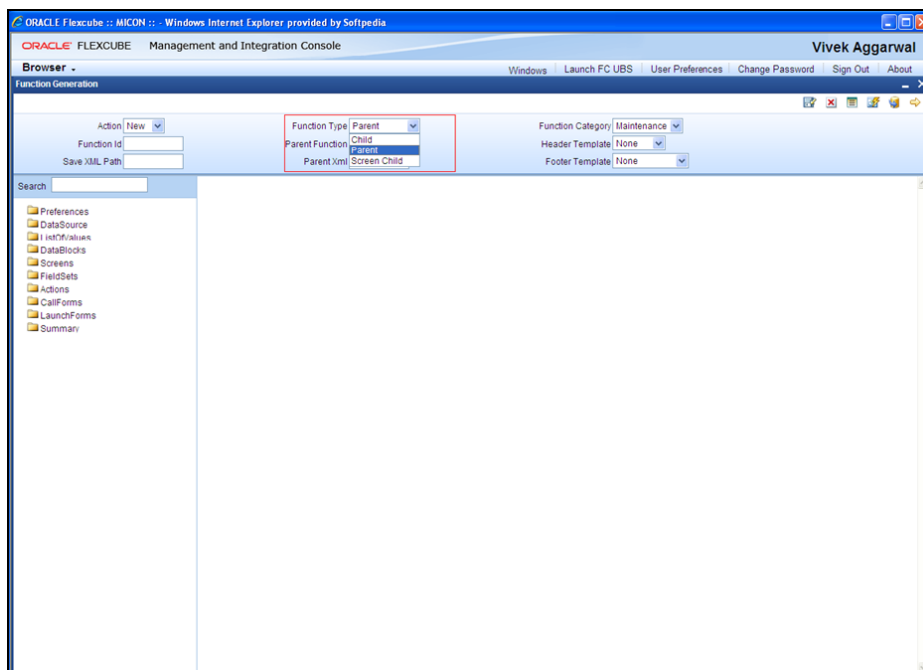
## 4.1 Action

A header appears where the “New” option is chosen from the Action options. The Function-id is to be entered in the space just below.



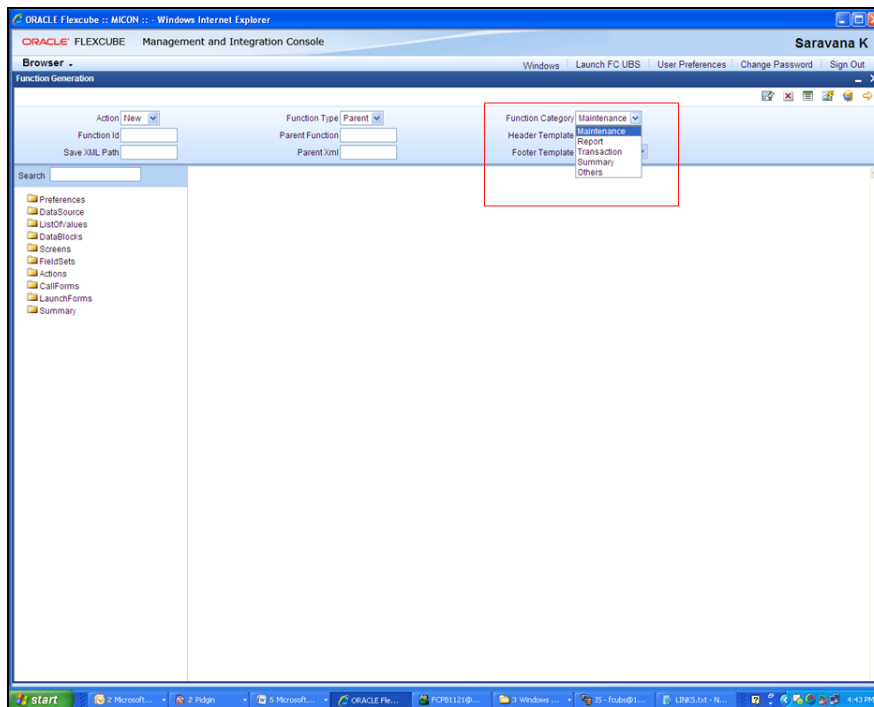
## 4.2 Function Type

Select Function Type -Parent



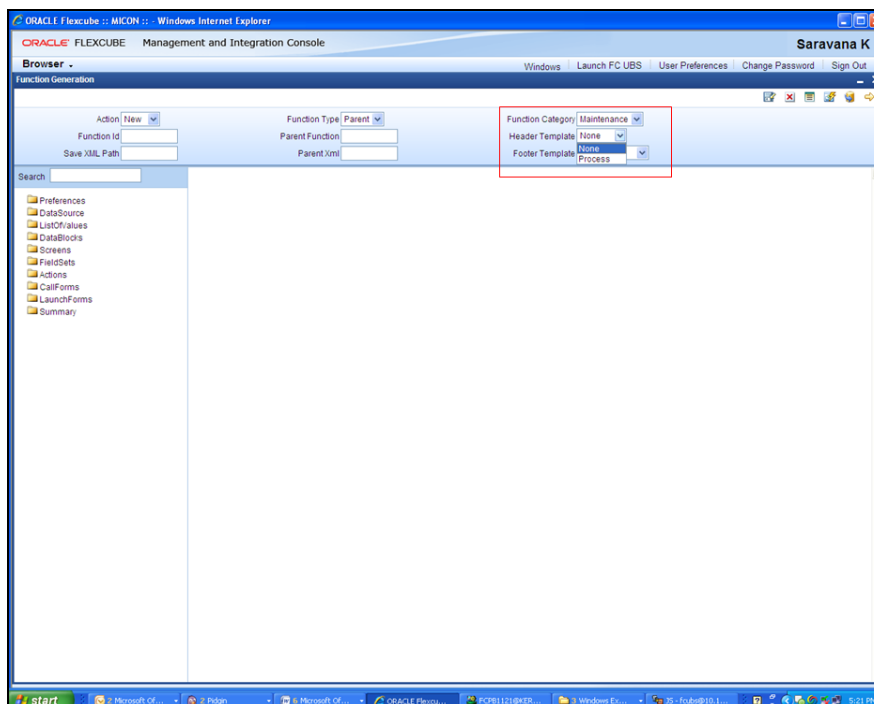
## 4.3 Function Category

Select Maintenance



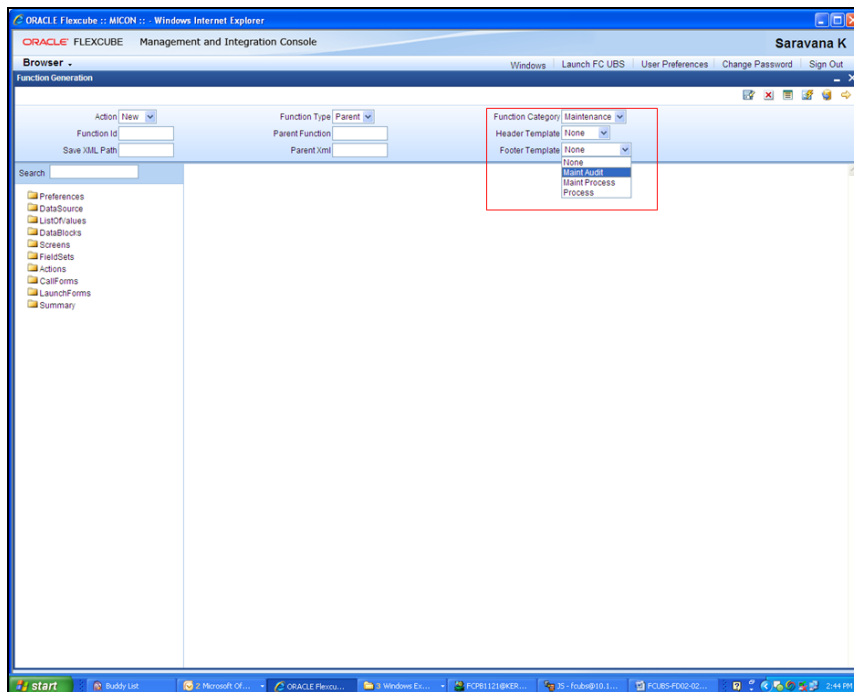
## 4.4 Header Template

Select None



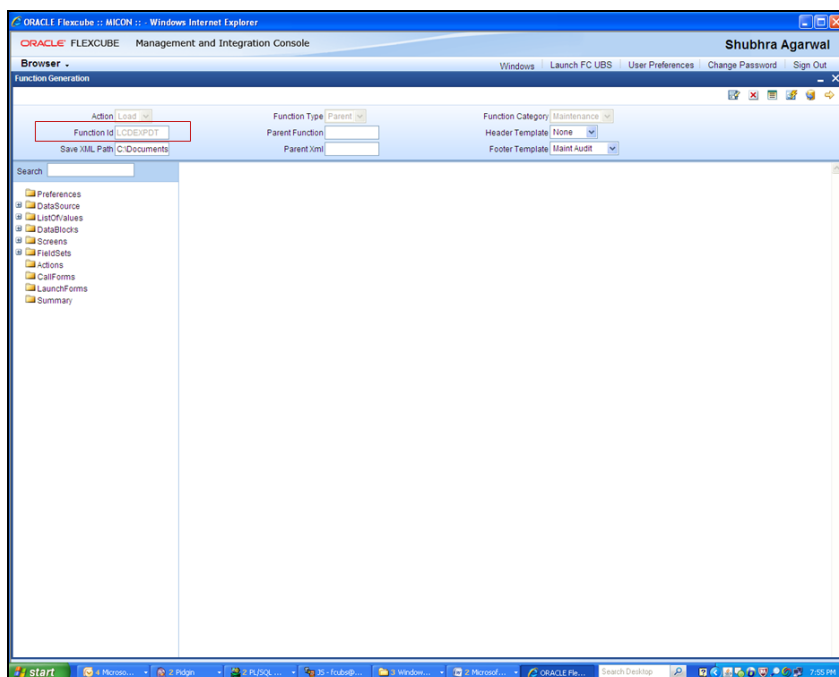
## 4.5 Footer Template

Select Maint Audit



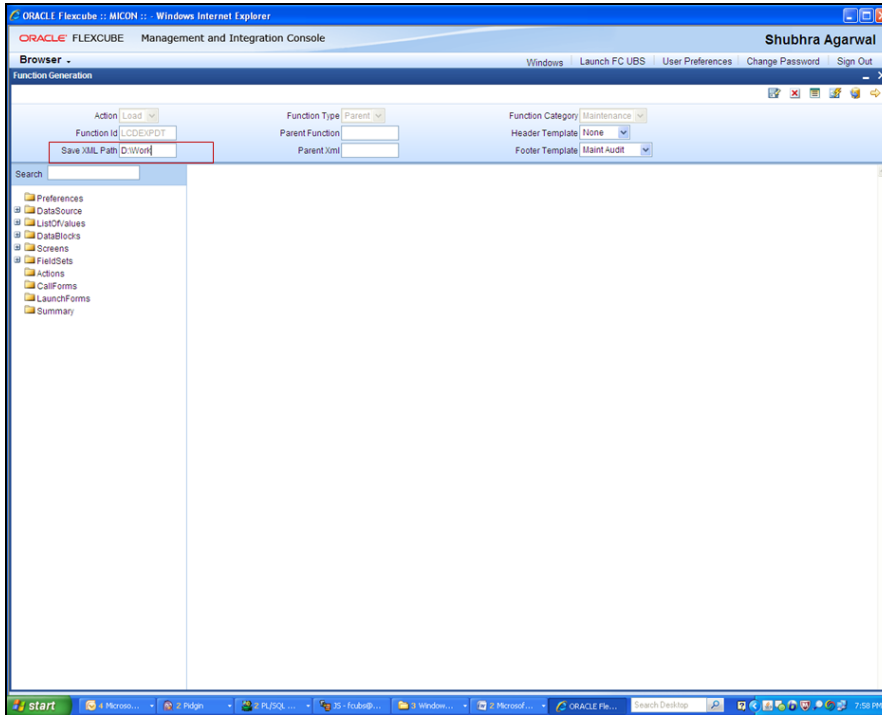
## 4.6 Function id

Function id name has to be maintained in the header information follow the naming convention from the references.



## 4.7 Save Xml Path

It includes the information about the place where the Open Development generated files will be stored.



## 5. Preferences

### 5.1 Module Name

Module name should be specified.

The screenshot shows the Oracle Flexcube Management and Integration Console. The 'Preferences' tab is active for Function ID 'LCDEXPDT'. The 'Module' field is highlighted with a red box and contains the value 'LC'. Other fields include 'Function Type' (Parent), 'Function Category' (Maintenance), 'Header Template' (None), and 'Footer Template' (None). A table at the bottom lists functions and their modules.

| FunctionID | Module * | Module Desc       |
|------------|----------|-------------------|
| LCDEXPDT   | LC       | Letters Of Credit |
| LCSEXPDT   | LC       | Letters Of Credit |

### 5.2 Include Functionalities

Check the functionalities as required in the screen.

The screenshot shows the Oracle Flexcube Management and Integration Console. The 'Preferences' tab is active for Function ID 'LCDEXPDT'. The 'Include Functionalities' section is highlighted with a red box, showing checkboxes for various options. The 'Module' field is highlighted with a red box and contains the value 'LC'. Other fields include 'Function Type' (Parent), 'Function Category' (Maintenance), 'Header Template' (None), and 'Footer Template' (None). A table at the bottom lists functions and their modules.

| FunctionID | Module * | Module Desc       |
|------------|----------|-------------------|
| LCDEXPDT   | LC       | Letters Of Credit |
| LCSEXPDT   | LC       | Letters Of Credit |

## 5.3 Module Name and Module Description

Add the details for the function id along with the module name and module description.

Oracle Flexcube Management and Integration Console - Vivek Aggarwal

Function Generation

Action: Load | Function Type: Parent | Function Category: Maintenance

Function Id: LCDEXPDT | Parent Function: | Header Template: None

Save XML Path: D:\RADTOOLS\ | Parent.xml: | Footer Template: None

Search: | Preferences

Head Office Function: ☐ | Auto End Of Day Aware: ☐ | Logging Required: ☐ | Auto Authorization: ☐ | Tank Modifications: ☐ | Field Log Required: ☐ | Multi Branch Access: ☐

Module: LC | Module Description: Letters Of Credit

Branch Program Id: | Process Code: | ClearCase Folder: | Tin Block Name: Choose Block | Tin Field Name: Choose Field

| FunctionID | Module * | Module Desc       |
|------------|----------|-------------------|
| LCDEXPDT   | LC       | Letters Of Credit |
| LCSEXPDT   | LC       | Letters Of Credit |

## 5.4 Transaction Block and Transaction Field

This is applicable for transaction screens for which multi-branch access is required.

Transaction block name choose the block name from the dropdown list.

Transaction field name choose the field name from the dropdown list.

Oracle Flexcube Management and Integration Console - Vivek Aggarwal

Function Generation

Action: New | Function Type: Parent | Function Category: Maintenance

Function Id: LCDEXPDT | Parent Function: | Header Template: None

Save XML Path: | Parent.xml: | Footer Template: None

Search: | Preferences

Head Office Function: ☐ | Auto End Of Day Aware: ☐ | Logging Required: ☐ | Auto Authorization: ☐ | Tank Modifications: ☐ | Field Log Required: ☐ | Multi Branch Access: ☐

Module: LC | Module Description: Letters Of Credit

Branch Program Id: | Process Code: | ClearCase Folder: | Tin Block Name: Choose Block | Tin Field Name: Choose Field

| FunctionID | Module * | Module Desc       |
|------------|----------|-------------------|
| LCDEXPDT   | LC       | Letters Of Credit |
| LCSEXPDT   | LC       | Letters Of Credit |

## 5.5 Summary Screen.

Add the corresponding summary screen.

The screenshot displays the Oracle Flexcube Management and Integration Console interface. The user is logged in as Shubhra Agarwal. The main window is titled "Function Generation" and contains several sections:

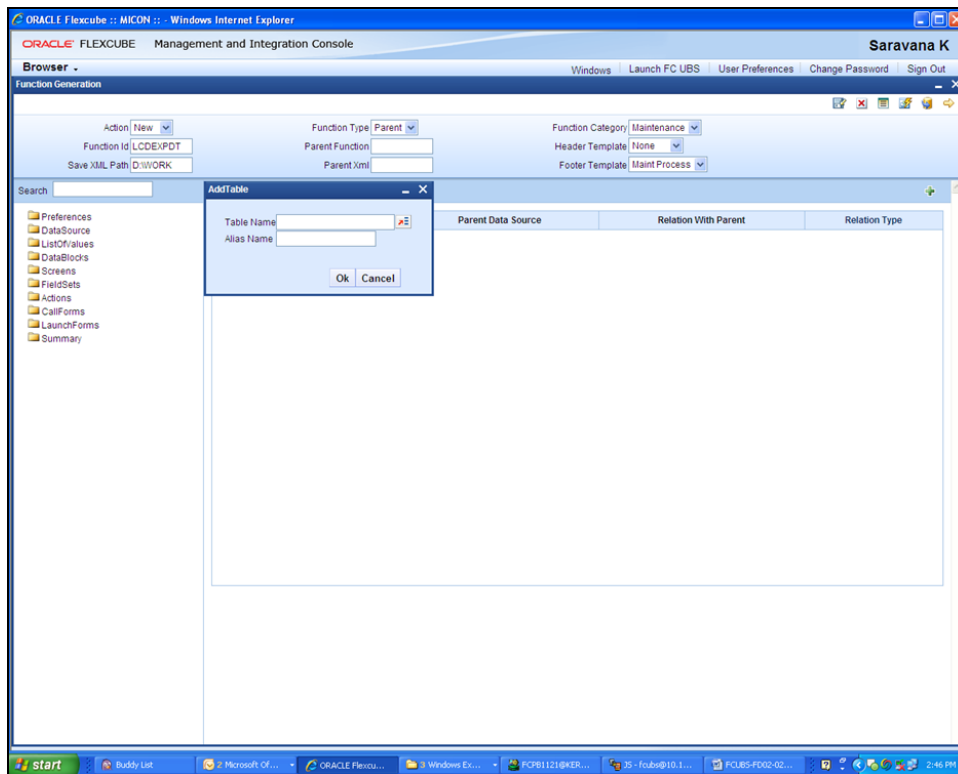
- Function Generation:** Includes fields for Action (Load), Function ID (LCDEXPOT), Parent Function, Parent XML, Function Category (Maintenance), Header Template (None), and Footer Template (Maint Audit).
- Search:** A search bar is present.
- Preferences:** A section with checkboxes for various settings: Head Office Function, Auto End Of Day Aware, Logging Required, Auto Authorization (checked), Tank Modifications, and Field Log Required. It also includes fields for Module (LC), Module Description (Letters Of Credit), Branch Program Id (100), Process Code, and Clear/Case Folder.
- Table:** A table with columns FunctionID, Module, and Module Desc. It contains two rows, both with FunctionID LCDEXPOT and Module LC, with Module Desc Letters Of Credit.

The table data is as follows:

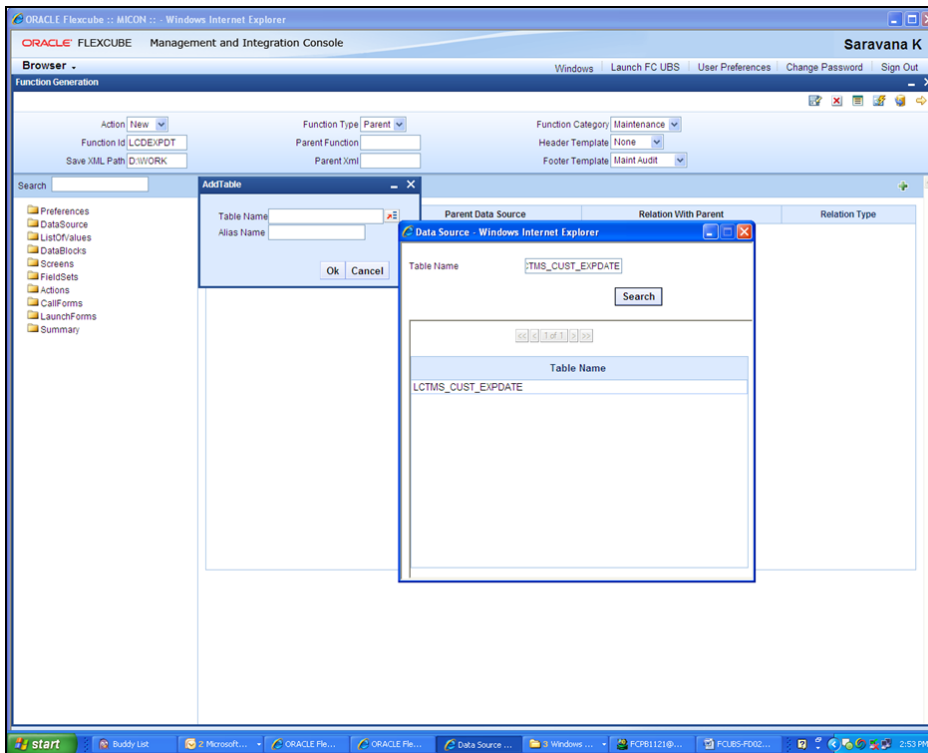
| FunctionID | Module | Module Desc       |
|------------|--------|-------------------|
| LCDEXPOT   | LC     | Letters Of Credit |
| LCSEXPOT   | LC     | Letters Of Credit |

## 6. Data Sources

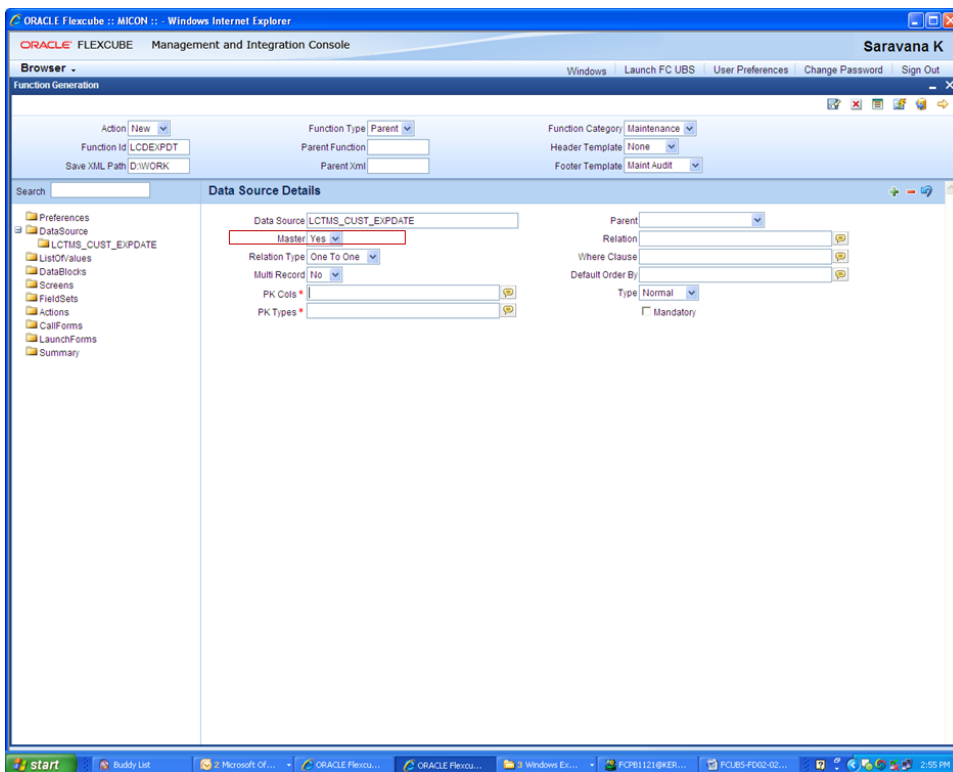
- On right clicking on the DataSource Tab on the left hand side of the Open Development Tool screen, an “Add” button is visible. On selecting the “Add” Button, the below screen will be visible.
- The Alias name is to be given here only if it is necessary to refer to the same datasource twice (For Example- as both One to One and as One to Many).



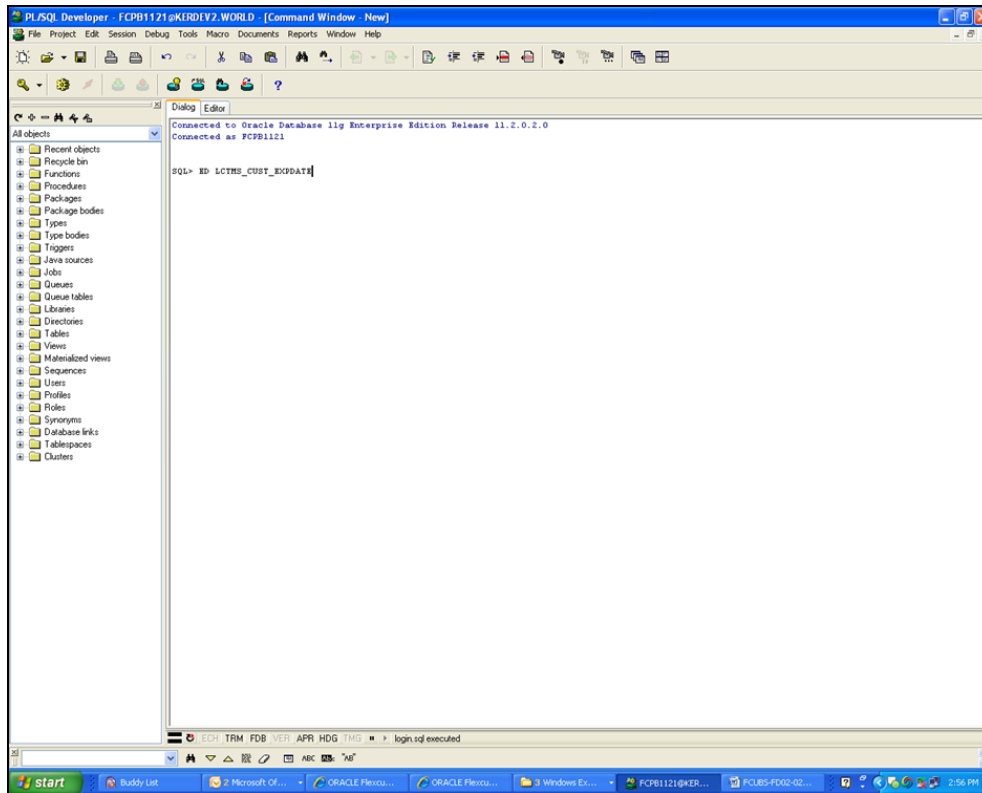
- Select data source LCTMS\_CUST\_EXPDATE



- For the Master Data Source, the Master Tab should be made “Yes”. The Parent and Relation details will be left empty for the master datasource.



- The PK Cols and the PK Types Details are to be obtained using PL/sql developer. The command window is opened and the command “ED Table\_Name” is entered.



On pressing enter, the details of the tables are seen. The details listed in the Keys Tab under the column labeled as “Columns” are typed in the Open Development Tool where the PK Cols details are needed. The entries are given separated by ~ symbol.

For our example, the PK Cols Details are written as:

CUSTOMER\_NO



- For master Datasources the relation type should be maintained as “One to One” ,Multirecord should be “NO” and the Relation clause need not to be maintained.

The screenshot displays the Oracle Flexcube Management and Integration Console. The main window is titled "Data Source Details" and shows the configuration for a data source named "LCTMS\_CUST\_EXPDATE". The configuration fields are as follows:

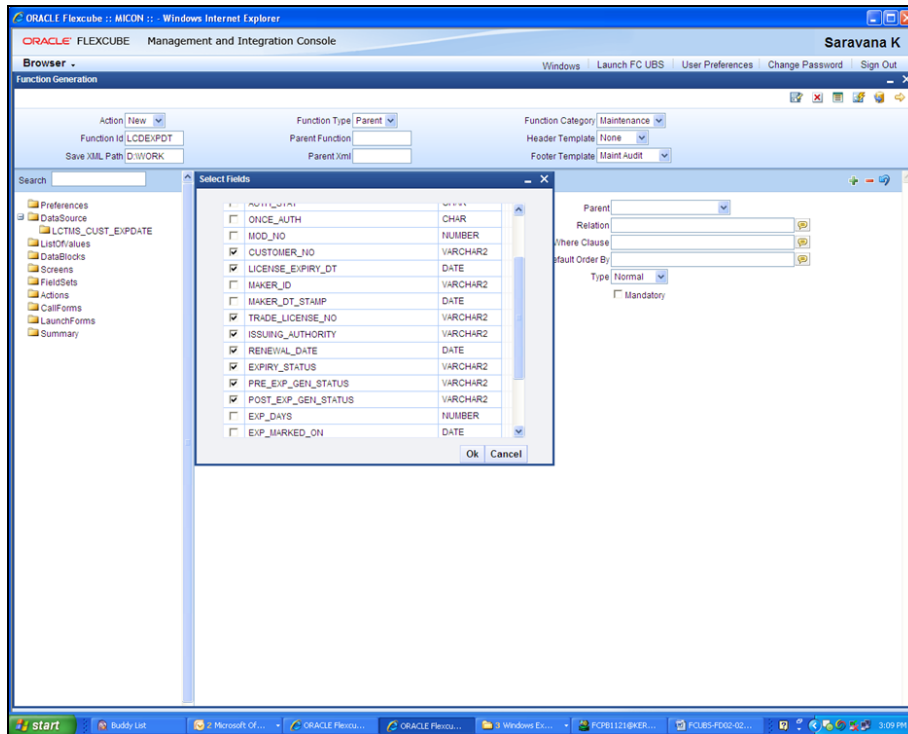
- Action:** New
- Function Id:** LCDEXPDT
- Save XML Path:** D:\WORK
- Function Type:** Parent
- Parent Function:**
- Parent XML:**
- Function Category:** Maintenance
- Header Template:** None
- Footer Template:** Maint-Audit
- Search:**
- Data Source:** LCTMS\_CUST\_EXPDATE
- Master:** Yes
- Relation Type:** One To One
- Mult Record:** No
- PK Cols:** CUSTOMER\_NO
- PK Types:** VARCHAR2
- Parent:**
- Relation:**
- Where Clause:**
- Default Order By:**
- Type:** Normal
- Mandatory:**

Other Master data sources are to be added in the same way.



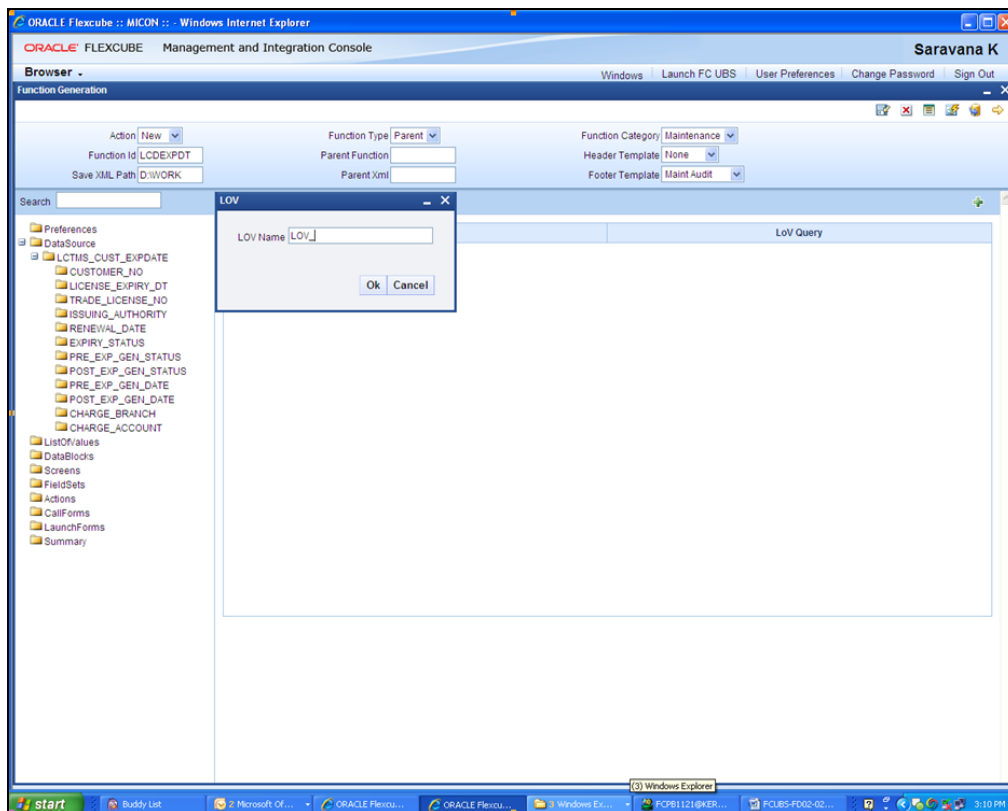
In case of Detail Data sources, the Relation Type is to be changed to “One to Many” and the Multirecord option is made “Yes ” and the Relation clause should be given.

- By right clicking on the Table name (Datasource) in Open Development Tool, and clicking “Add”, required columns are added by clicking the check boxes.

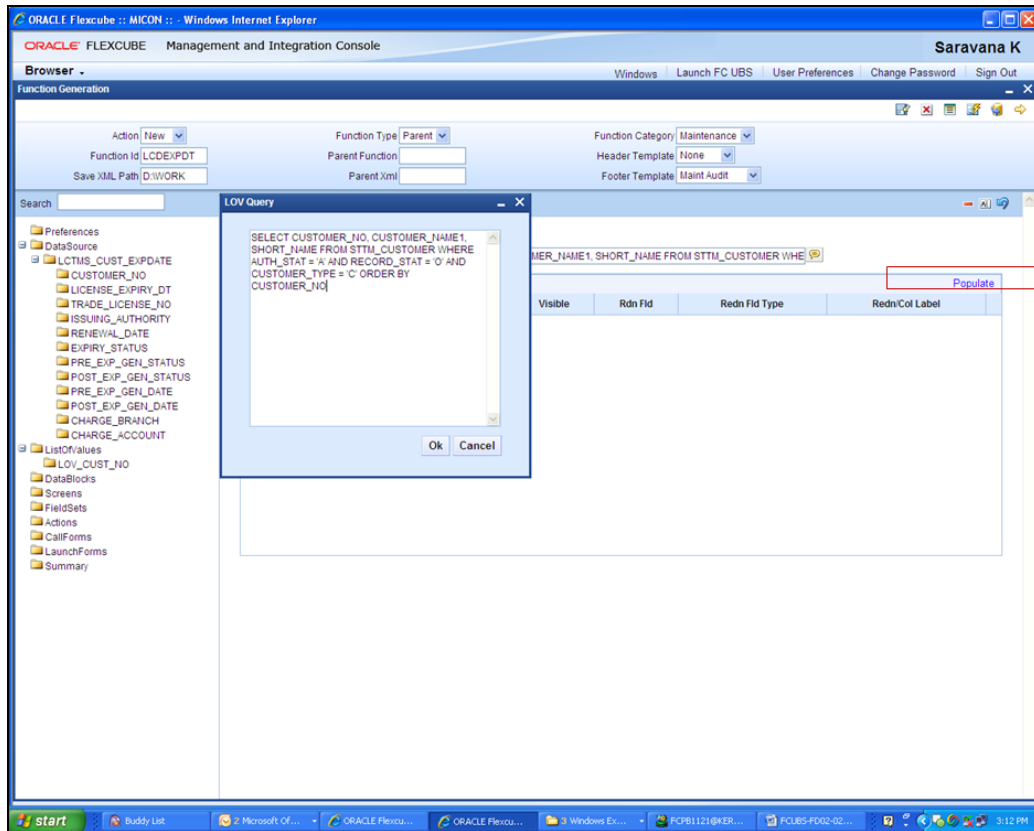


## 7. List of Values

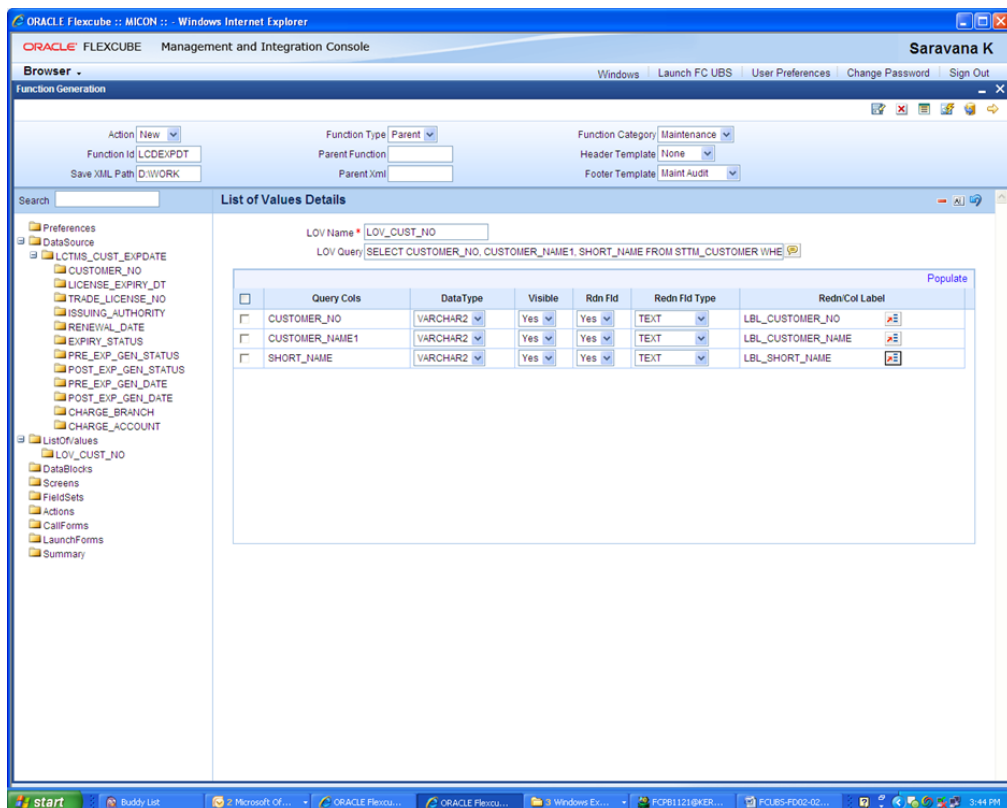
- New LOVs are defined in Open Development Tool by right clicking and pressing “Add”. The below screen appears and the LOV name should be given here.



- The LOV Query is entered into the sISequent screen. Then click on “Populate”. Entries become visible and the details such as datatype and Labels are checked.



- LOV LOV\_CUST\_NO is added



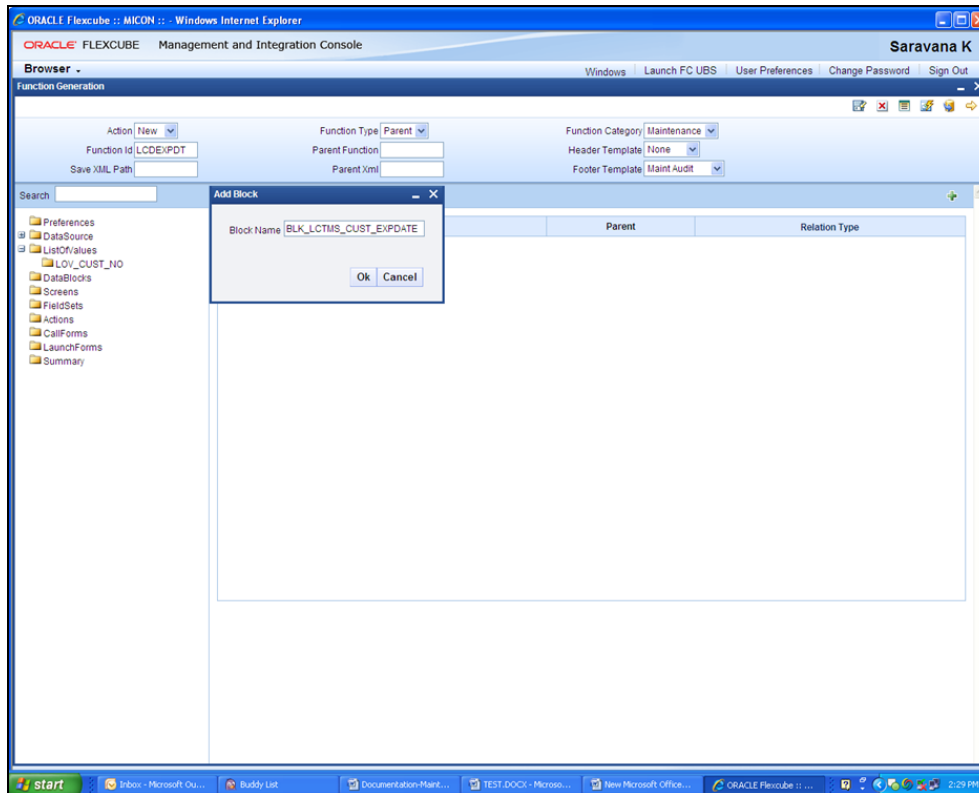


## 8. Data Blocks

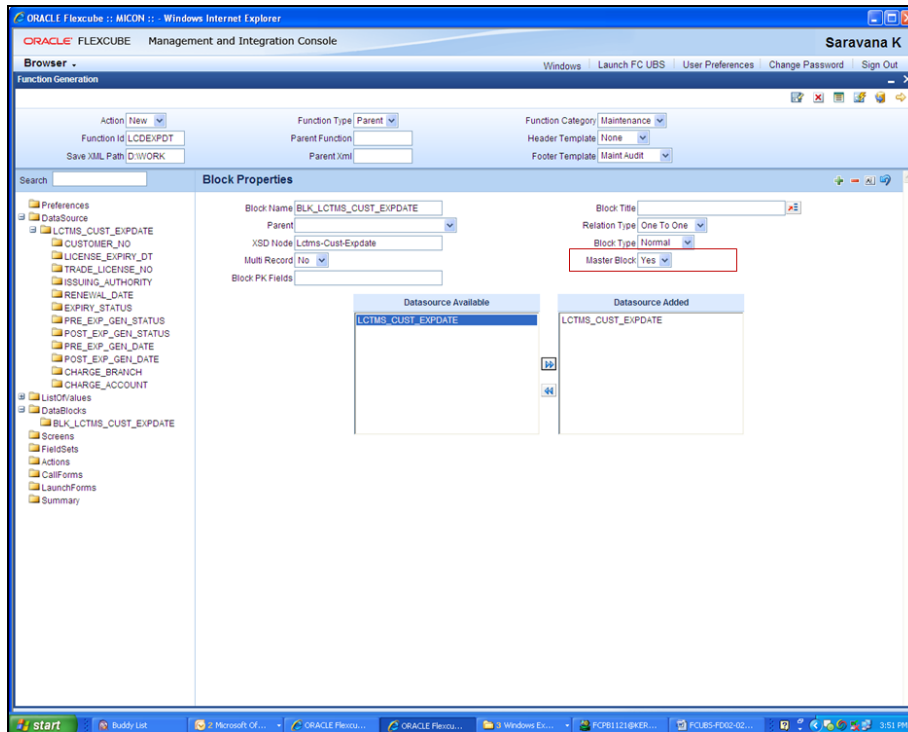
Datablocks are added by right clicking on the tab present on the left hand side of the screen.

### 8.1 Attaching Block Fields

- Datablock BLK\_LCTMS\_CUST\_EXPDATE is added



- The MasterBlock option is to be made “Yes” and all the One to One Datasources are added here by selecting each and taking them to the right side using the arrows present on the screen

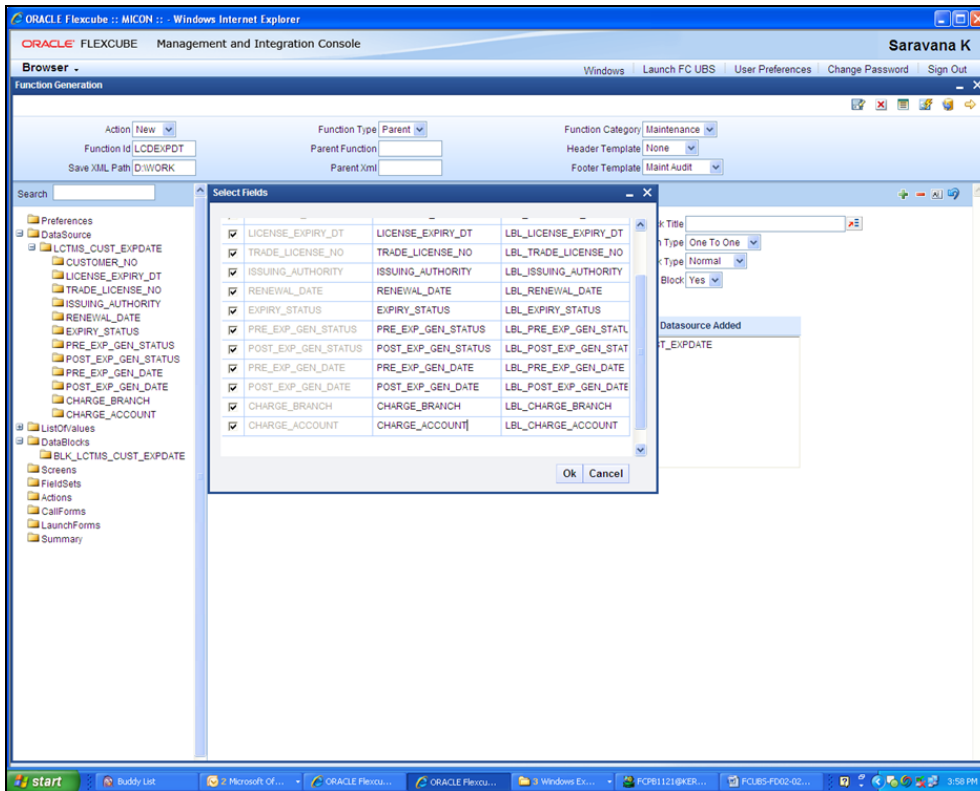


In case block for Detail Data sources, the Relation Type is to be changed to “One to Many”

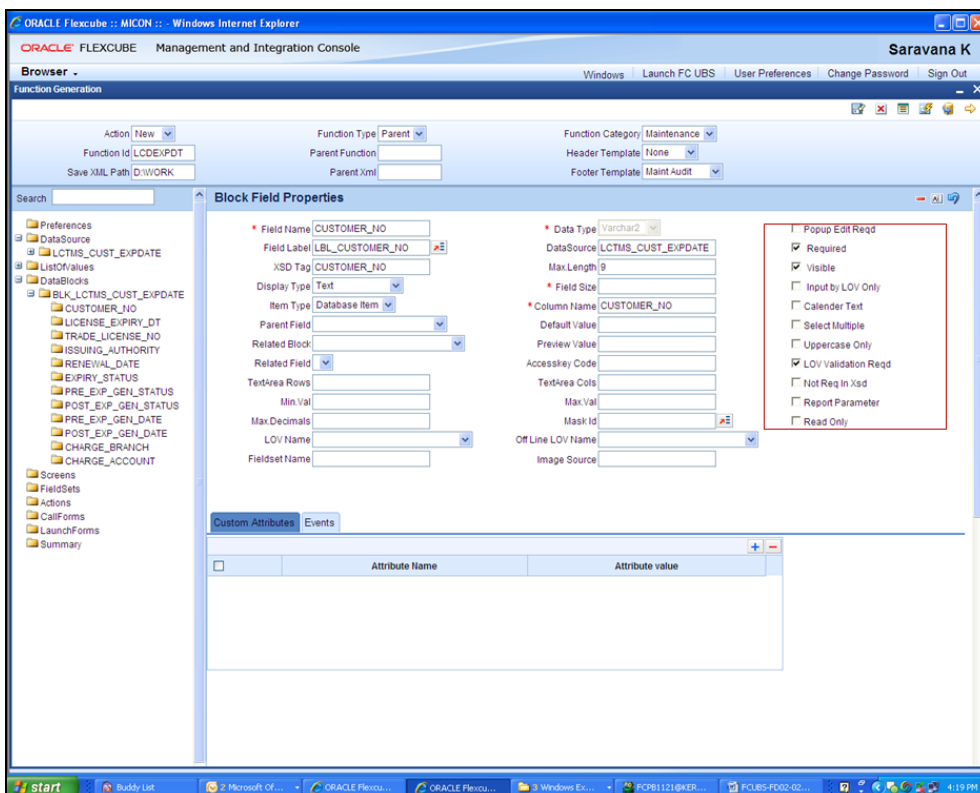


Multi record option is made “Yes”, Parent field should be maintained and Master block should be “NO”.

- The columns that were added in the datasources in our earlier step will now have to be added in the corresponding datablock as well by right-clicking on the already added datablock and then pressing “Add”.
- The column name is typed into the field name and we click on the corresponding space for Label Code to fill all the entries for the row. We then click the check boxes then click “OK” in the screen below.



- The attributes for each column such as “Visible”, “Required” and “Pop up edit required” as seen to the right part of the screen below in the Open Development Tool are checked if necessary.







ORACLE FLEXCUBE :: MICON :: Windows Internet Explorer provided by Softpedia

ORACLE FLEXCUBE Management and Integration Console

Vivek Aggarwal

Windows Launch FCUBS User Preferences Change Password Sign Out About

Function Generation

Action: New Function Type: Parent Function Category: Maintenance

Function Id: LCDEXPDT Parent Function: Save XML Path: Parent.Xml: Header Template: None Footer Template: None

Search: Block Field Properties

Field Name: PRE\_EXP\_GEN\_STATUS Field Label: LBL\_PRE\_EXP\_GEN\_STA XSD Tag: PRE\_EXP\_GEN\_STATUS Display Type: CheckBox Item Type: Database Item Parent Field: Related Block: Related Field: Text Area Rows: Min Val: Max Decimals: LOV Name: Fieldset Name:

Data Type: Varchar2 DataSource: LCTMS\_CUST\_EXPDATE Max Length: 4 Field Size: Column Name: PRE\_EXP\_GEN\_STATUS Default Value: Preview Value: Accesskey Code: Text Area Cols: Max Val: Mask Id: Off Line LOV Name: Image Source:

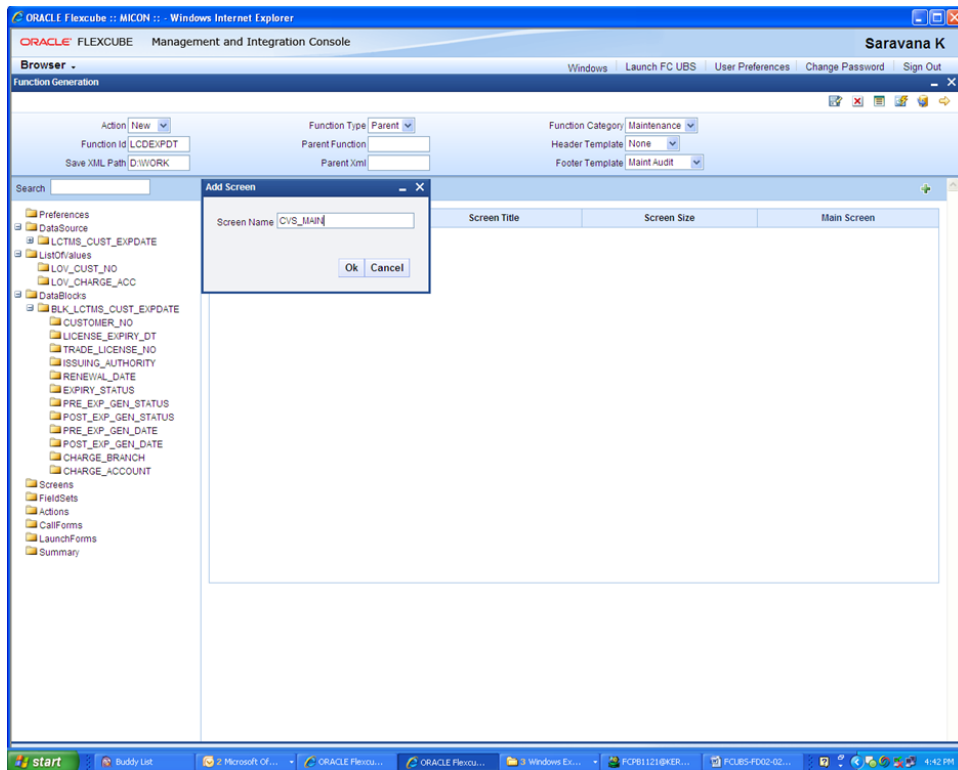
Custom Attributes

| Attribute Name | Attribute value | Active |
|----------------|-----------------|--------|
| ON             | Y               | Yes    |
| OFF            | N               | Yes    |

Similarly POST\_EXP\_GEN\_STATUS is declared as checkbox and Custom Attributes set in the same way

## 9. Screen Layout Design

- Add a Screen as shown below



- The main screen should be named as CVS\_MAIN and the changes are made as below.

- Screen Title should be added.
- Main screen should be checked.

The screenshot shows the Oracle Flexcube Management and Integration Console interface. The user is logged in as Vivek Aggarwal. The interface is divided into several sections:

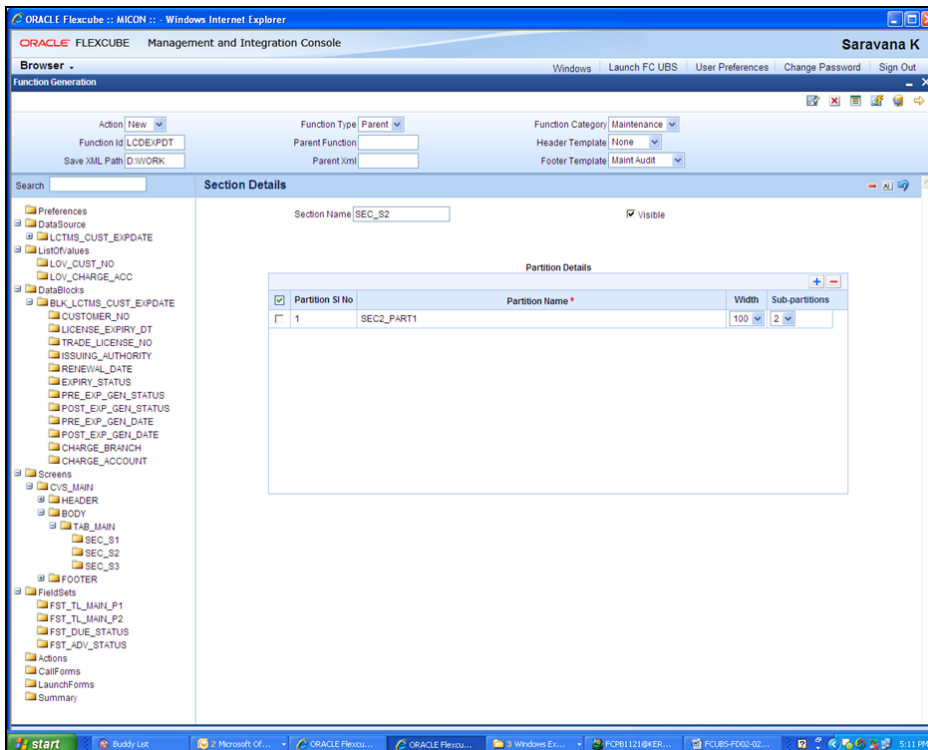
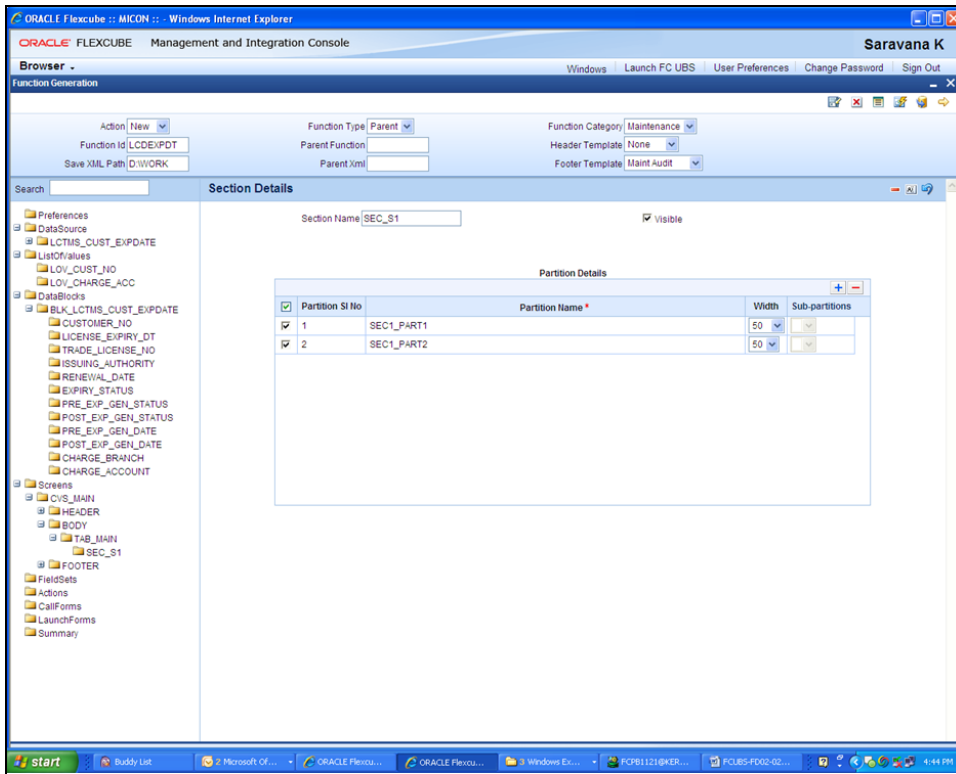
- Function Generation:** Includes fields for Action (Load), Function Id (LCDEXPDT), Save XML Path (D:\RADTOOL), Function Type (Parent), Parent Function, Parent Xml, Function Category (Maintenance), Header Template (None), and Footer Template (None).
- Search:** A search bar is present.
- Screen Details:**
  - Screen Name: CVS\_MAIN
  - Screen Title: (empty)
  - Screen Size: Small
  - Exit Button Type: Default Cancel
  - ☒ Main Screen
  - ☒ Visible
- Table:** A table with columns: Arg Name, Source Block, Source Field, Arg Value, Target Block, Target Field, and Active. The table is currently empty.

- In order to design the screen, we require the addition of sections.

The screenshot shows the Oracle Flexcube Management and Integration Console interface. The user is logged in as Saravana K. The interface is divided into several sections:

- Function Generation:** Includes fields for Action (New), Function Id (LCDEXPDT), Save XML Path (D:\WORK), Function Type (Parent), Parent Function, Parent Xml, Function Category (Maintenance), Header Template (None), and Footer Template (Maint Audit).
- Search:** A search bar is present.
- Tab Details:**
  - Screen Name: CVS\_MAIN
  - Tab Name: TAB\_MAIN
  - Tab Label: (empty)
  - Tab Type: (empty)
  - Tab Access Key: (empty)
  - ☒ Visible
  - Dependent Fields: (empty)
- Tree View:** A tree view on the left shows the hierarchy of the application. The 'Screens' folder is expanded, showing 'CVS\_MAIN' and 'TAB\_MAIN'. The 'TAB\_MAIN' folder is selected, and a context menu is open with options: Add, Delete, and Rename.

- Use the “+” button to add and then name the partition. Width and sub partitions can be selected accordingly.



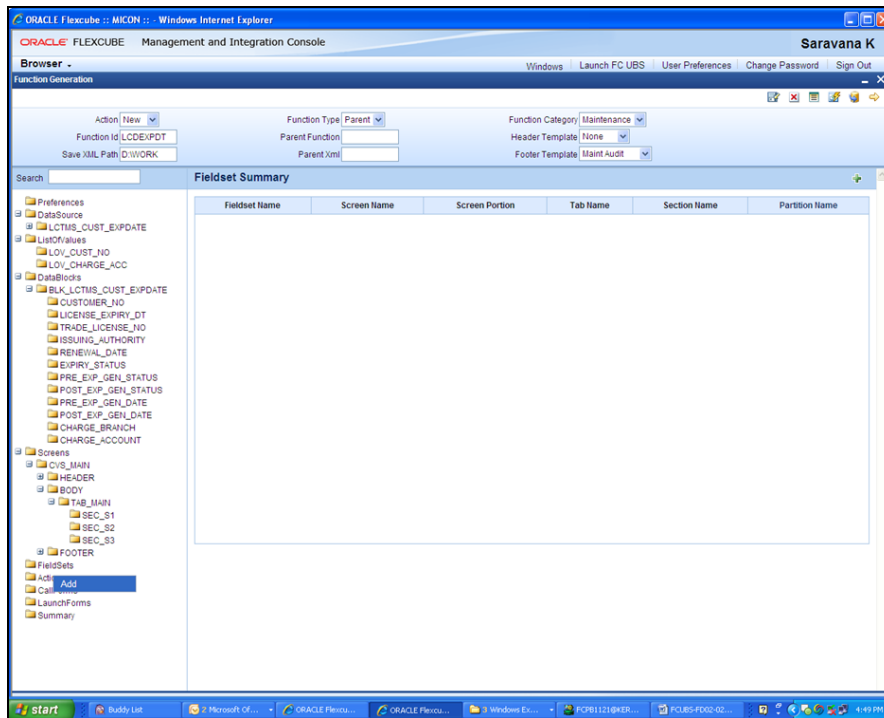
Similarly, we do the same for the third section and partition creation

## 10. Field Sets

The various fieldsets that are required are shown in the screen below. For this example, we require four fieldsets named FST\_TL\_MAIN\_P1, FST\_TL\_MAIN\_P2,

FST\_DUE\_STATUS and FST\_ADV\_STATUS.

- Add a new field set by right clicking on the field set folder and then click “ADD”.



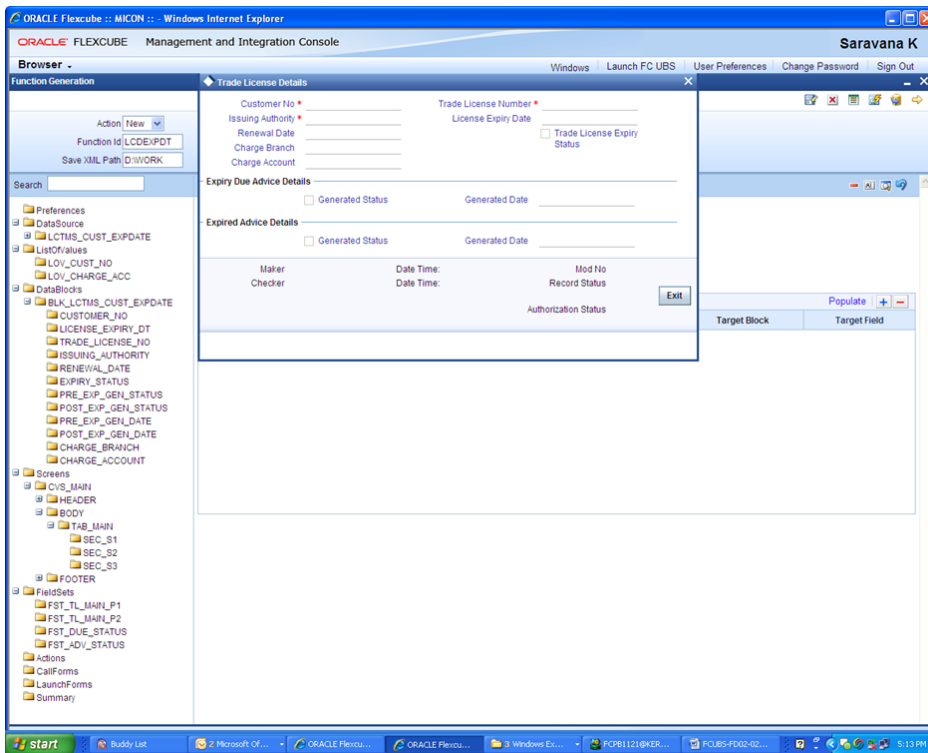
Maintain the following information of the portion of the screen where the set of fields selected should be displayed on the screen.

- Screen name
- Screen Portion
- Tab name
- Section name
- Partition name

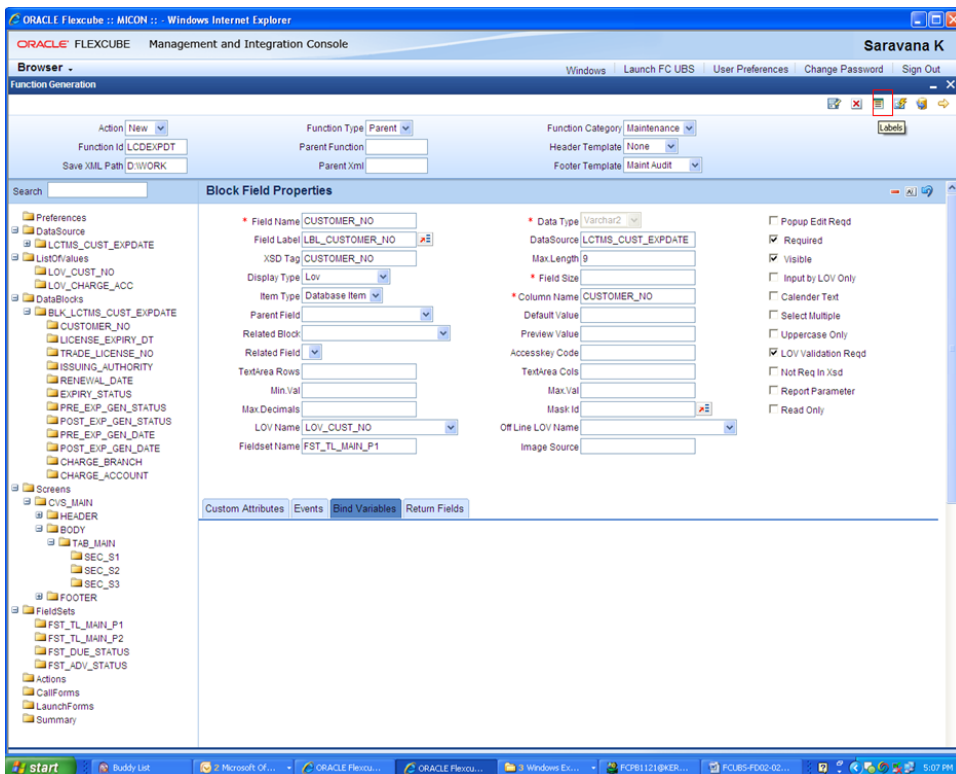




- Preview the Screen to determine any changes to be made.



- If the fields are not labeled in the preview, then we need to add the Label to the database. Click on the symbol indicated to the top right in the screen below.



- The below screen will appear and after pressing “+”, the new label details should be given

Oracle Flexcube Management and Integration Console - Labels screen. The interface includes a table for labels and a sidebar with configuration options.

| Label Code | Label Description | Label Type | Operation |
|------------|-------------------|------------|-----------|
| 0 of 0     |                   |            |           |

Buttons: Fetch All Labels, Fetch Missing Labels, Deploy, Exit

Custom Attributes:

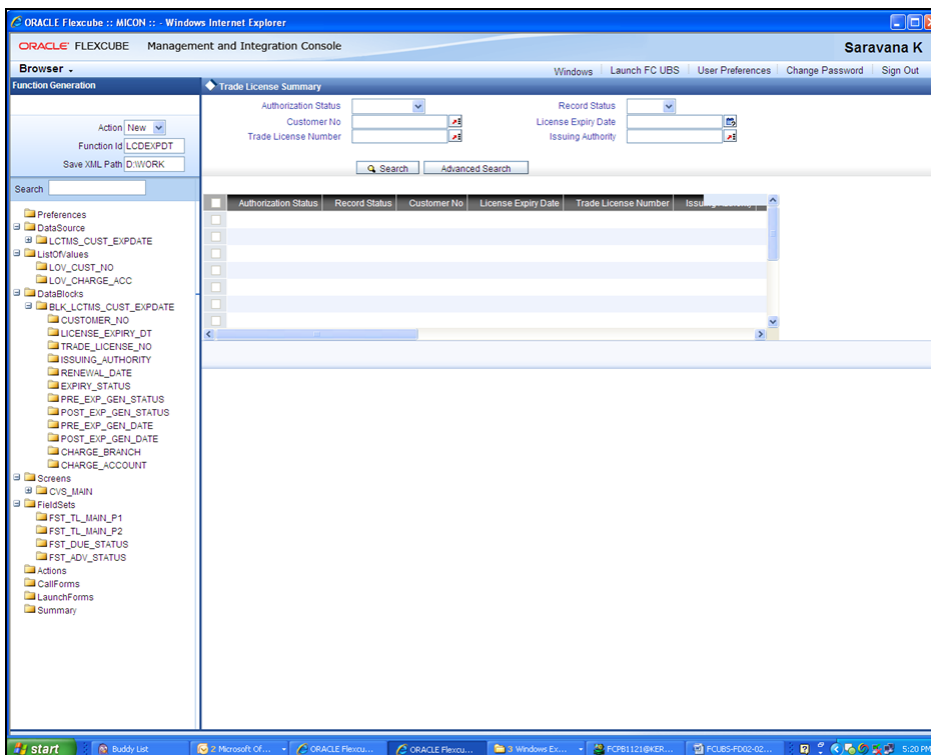
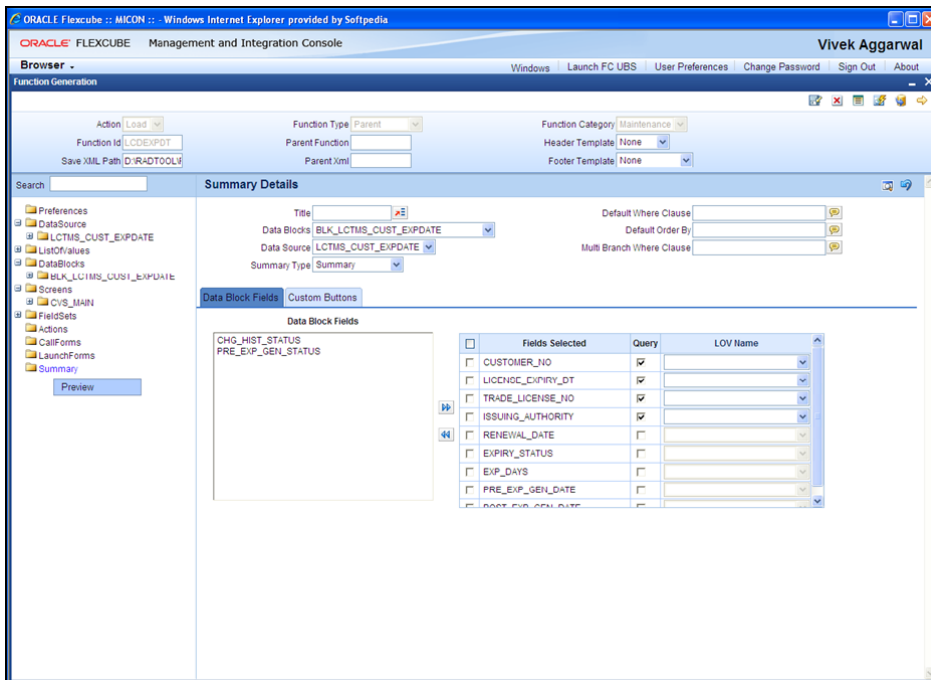
| Attribute Name | Attribute value | Active |
|----------------|-----------------|--------|
| ON             | Y               | Yes    |
| OFF            | N               | Yes    |

After the new label has been added, we can use the label lookup and the search will yield the label we have just added for our use



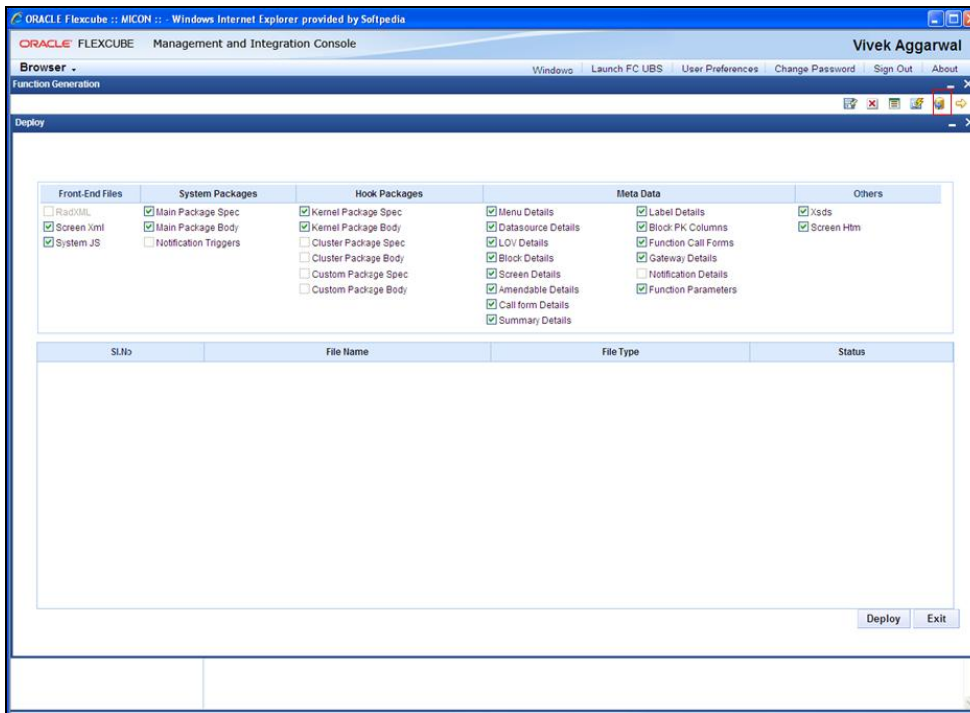


- Right click on Summary option and select “Preview” to get the Summary Screen.





- Deploy the generated files



- Deploy the file LCDEXPDT.xml in the UIXML path specified
- Deploy the files LCDEXPDT \_SYS.js and LCDEXPDT.js in the JS path specified
- Compile the created objects in PI/sql

