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



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

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

# <u>STEP 1 :</u>

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','ATTRIBUTE3',8,'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','ATTRIBUTE5',10,'VARCHAR2',100,'N','N'); END;

#### STEP 2: Register DFF with Apps

Navigation Path: Application Developerà Flexfieldà Descriptiveà 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)	

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

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# Now Click on Button Column and Check only

# ATTRIBUTE1, ATTRIBUTE2, ATTRIBUTE3, ATTRIBUTE4

i.e GYM, PARLOUR, Occupation, Country.

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**Now Create Segments** 

Navigation Path : Application Developerà Flexfieldà Descriptiveà 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
Μ	Μ	Male	check
(Global Data	Elements is a	default Context Field	d value)

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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 1<sup>st</sup> 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. 1<sup>st</sup> 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
Name Column	: Country : ATTRIBUTE4 (This means when you save your data the value
Name Column Placed under	: Country : ATTRIBUTE4 (This means when you save your data the value Country will store in Attribute4 column of custom table XX_XX_DFF
Name Column Placed under ).	: Country : ATTRIBUTE4 (This means when you save your data the value Country will store in Attribute4 column of custom table XX_XX_DFF
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Name Column Placed under ). Value Set Displayed	: Country : ATTRIBUTE4 (This means when you save your data the value Country will store in Attribute4 column of custom table XX_XX_DFF : XX_COUNTRY : Check
Name Column Placed under ). Value Set Displayed Enabled	: Country : ATTRIBUTE4 (This means when you save your data the value Country will store in Attribute4 column of custom table XX_XX_DFF : XX_COUNTRY : Check : Check

(Press Save)

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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 Devà Applicationà Validationà Set

# Value Set Name: XX\_COUNTRYMaximum Size: 20Validation Type: Independent(Press Save): Independent

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Now putting value to this Value Set.

Application Developerà Applicationà Validationà Values

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

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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: 1Name: GYMColumn: ATTRIBUTE1Displayed: CheckEnabled: Check(Press Save): Check

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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: 1Name: PARLOURColumn: ATTRIBUTE2(Press Save):

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Till here 1st DFF is registered in Apps

Now For 2<sup>nd</sup> DFF which Depends on Country mentioned in 1<sup>st</sup> DFF.

Navigation Path : Application Developerà Flexfieldà Descriptiveà Register

Application	: Application Object Library
Name	: XX_DFF_COUNTRY
Title	: XX_DFF_COUNTRY
Description	: Depends on Country
<b>Table Application</b>	: Application Object Library
Table Name	: XX_XX_DFF
Structure Column	: ATTRIBUTE_CATEGORY2
Context Prompt	: Context Value
 Sava	

(Press Save)

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# Click Column Button and Check only ATTRIBUTE5, ATTRIBUTE6, ATTRIBUTE7

Ie Address, City, State from table XX\_XX\_DFF

criptive Flexifieids				STX1 SX	
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Now Create Segments

Navigation Path: Application Developerà Flexfieldà Descriptiveà 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 <u>Code Name Description Enabled</u> India India India check (Global Data Elements is a default Context Field value)

Application 210 Ent	on Object Library	Title XX_DFF_COUNTRY	1	
Context Field Prompt C Value Set Default Value Reference Field D	aniext Value	☐ Bequired ☐ Displayed ☞ Synchronize with Reference Field		
ntext Field Values Code Johal Data Elements	Name Global Data Elements	Description Global Data Element Cantext	Enabled	
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# For Global Data Elements

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

(Press Save)

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- Context Field Prompt	Conte	xt Value	Bequired			
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Reference Field	DX X	X_DFF.ATTRIBUTE4				
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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)

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# Value Set à XX\_STATE

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Now creating Values of Value Set XX\_STATE

# Application Developerà Applicationà Validationà Values

Value	Translated Value	Description	Enabled
Delhi	Delhi	Delhi	check
<b>Uttar Pradesh</b>	n 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\_CITIESMaximum Size: 20Validation Type: Dependent

**Click Edit Information Button** 

Independent Valueset : XX\_STATE Dependent Default Value : New Delhi Description : New Delhi (Press Save)

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Now Putting Values to this Value Set.

# Navigate

Application Developerà Applicationà Validationà Values

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

Independent Value : UPValueEnableAgracheckAllahabadcheckBanarascheckGaziabadcheckNoidacheck

Press Down Arrow, Next Value for Independent Value Set(XX\_STATE) will be Displayed.

Independent Value : UttarakhandValueEnableAulicheckHaldwanicheck

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Similarly for value (Delhi) of Independent Value Set (XX\_STATE)

ValueEnableNew Delhicheck

# **<u>STEP 3</u>** 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\_CATEGORY2Subclass Information : TEXT\_ITEM\_DESC\_FLEXLOV: ENABLE\_LIST\_LAMPValidate from List: NODatabase 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');

#### **<u>STEP 4</u>** 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. Developerà Applicationà Form

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4. Register Form with Function

Using App. Developerà Applicationà Function

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5. Add this Function into a Menu.

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

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