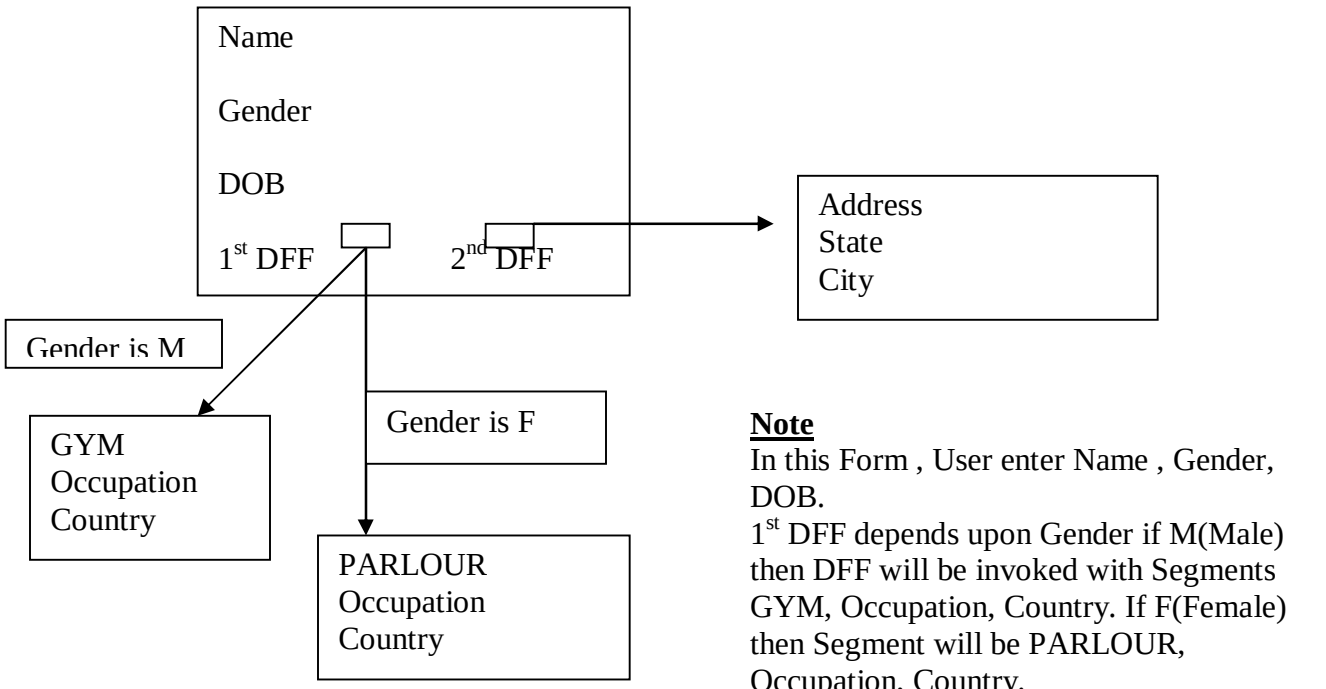
Flexfields are required whenever an additional information is required in Oracle Form. For complete knowledge in Descriptive Flexfield please visit
http://oracle.anilpassi.com/descriptive-flexfield-basics-in-oracle-apps.html

This Training Article will focus on Creating DFF in a Custom Form.



Note
In this Form , User enter Name , Gender, DOB.
1st DFF depends upon Gender if M(Male) then DFF will be invoked with Segments GYM, Occupation, Country. If F(Female) then Segment will be PARLOUR, Occupation, Country.
2nd DFF will Depend on Country of 1st DFF.

To accomplish this we need to follow the following Steps

1. Create a table with Column like Attribute_category (for DFF representation) and Attribute1, Attribute2 (For Value entered in DFF), its not mandatory to use these Names but is a good practice and also recommended by Oracle.
   Register this Custom table with Apps using AD_DD package .
2. Register DFF with Apps
3. Create a Form which will Contain DFF.
4. Register this Form with Apps

STEP 1 :

This Step is further divided into following Steps

a. Create Custom Table in Custom Schema
b. Grant permission to APPS user
c. Add Comments to Columns (Good Practice).
d. Create Synonym in APPS

e. Register table with Apps using AD_DD Pakage
f. Register Column with Apps Using AD_DD Package.

a. Create a Custom Table in Custom Schema.

```
CREATE TABLE XX_XX_DFF
(
NAME                    VARCHAR2(100),
GENDER                  VARCHAR2(1),
DOB                     DATE,
ATTRIBUTE_CATEGORY1     VARCHAR2(100),
ATTRIBUTE_CATEGORY2     VARCHAR2(100),
ATTRIBUTE1              VARCHAR2(100),
ATTRIBUTE2              VARCHAR2(100),
ATTRIBUTE3              VARCHAR2(100),
ATTRIBUTE4              VARCHAR2(100),
ATTRIBUTE5              VARCHAR2(100),
ATTRIBUTE6              VARCHAR2(100),
ATTRIBUTE7              VARCHAR2(100)
)
```

b. Grant permission to APPS user

```
GRANT ALL ON XX_XX_DFF TO APPS
```

c. Add Comments to Columns (Good Practice).

```
COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE1 IS 'GYM';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE2 IS 'BEAUTY PARLOUR';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE3 IS 'OCCUPATION';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE4 IS 'COUNTRY';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE5 IS 'ADDRESS';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE6 IS 'CITY';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE7 IS 'STATE';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE_CATEGORY1 IS 'Depends on Gender';

COMMENT ON COLUMN XX_XX_DFF.ATTRIBUTE_CATEGORY2 IS 'Depends on Country';
```

d. Create Synonym in APPS

```
CREATE SYNONYM XX_XX_DFF FOR XXBL.XX_XX_DFF
```

e. Register table with Apps using AD_DD Pakage

```
BEGIN
AD_DD.REGISTER_TABLE('FND','XX_XX_DFF','T');
END;
```

f. Register Column with Apps Using AD_DD Package.

```
BEGIN
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','NAME',1,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','GENDER',2,'VARCHAR2',1,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','DOB',3,'DATE',9,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE_CATEGORY1',4,'VARCHAR2',
100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE_CATEGORY2',5,'VARCHAR2',
100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE1',6,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE2',7,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE3',8,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE4',9,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE5',10,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE6',11,'VARCHAR2',100,'N','N');
AD_DD.REGISTER_COLUMN('FND','XX_XX_DFF','ATTRIBUTE7',12,'VARCHAR2',100,'N','N');
END;
```

STEP 2: **Register DFF with Apps**

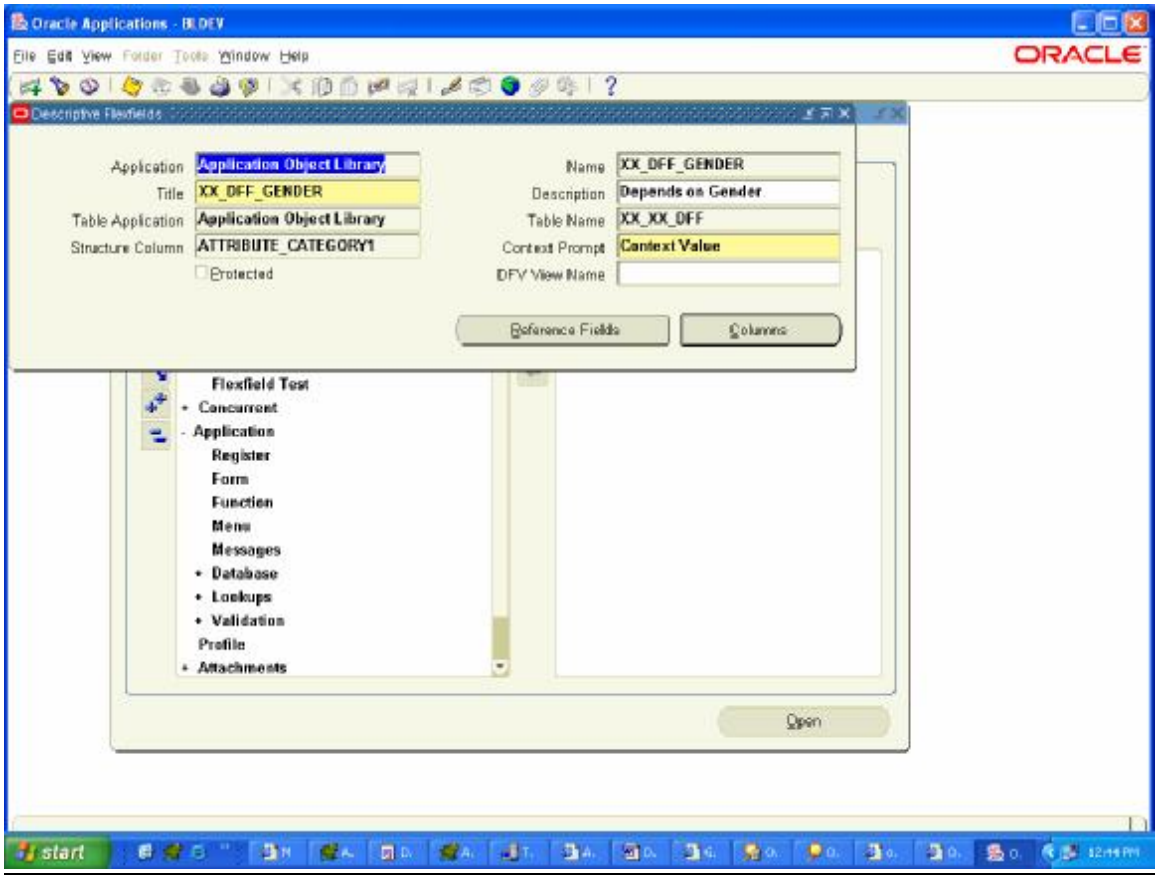
Navigation Path : Application Developer à Flexfield à Descriptive à Register

For 1st DFF XX_DFF_GENDER

Application	: Application Object Library
Name	: XX_DFF_GENDER
Title	: XX_DFF_GENDER
Description	: Depends on Gender
Table Application	: Application Object Library
Table Name	: XX_XX_DFF
Structure Column	: ATTRIBUTE_CATEGORY1
Context Prompt	: Context Value

(Press Save)

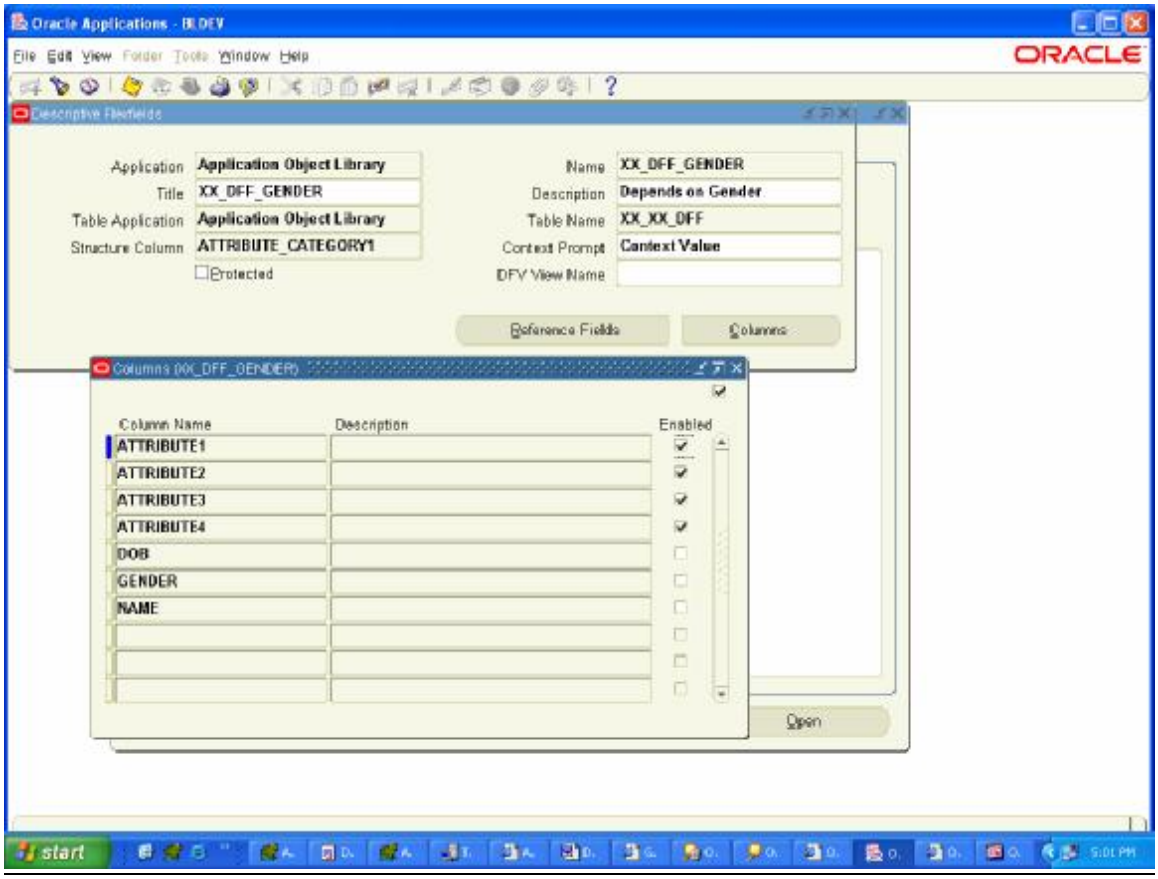
Note: Title should be Unique as it is required to Query the Flexfield for creation or updation of Segments (Mentioned Below with Segment)



Now Click on Button Column and Check only

ATTRIBUTE1, ATTRIBUTE2, ATTRIBUTE3, ATTRIBUTE4

i.e GYM, PARLOUR, Occupation, Country.



Now Create Segments

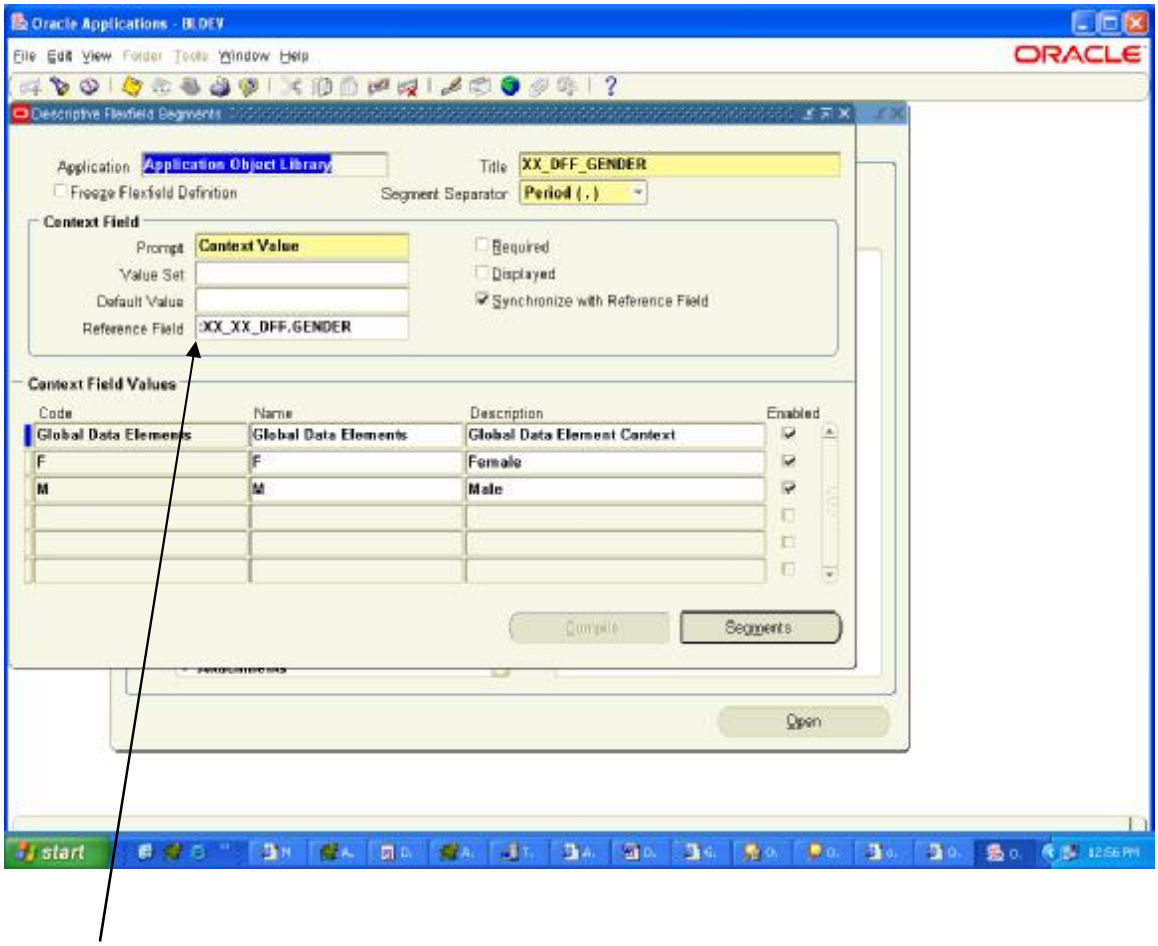
Navigation Path : Application Developer à Flexfield à Descriptive à Segment

Query the Flexfield by Pressing F11 and Copy the Title XX_DFF_GENDER in Title field. (As discussed above, Title is required to be Unique)

1. Unfreeze Flexfield Definition by Unchecking the checkbox Freeze Flexfield Definition.
2. Check Synchronize with Reference Field Checkbox (When Reference Field is not null)
3. Enter :blockname.item_name of your Form (Can be filled later once form is created) in Reference Field.
4. Context Field Values

Code	Name	Description	Enabled
F	F	Female	check
M	M	Male	check

(Global Data Elements is a default Context Field value)



Reference Field Contain :XX_XX_DFF.GENDER (:BLOCK_NAME.ITEM_NAME). It will link the Gender field of my Form and depending upon the value entered it will show the DFF.

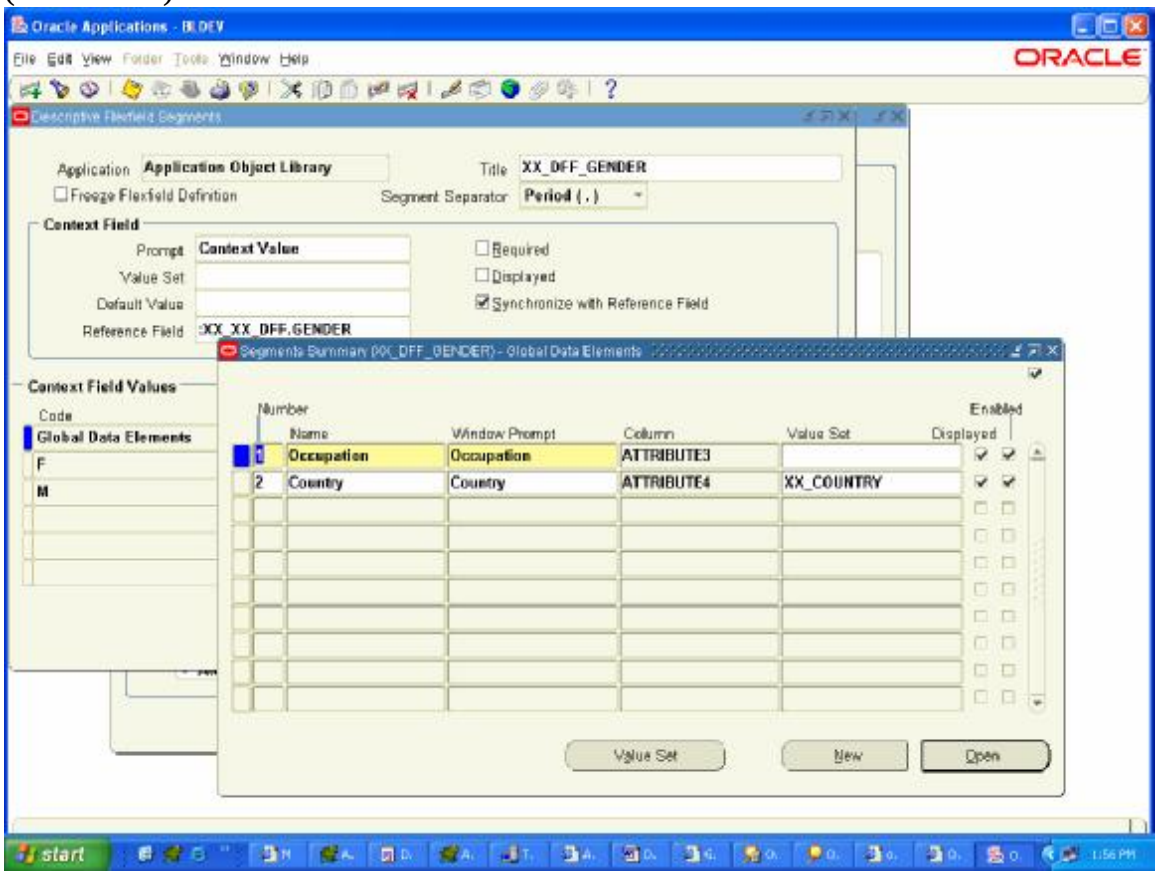
Context Field Values.
My 1st DFF will show 3 fields
GYM, Occupation, Country when Gender is M
PARLOUR, Occupation, Country when Gender is F.

Any Segments created under Global Data Elements will always be invoked with the DFF. Since Occupation and Country are common therefore I'm putting them in Global Data Elements.
We can also achieve this by creating Segment Occupation and Country for both Context Field Value M and F, leaving Global Data Elements as Blank.

Click in Global Data Elements and then click Segments Tab.
I've Place Occupation and Country Segments under it which means whether the Gender is M or F. 1st DFF will always show these two fields.

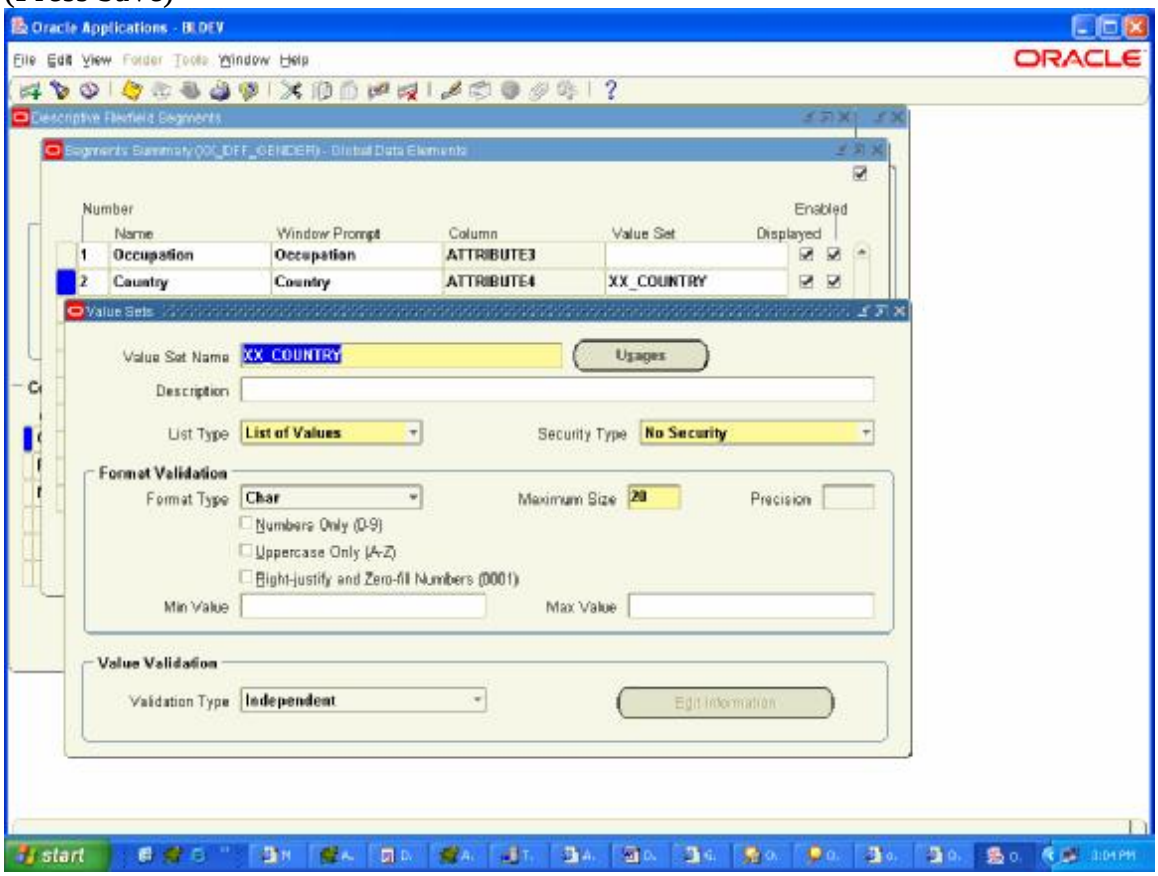
Number : 1 (Any Unique Number can be entered)
Name : Occupation
Column : ATTRIBUTE3 (This means when you save your data the value Placed under Occupation will store in Attribute3 column of custom table XX_XX_DFF).
Displayed : Check
Enabled : Check

Number : 2 (Any number can be entered other then 1 which is already Used)
Name : Country
Column : ATTRIBUTE4 (This means when you save your data the value Placed under Country will store in Attribute4 column of custom table XX_XX_DFF).
Value Set : XX_COUNTRY
Displayed : Check
Enabled : Check
(Press Save)



Creating ValueSet XX_COUNTRY
Place the cursor in Country and Press the Button Value Set. A Form will be displayed . You can also create a Value Set from
Application Dev **à** Application **à** Validation **à** Set

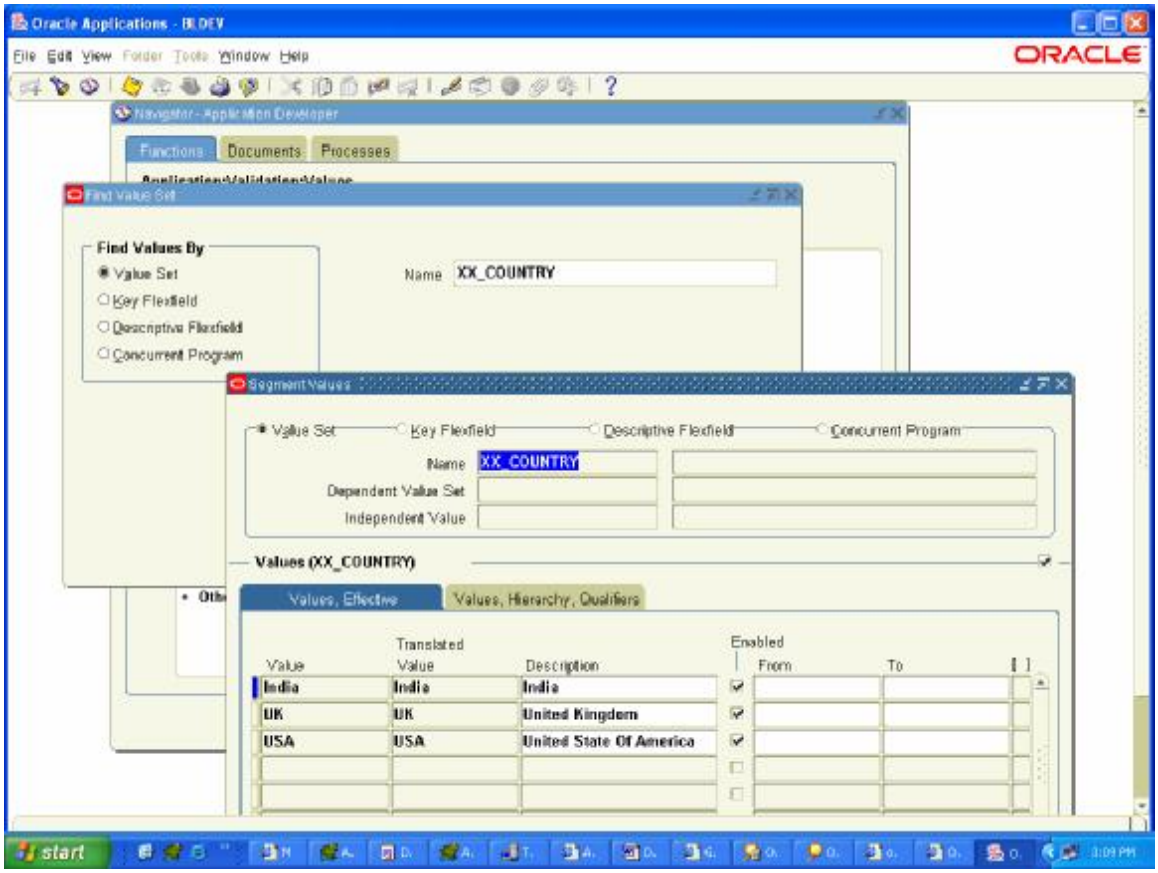
Value Set Name : XX_COUNTRY
Maximum Size : 20
Validation Type : Independent
(Press Save)



Now putting value to this Value Set.

Application Developer **à** Application **à** Validation **à** Values

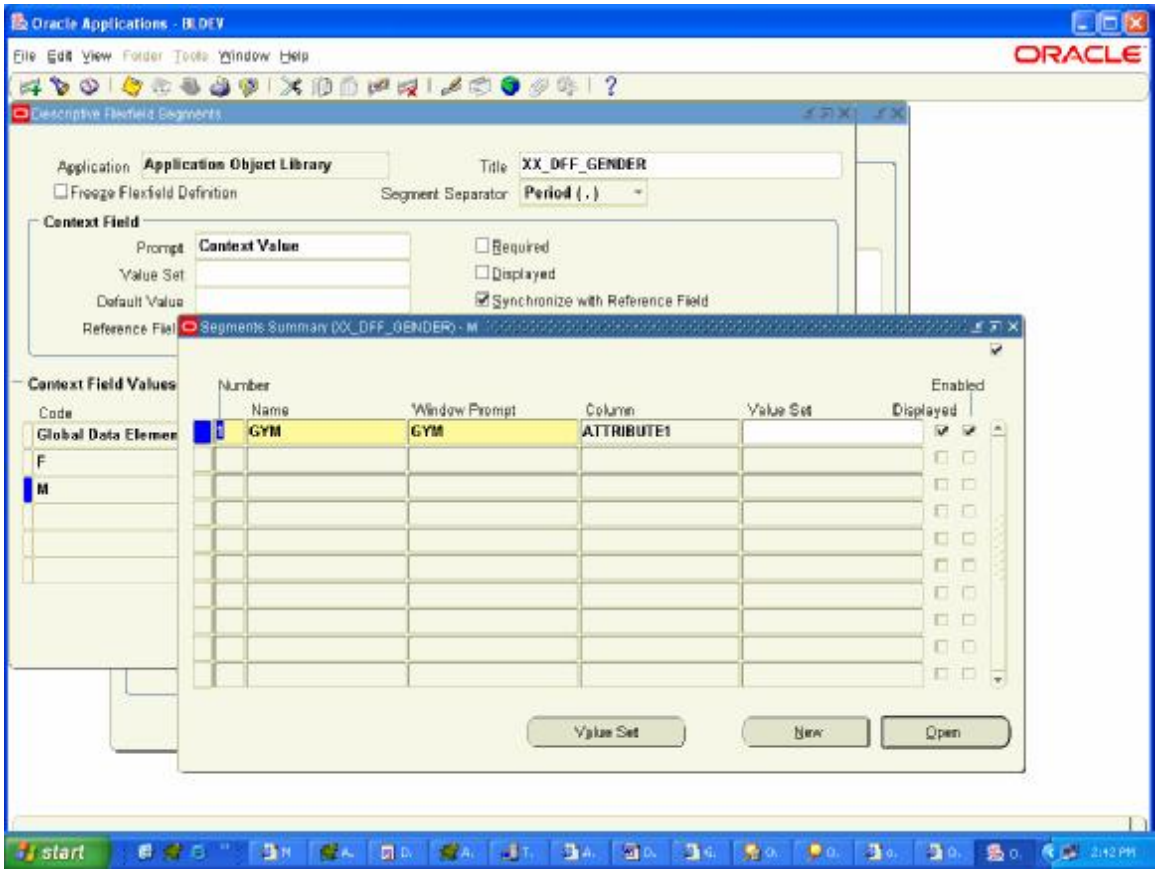
Value	Translated Value	Description	Enabled
India	India	India	check
UK	UK	UK	check
USA	USA	USA	check



Context Field Values contd….

M means if User has enter Gender as M then the Segments created under this will be invoked along with the Global Data Elements Segments
Place the cursor on M and click Segments

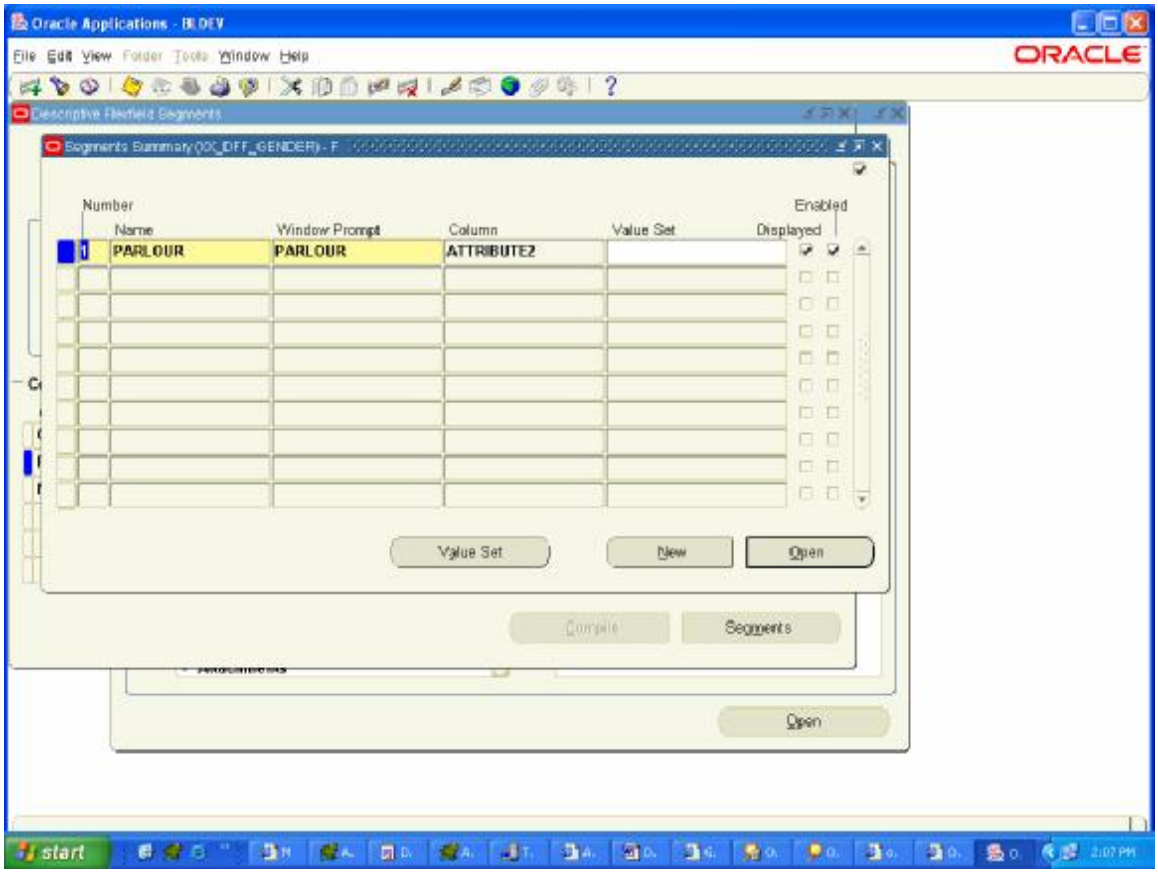
Number : 1
Name : GYM
Column : ATTRIBUTE1
Displayed : Check
Enabled : Check
(Press Save)



Context Field Values contd….

F means if User has enter Gender as F then the Segments created under this will be invoked along with the Global Data Elements Segments
Place the cursor on F and click Segments

Number : 1
Name : PARLOUR
Column : ATTRIBUTE2
(Press Save)



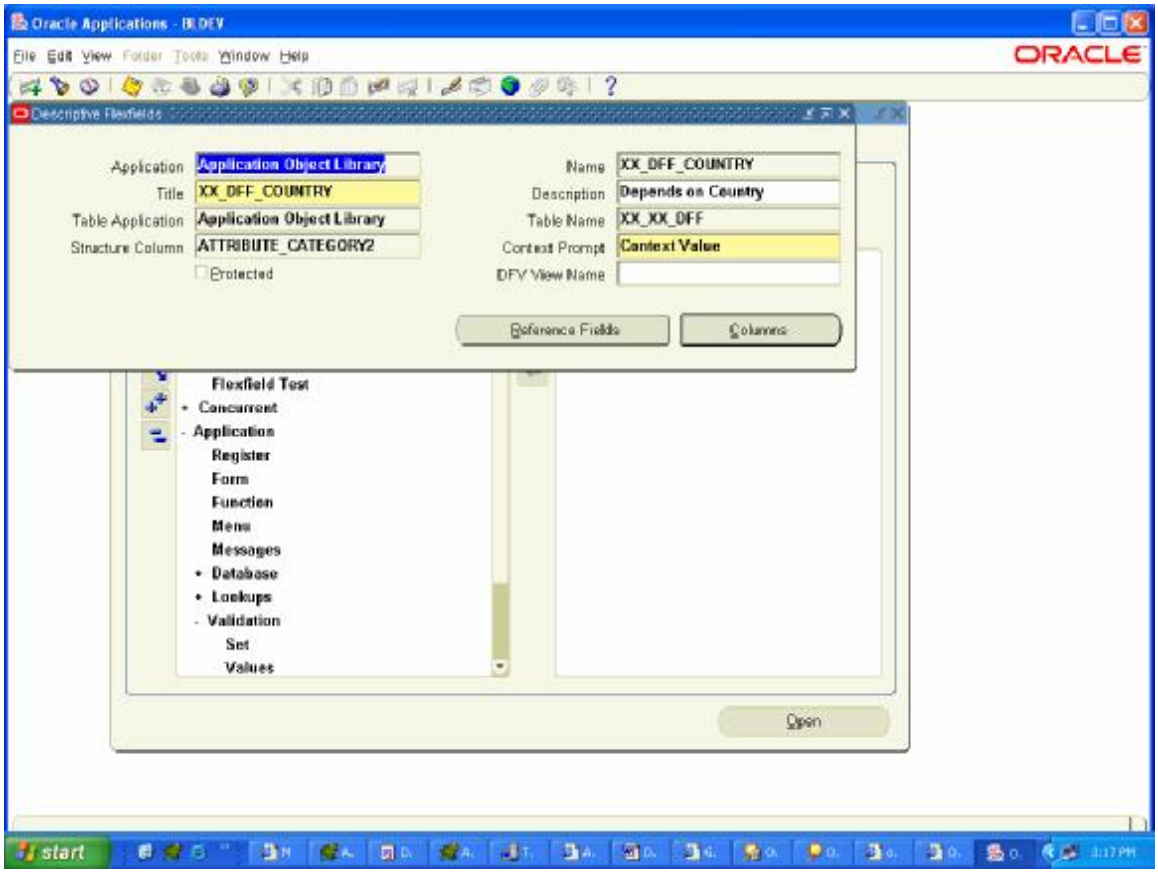
Till here 1st DFF is registered in Apps

Now For 2nd DFF which Depends on Country mentioned in 1st DFF.

Navigation Path : Application Developer à Flexfield à Descriptive à Register

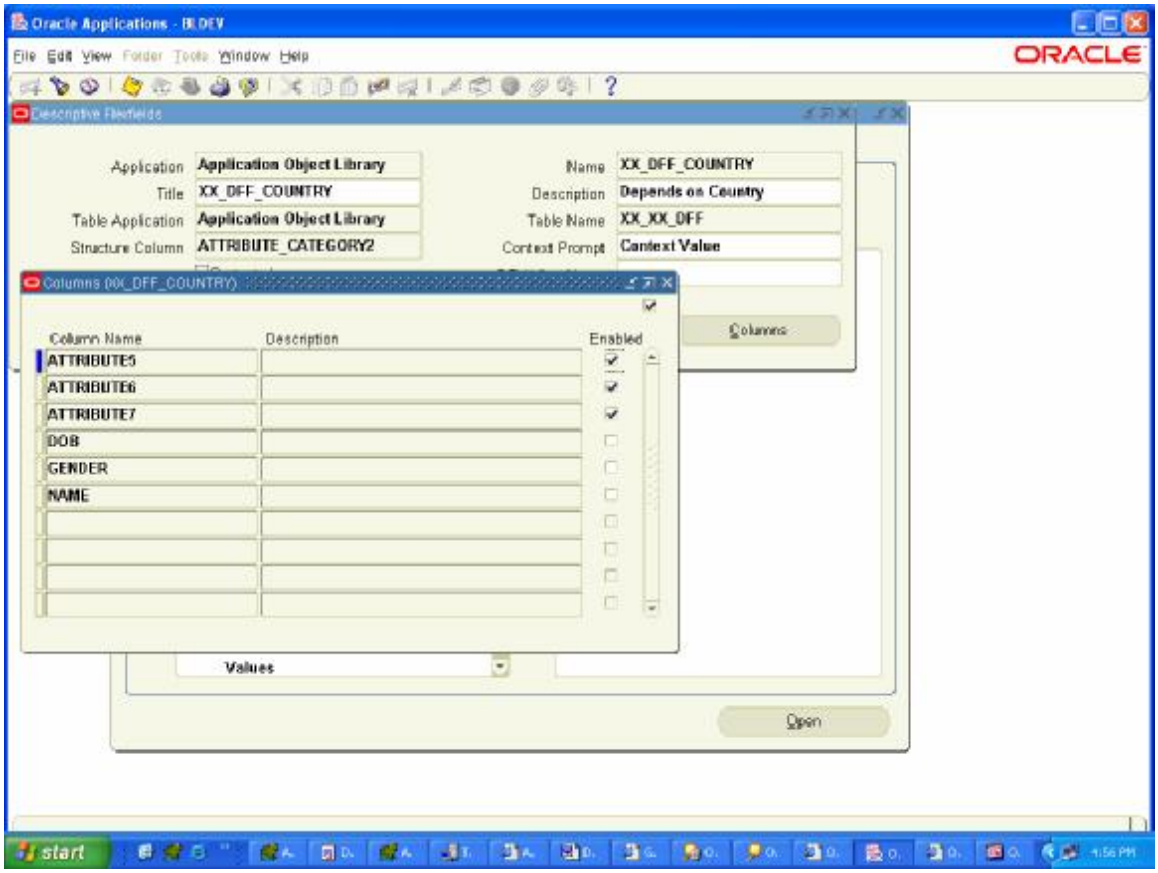
Application	: Application Object Library
Name	: XX_DFF_COUNTRY
Title	: XX_DFF_COUNTRY
Description	: Depends on Country
Table Application	: Application Object Library
Table Name	: XX_XX_DFF
Structure Column	: ATTRIBUTE_CATEGORY2
Context Prompt	: Context Value

(Press Save)



Click Column Button and Check only
ATTRIBUTE5, ATTRIBUTE6, ATTRIBUTE7

Ie Address, City, State from table XX_XX_DFF



Now Create Segments

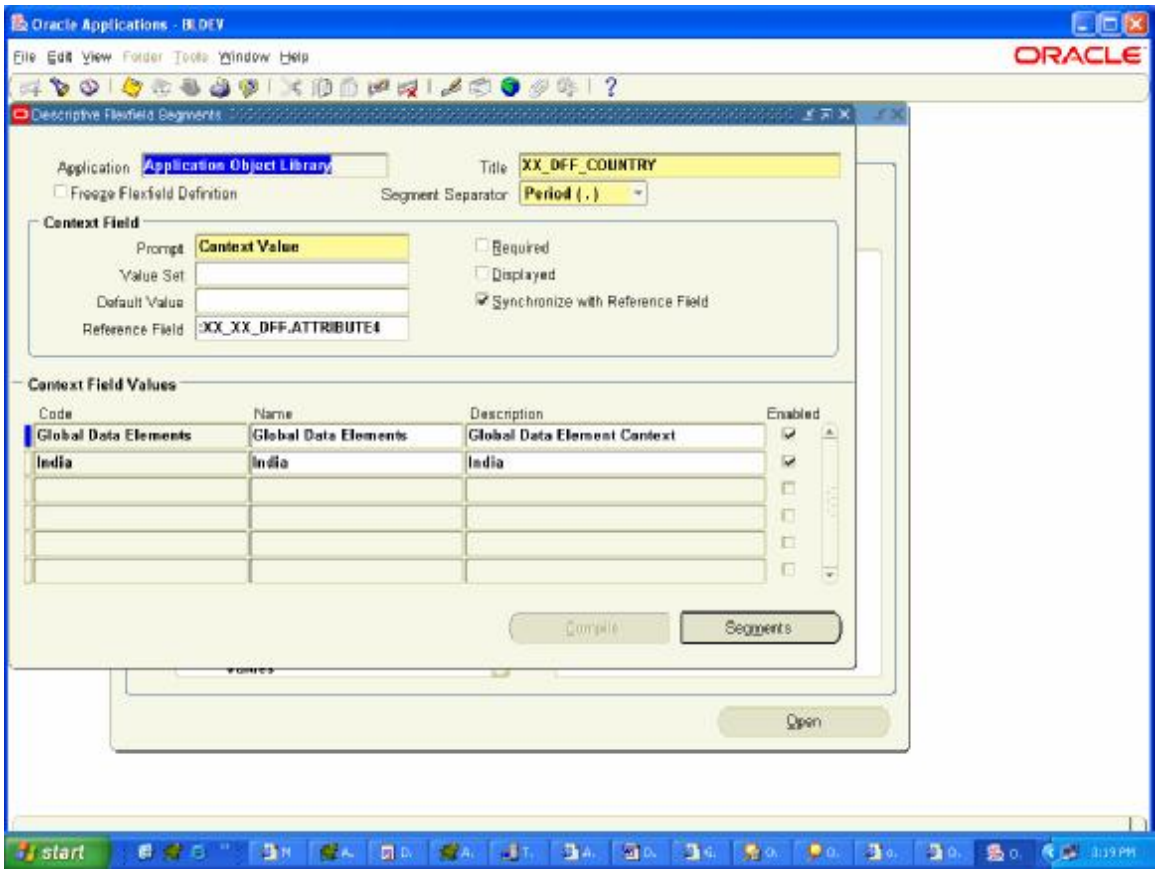
Navigation Path : Application Developer à Flexfield à Descriptive à Segment

Query the Flexfield by Pressing F11 and Copy the Title XX_DFF_COUNTRY in Title field.

1. Unfreeze Flexfield Definition by Unchecking the checkbox Freeze Flexfield Definition.
2. Check Synchronize with Reference Field Checkbox (When Reference Field is not null)
3. Enter :blockname.item_name of your Form (Can be filled later once form is created) in Reference Field.
4. Context Field Values

Code	Name	Description	Enabled
India	India	India	check

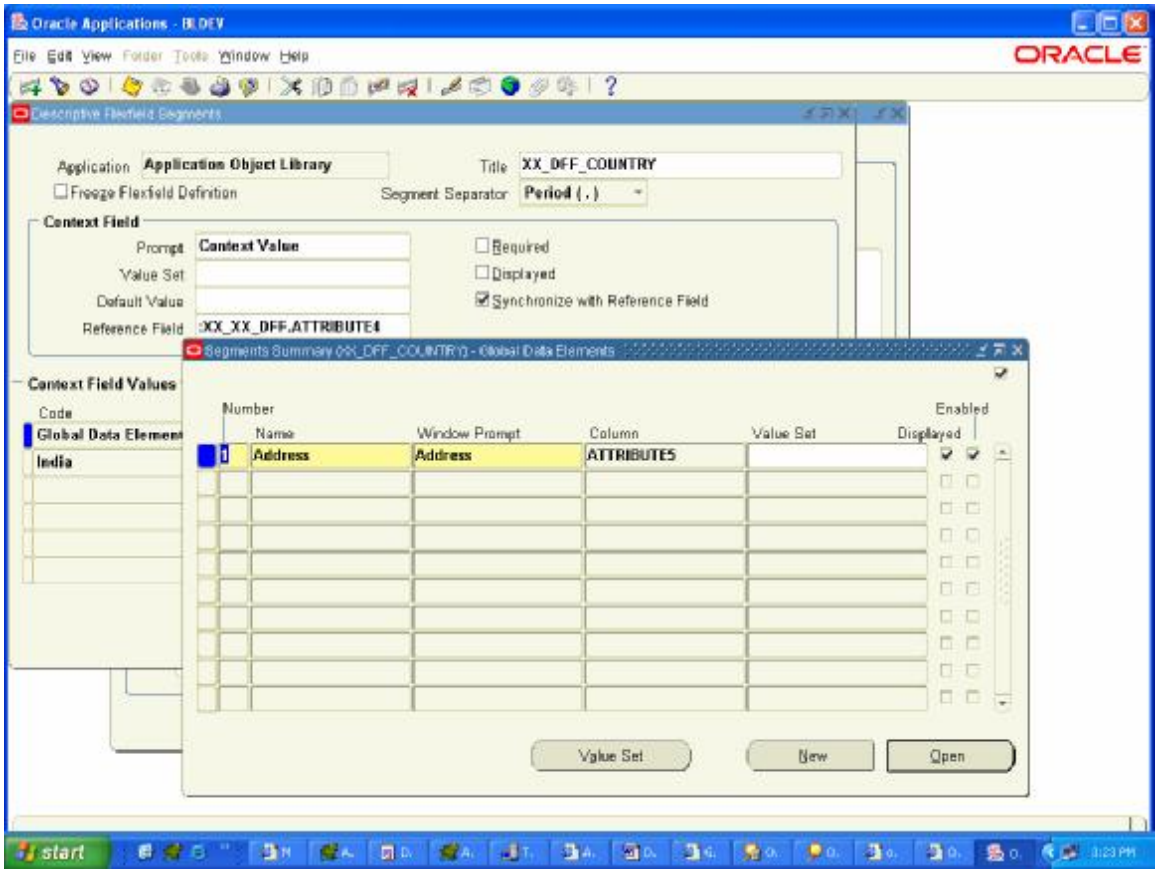
(Global Data Elements is a default Context Field value)



For Global Data Elements

Number : 1
Name : Address
Column : ATTRIBUTE5
Displayed : Check
Enabled : Check

(Press Save)

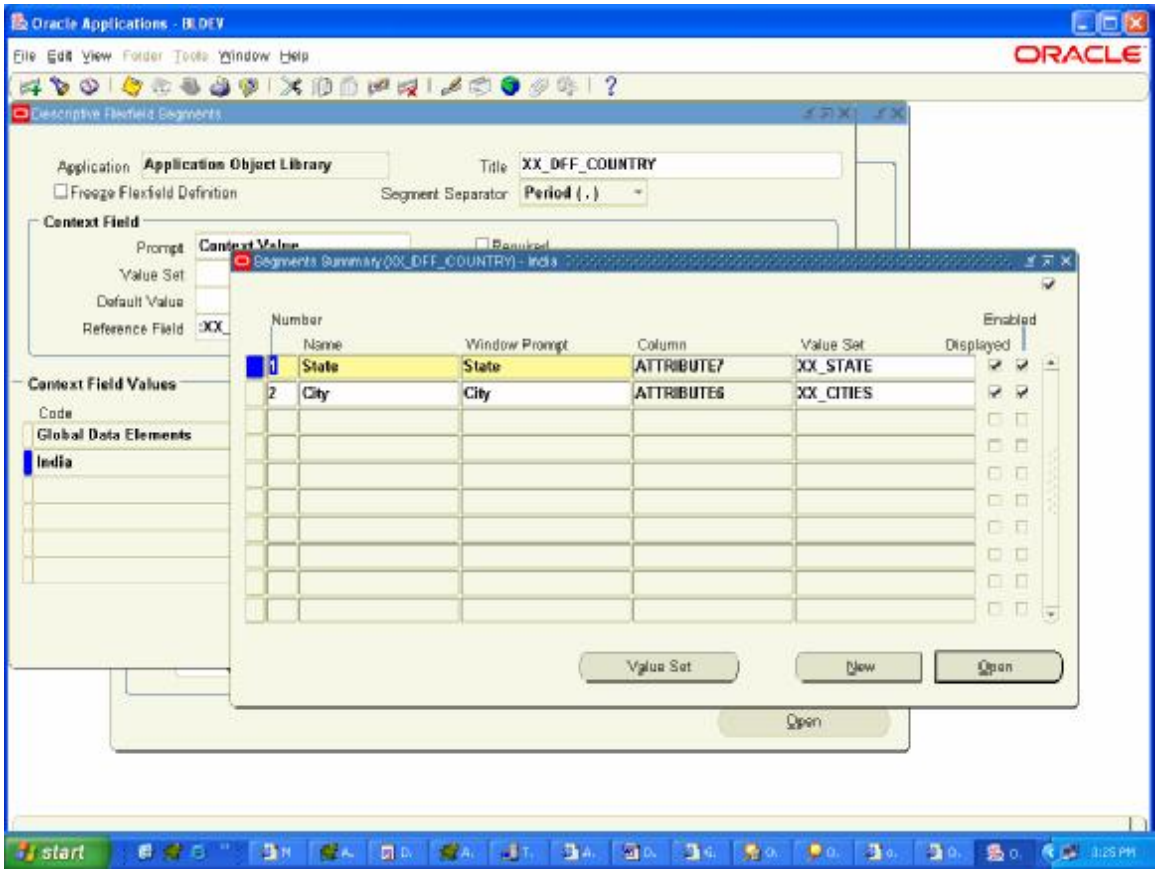


For Context Field Value is India

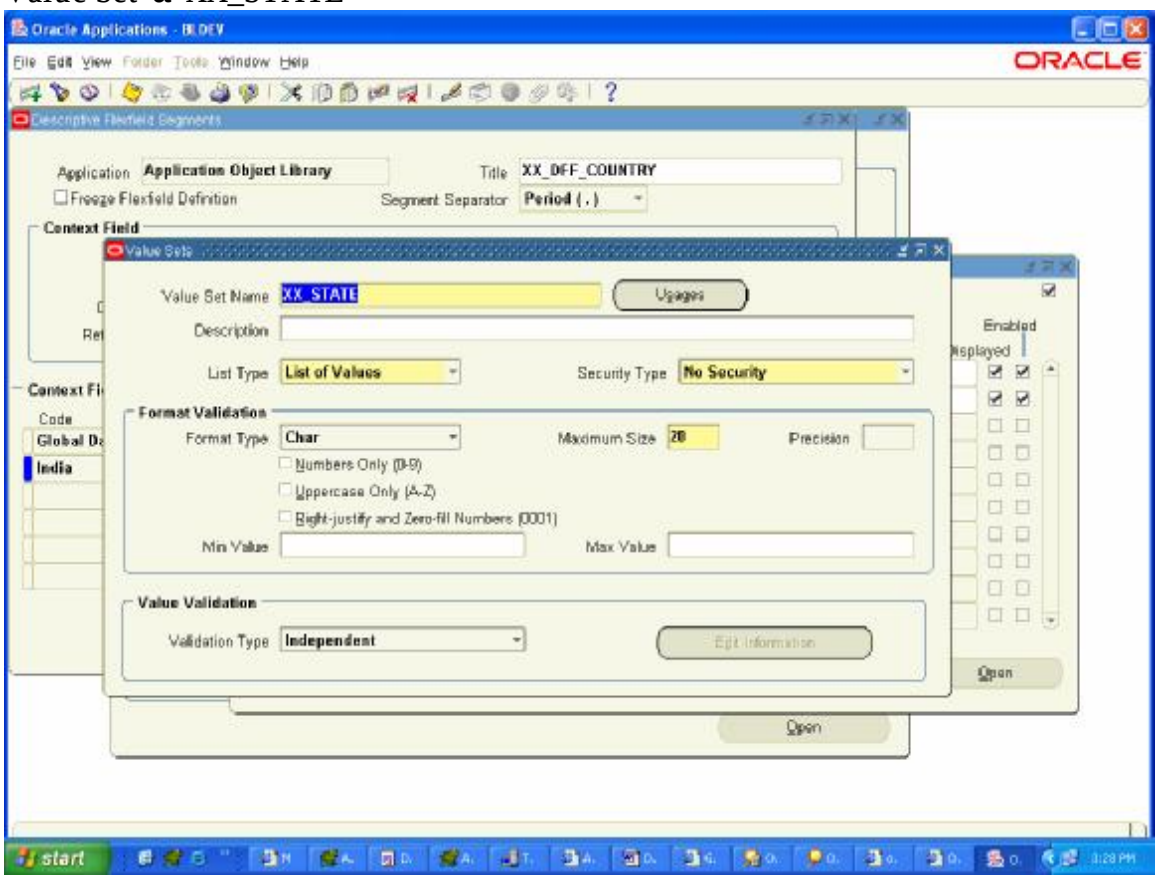
Number : 2
Name : State
Column : ATTRIBUTE7
Value Set : XX_STATE
Displayed : Check
Enabled : Check

Number : 1
Name : City
Column : ATTRIBUTE6
Value Set : XX_CITIES
Displayed : Check
Enabled : Check

(Press Save)


Oracle Applications - DEV
File Edit View Folder Tools Window Help
ORACLE
Descriptive Flexfield Segments
Application Application Object Library
Title XX_DFF_COUNTRY
Freeze Flexfield Definition
Segment Separator Period (.)
Context Field
Prompt
Value Set
Default Value
Reference Field
Context Field Values
Code
Global Data Elements
India
Segments Summary (XX_DFF_COUNTRY) - India
Number
Name
Window Prompt
Column
Value Set
Enabled
Displayed
1 State State ATTRIBUTE7 XX_STATE
2 City City ATTRIBUTE8 XX_CITIES
Value Set
New
Open
Open
start

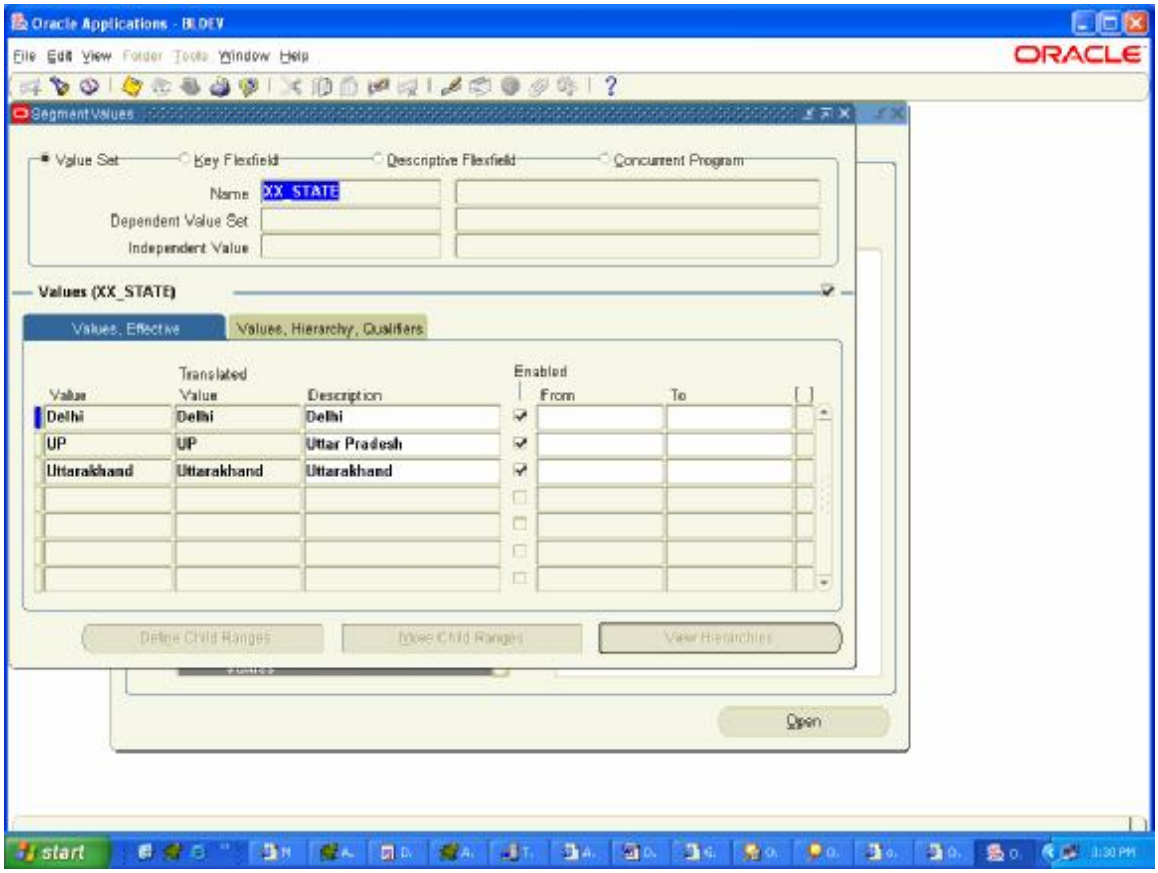
Value Set **à** XX_STATE



Now creating Values of Value Set XX_STATE

Application Developer **à** Application **à** Validation **à** Values

Value	Translated Value	Description	Enabled
Delhi	Delhi	Delhi	check
Uttar Pradesh	Uttar Pradesh	Uttar Pradesh	check
Uttarakhand	Uttarakhand	Uttarakhand	check



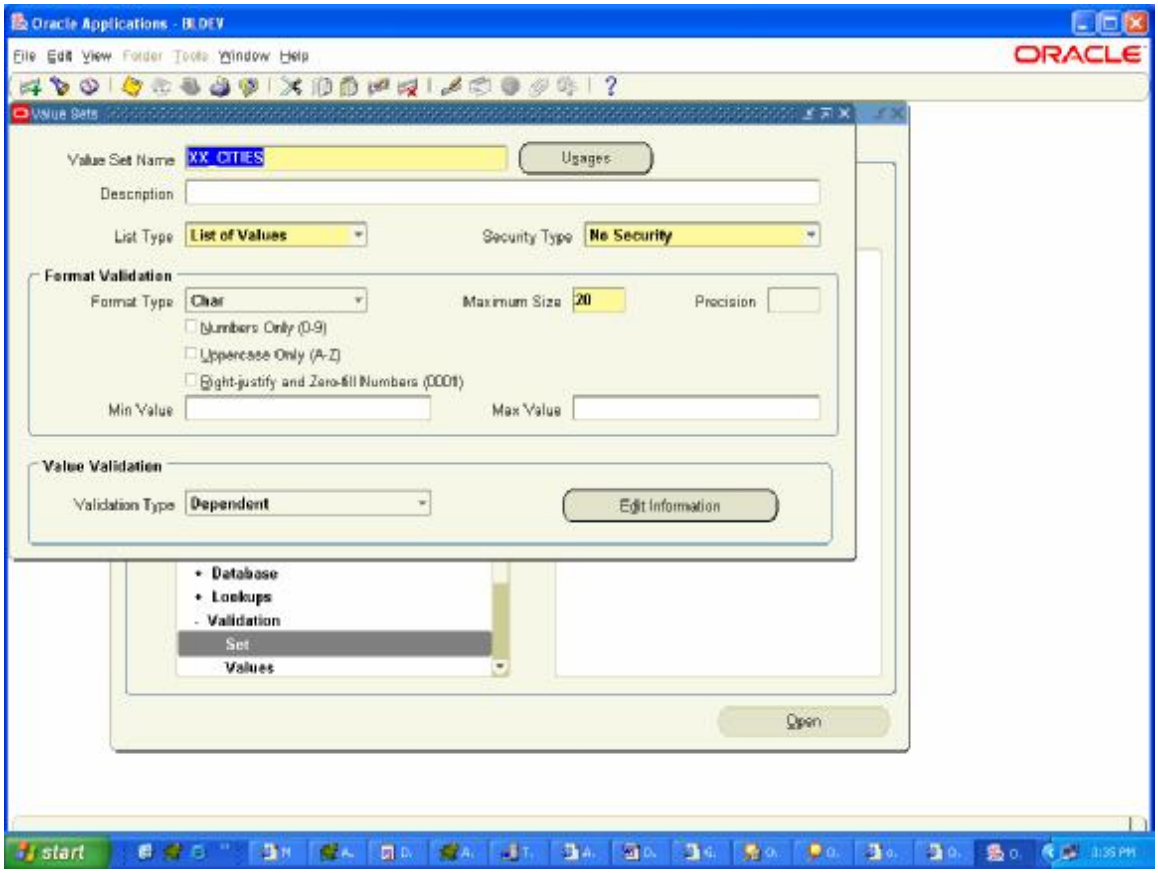
Value Set XX_CITIES

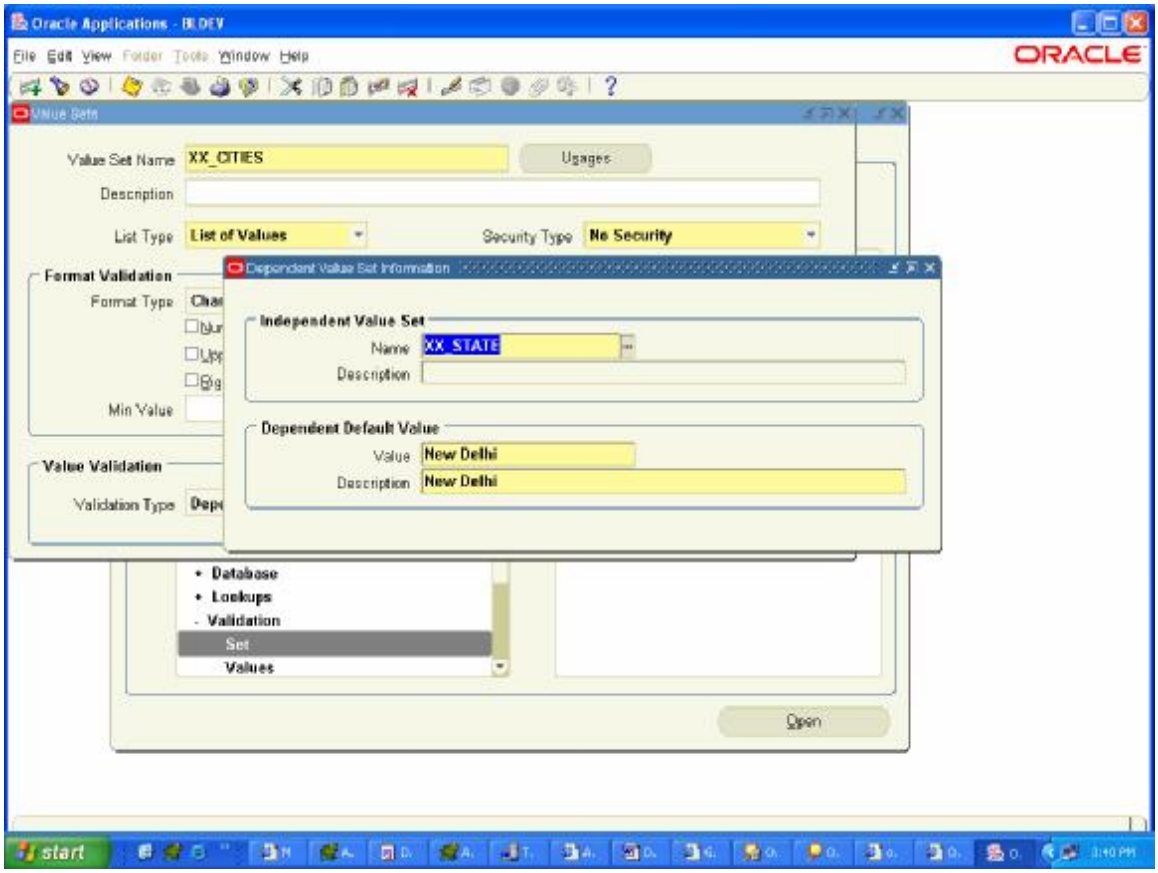
This Value Set is a Dependent Value Set on valueset XX_STATE.

Value Set Name : XX_CITIES
Maximum Size : 20
Validation Type : Dependent

Click Edit Information Button

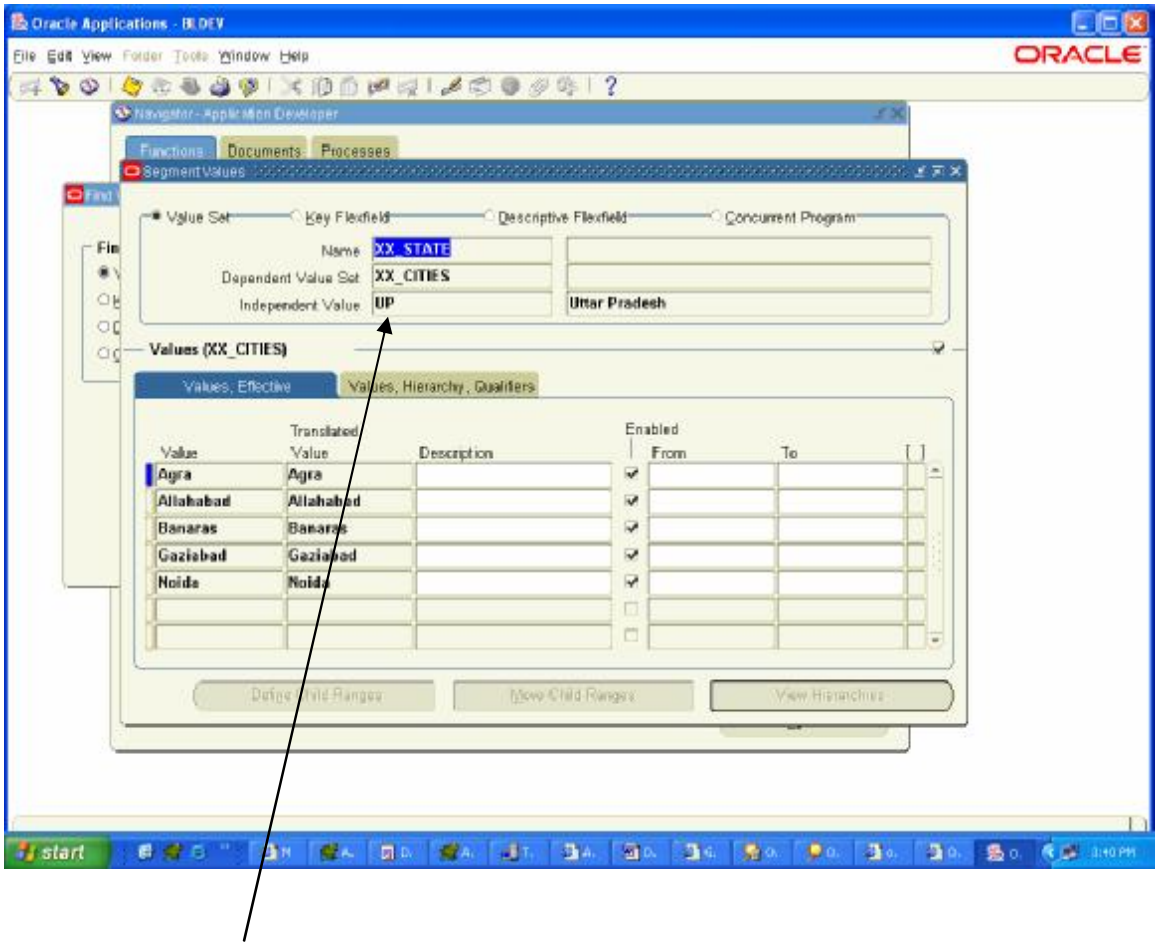
Independent Valueset : XX_STATE
Dependent Default Value : New Delhi
Description : New Delhi
(Press Save)


Oracle Applications - DEV
File Edit View Folder Tools Window Help
ORACLE
Value Sets
Value Set Name
XX_CITIES
Usages
Description
List Type
List of Values
Security Type
No Security
Format Validation
Format Type
Char
Maximum Size
20
Precision
Numbers Only (0-9)
Uppercase Only (A-Z)
Right-justify and Zero-fill Numbers (0001)
Min Value
Max Value
Value Validation
Validation Type
Dependent
Edit Information
Database
Lookups
Validation
Set
Values
Open
start



Now Putting Values to this Value Set.

Navigate
Application Developer **à** Application **à** Validation **à** Values



By Pressing UP and Down Arrow, You can put value for different Independent Value.

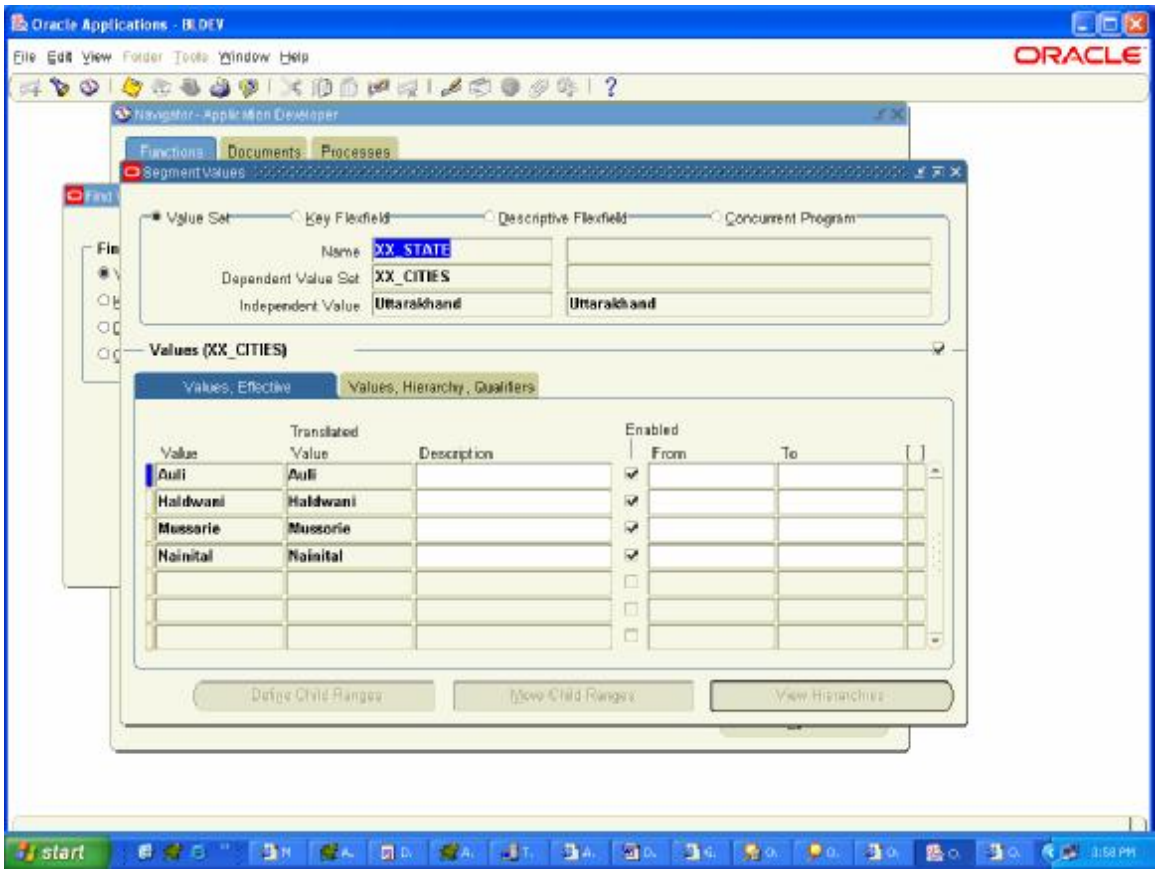
Independent Value : UP

Value	Enable
Agra	check
Allahabad	check
Banaras	check
Gaziabad	check
Noida	check

Press Down Arrow, Next Value for Independent Value Set(XX_STATE) will be Displayed.

Independent Value : Uttarakhand

Value	**Enable**
Auli	check
Haldwani	check
Mussorie	check
Nainital	check



Similarly for value (Delhi) of Independent Value Set (XX_STATE)

Value	**Enable**
New Delhi	check

STEP 3 Create a Custom Form which will Contain DFF

Download Template form from $AU_TOP/forms/US
Create a Window, Canvas
Create Datablock based on Custom Table XX_XX_DFF

Change Properties Visible to NO for ATTRIBUTE1, ATTRIBUTE2, ATTRIBUTE3, ATTRIBUTE4, ATTRIBUTE5, ATTRIBUTE6, ATTRIBUTE7

Properties for ATTRIBUTE_CATEGORY1, ATTRIBUTE_CATEGORY2
Subclass Information : TEXT_ITEM_DESC_FLEX
LOV : ENABLE_LIST_LAMP
Validate from List : NO
Database Item : NO

Program Unit (Package Spec)

```
PACKAGE XX_DFF_PKG IS
   PROCEDURE XX_DFF_PROC (EVENT VARCHAR2);
END;
```

Package Body

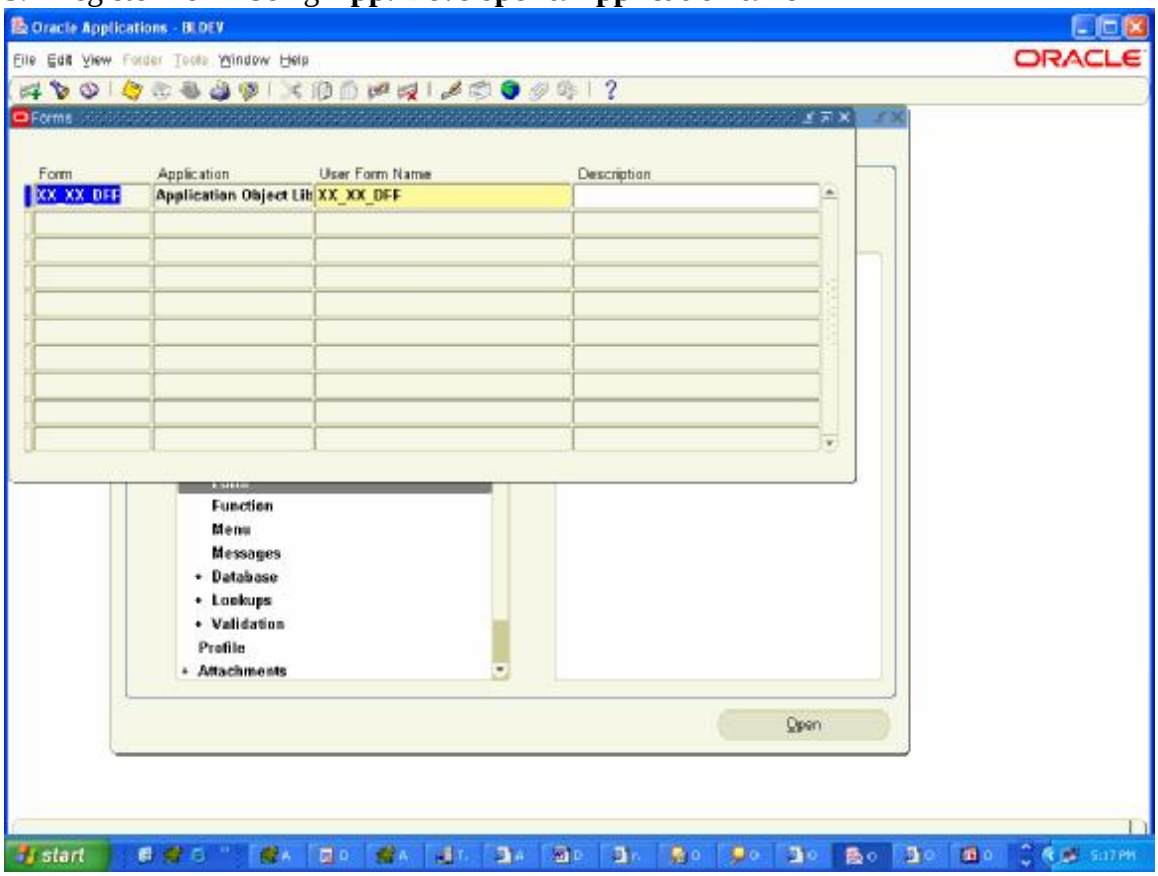
```
PACKAGE BODY XX_DFF_PKG IS

 PROCEDURE XX_DFF_PROC (EVENT VARCHAR2)
 IS
 BEGIN
        IF EVENT = 'WHEN-NEW-FORM-INSTANCE' THEN

                        --- FOR 1st DFF WHICH CONTAIN
                        --- GYM OR PARLOUR (Depends on Gender)
                        --- OCCUPATION  and COUNTRY

        FND_DESCR_FLEX.DEFINE(
                BLOCK => 'XX_XX_DFF',
                FIELD => 'ATTRIBUTE_CATEGORY1',
                APPL_SHORT_NAME => 'FND',
                DESC_FLEX_NAME => 'XX_DFF_GENDER'   );

                        -- FOR 2nd DFF WHICH CONTAIN
                        -- ADDRESS
                        -- CITY
                        -- STATE (Depends on Country from 1st DFF)

        FND_DESCR_FLEX.DEFINE(
                BLOCK => 'XX_XX_DFF',
                FIELD => 'ATTRIBUTE_CATEGORY2',
                APPL_SHORT_NAME => 'FND',
                DESC_FLEX_NAME => 'XX_DFF_COUNTRY'  );

        END IF;

   END ;

END;
```

Change in Triggers

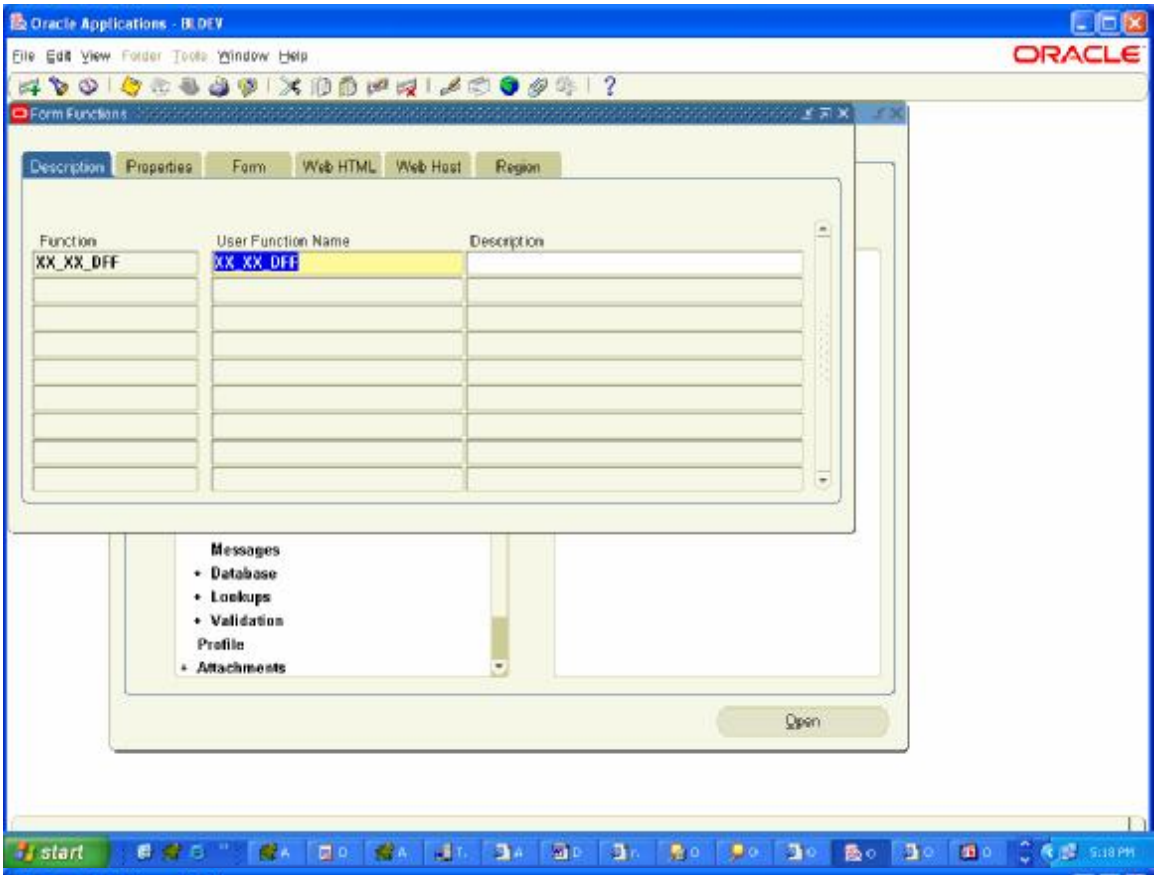
1. When-New-Form-Instance :
   XX_DFF_PKG.XX_DFF_PROC('WHEN-NEW-FORM-INSTANCE');
2. When-New-Item-Instance:
   FND_FLEX.EVENT('WHEN-NEW-ITEM-INSTANCE');

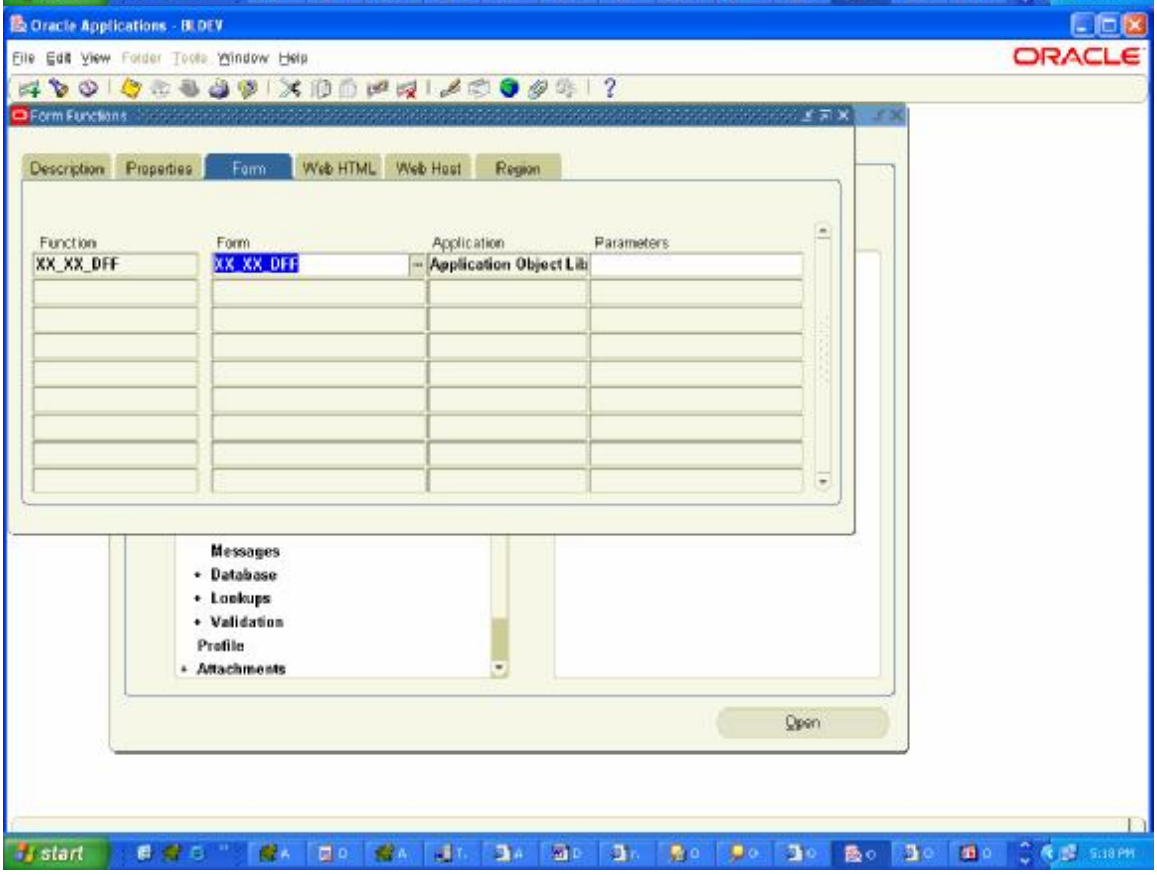
STEP 4 Register this Form with Apps

1. FTP the form to $FND_TOP/forms/US (I've registered my DFF with FND)
2. Telnet to $FND_TOP/forms/US run
   f60gen XX_XX_DFF.fmb apps/password@db_name
3. Register Form Using **App. Developer à Application à Form**



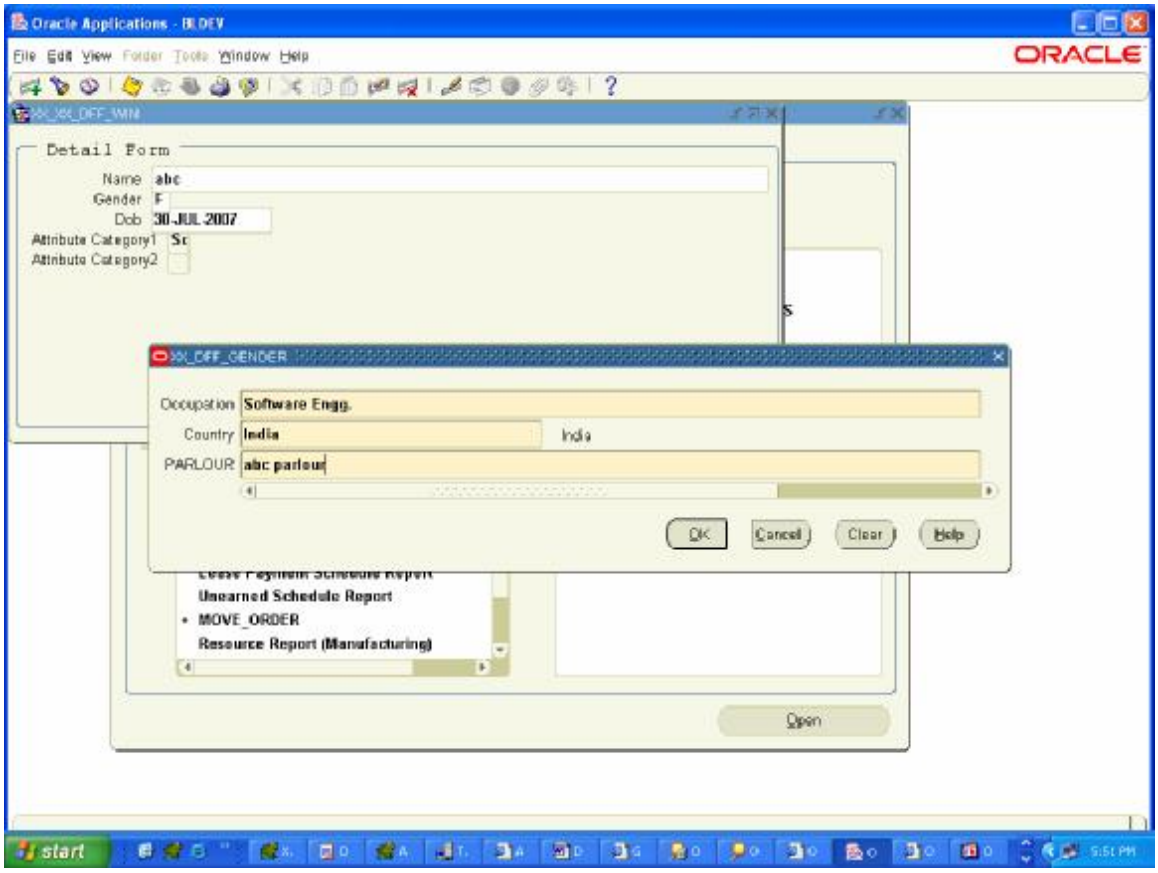
4. Register Form with Function
   Using **App. Developer à Application à Function**

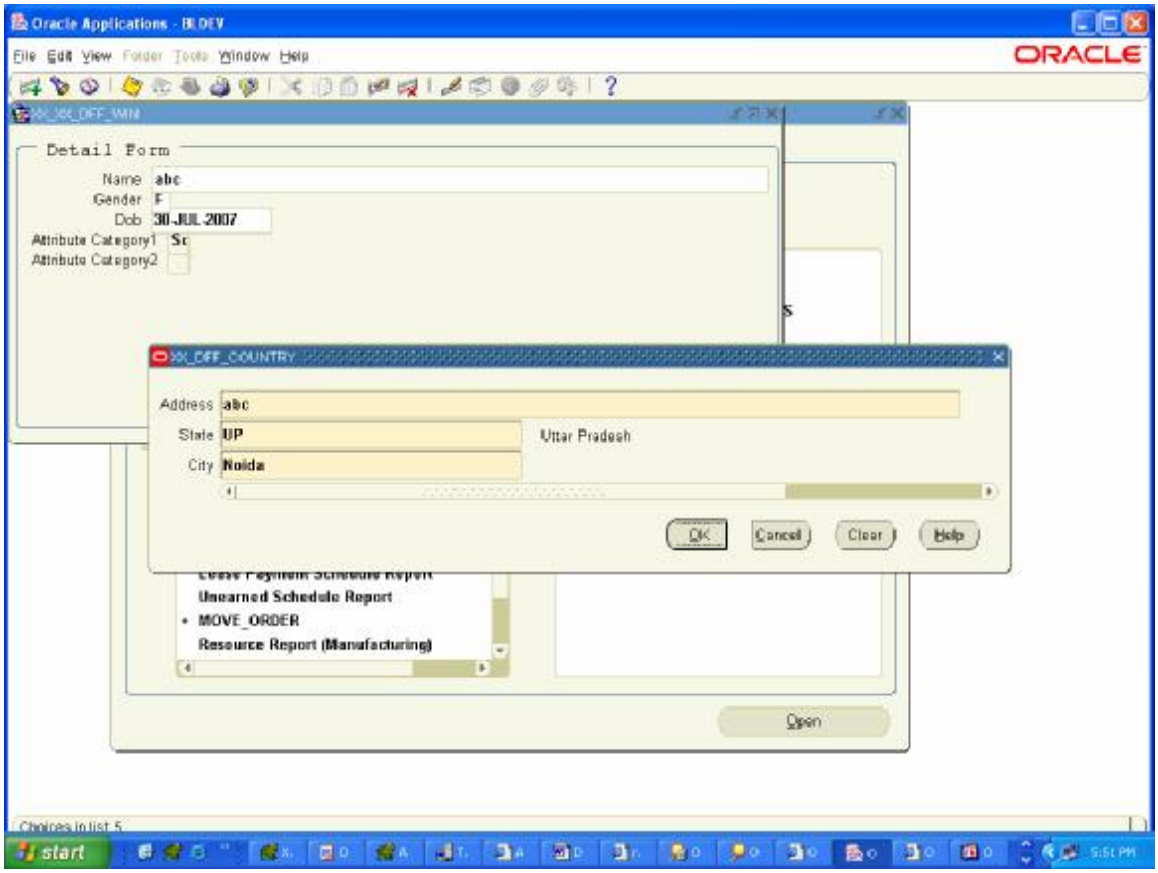

Oracle Applications - BLDEV
File Edit View Folder Tools Window Help
ORACLE
Form Functions
Description Properties Form Web HTML Web Host Region
Function
User Function Name
Description
XX_XX_DFF
XX_XX_DFF
Messages
Database
Lookups
Validation
Profile
Attachments
Open
start


Oracle Applications - BLDEV
File Edit View Folder Tools Window Help
ORACLE
Form Functions
Description Properties Form Web HTML Web Host Region
Function
Form
Application
Parameters
XX_XX_DFF
XX_XX_DFF
Application Object Lib
Messages
Database
Lookups
Validation
Profile
Attachments
Open
start

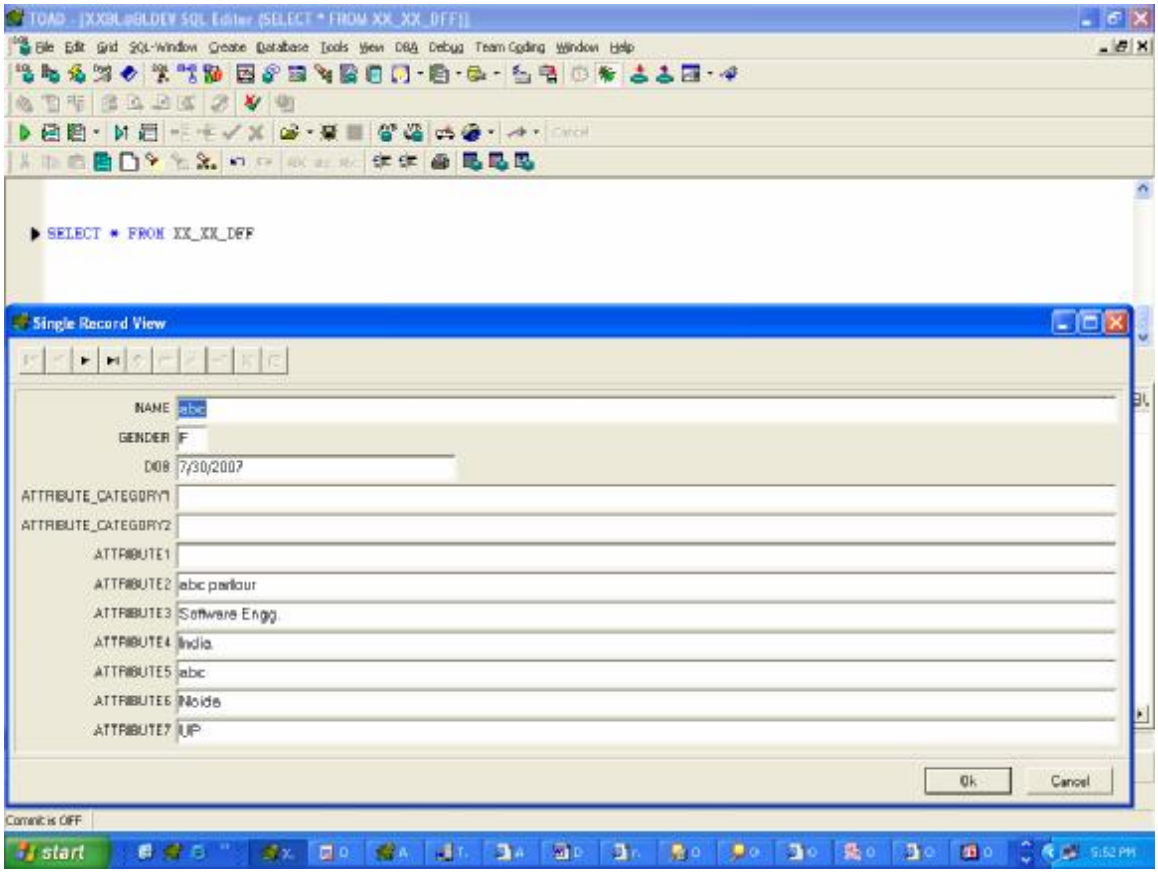
5. Add this Function into a Menu.

DFF is Ready Now
Login to that Responsibility which Contain this Menu





You can Query this Record in Table …


SELECT * FROM XX_XX_DFF
Single Record View
NAME abc
GENDER F
DOB 7/30/2007
ATTRIBUTE_CATEGORY1
ATTRIBUTE_CATEGORY2
ATTRIBUTE1
ATTRIBUTE2 abc parlour
ATTRIBUTE3 Software Engg
ATTRIBUTE4 India
ATTRIBUTE5 abc
ATTRIBUTE6 Noida
ATTRIBUTE7 UP
Ok
Cancel
Commit is OFF
start