

Software Engineering Lab

Oracle Developer 11g

LAB 2

Lab Practice: List Of Values (LOV)

- A scrollable popup window that allows the user to pick an item value from a **multi value dynamic list**
- Advantages of LOV:
 - Displays more than one field
 - Displays data from multiple tables

List Of Values (LOV)

Oracle Application Server Forms Services - Microsoft Internet Explorer

Address: <http://orclvpc:8889/forms/frmservlet>

ORACLE

WINDOW1

Empno: 233 Ename: asdd Job: E
Mgr: Hiredate: 11-OCT-2011 Sal: 233
Comm: 0 Deptno: 30
Gender:

Departments Information

Find %

Deptno	Dname	Loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

Find OK Cancel

Opening <http://orclvpc:8889/forms/lsvervlet;jsessionid=c0a8834122b927358d5477f44409a00ffc156e2e28f4> Local intranet

Start Oracle SQL*Plus Start OC4J Instance Oracle Forms Builder - ... Oracle Application S... 5:55 PM

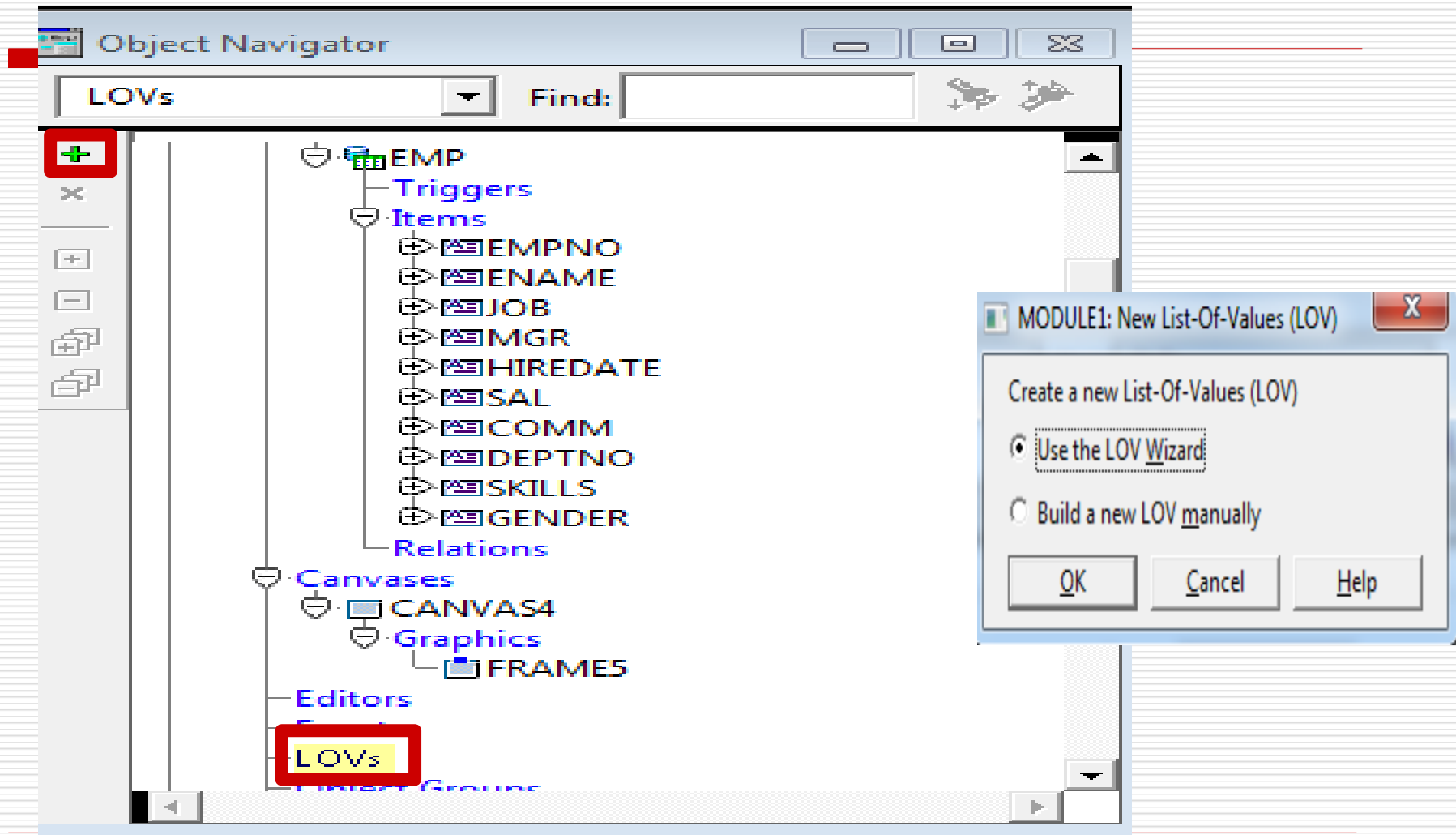
List of Values (LOV)

□ Key Steps:

- 1. Select:** columns
- 2. Return:** which column in the LOV to which item on the form
- 3. Assign:** which item will be linked to the LOV (when we set focus on this item and we press F9, LOV appears)

Lab Practice: List Of Values LOV (cont.)

- ❑ Select the **LOVs node** in the object navigator, click create icon '+'
- ❑ In the New LOV dialog, choose to build a **new LOV using wizard**
- ❑ Choose '**New record group based on a query**'. A **record group** is an object used to store the array of values that are represented by LOV.
Record Group: internal oracle data structure that has a column/row framework structure similar to a database table



LOV Wizard: Step 1

Oracle Forms Builder - MODULE1 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

LOV Wizard

LOVs get their data from Record Groups, which may be populated using SQL queries, or by entering a static list of values.

Do you want to base your LOV on a new Record Group, or use an existing Record Group? If you want a new Record Group, you must base that Record Group on a SQL query.

New Record Group based on a query

Existing Record Group

Cancel Help < Back Next > Finish

Object Navigator:

- MODULE1
 - Triggers
 - Alerts
 - Attached Libraries
 - Data Blocks
 - EMP
 - Triggers
 - Items
 - EMPNO
 - ENAME
 - JOB
 - MGR
 - HIREDATE
 - SAL
 - COMM
 - DEPTNO
 - SKILLS
 - GENDER
 - Relations
 - Canvases
 - CANVAS2
 - Graphics
 - FRAME3
 - Editors
 - LOVs
 - Object Groups
 - Parameters
 - Popup Menus
 - Program Units
 - Property Classes
 - Record Groups

Close the window (saving any changes that may have been made).

Mod: MODULE1 File: MODULE1

List Of Values LOV: Step 1

- ❑ Click '**Build SQL query**', Choose **DEPT** table, press include then close
- ❑ Select the **fields** you want to include in LOV (if all, double click title bar)
- ❑ The query is displayed. The order of columns in the select statement is the order in which they will appear the LOV



Record Groups can be based on SQL queries. Do you want to enter or modify the query that your LOV's Record Group uses?

If so, you may use the Query Builder by clicking Build SQL Query. Or, you may enter your query directly into the SQL Query Statement field below.

SQL Query Statement

LOV Wizard: Step 1

Oracle Forms Builder - MODULE1 - [Object Navigator]

Select Data Tables

Show

- Tables
- Views
- Snapshots
- Synonyms

SCOTT

Select Data Tables

- DEPT
- EMP
- I\$RM\$APPLICATION_LOGIC
- I\$RM\$ELEMENT_TYPE_EXTENSIONS
- I\$RM\$NLS_DATA_TYPE_VALUES
- I\$RM\$NLS_ELEMENT_TYPES
- I\$RM\$NLS_LANGUAGES
- I\$RM\$NLS_MESSAGE_GROUPS
- I\$RM\$NLS_MESSAGES
- I\$RM\$NLS_PROPERTIES

Info... Include Close Help

DEPT

- DEPTNO
- DNAME
- LOC

Press include then close

OK Cancel Help

Close the window (saving any changes that may have been made).

Mod: MODULE1 File: MODULE1

LOV Wizard



Record Groups can be based on SQL queries. Do you want to enter or modify the query that your LOV's Record Group uses?

If so, you may use the Query Builder by clicking Build SQL Query. Or, you may enter your query directly into the SQL Query Statement field below.

Build SQL Query...

Import SQL Query...

SQL Query Statement

```
SELECT ALL DEPT.DEPTNO, DEPT.DNAME, DEPT.LOC  
FROM DEPT
```

Connect...

Check Syntax...

Cancel

Help

< Back

Next >

Finish

LOV Wizard: Step 1

LOV Wizard

Your LOV may include some or all of the columns in the Record Group. Which Record Group columns do you wish to include in your LOV?

Record Group Columns

DEPTNO
DNAME
LOC

LOV Columns

>
>>
<<
<

Cancel Help < Back Next > Finish

Oracle Forms Builder - MODULE1 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

LOV Wizard

Your LOV may include some or all of the columns in the Record Group. Which Record Group columns do you wish to include in your LOV?

Record Group Columns

LOV Columns

DEPTNO
DNAME
LOC

Cancel Help < Back Next > Finish

MODULE1
Triggers
Alerts
Attached Libraries
Data Blocks
EMP
Triggers
Items
EMPNO
ENAME
JOB
MGR
HIREDATE
SAL
COMM
DEPTNO
SKILLS
GENDER
Relations
Canvases
CANVAS2
Graphics
FRAME3
Editors
LOVs
Object Groups
Parameters
Popup Menus
Program Units
Property Classes
Record Groups

Close the window (saving any changes that may have been made).

List Of Values LOV: Step 2

To set the return value:

1. **focus** on column
2. press '**Look up return items**', it displays items of EMP form
3. choose **EMP.deptno**

LOV Wizard: Step 2

Look up Return Item

Oracle Forms Builder - MODULE1 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

LOV Wizard

If you wish to specify the LOV column properties, you may enter a title, width and return value for each LOV column. The units for the column width are pixels.

Set cursor on column 1

Column	Title	Width	Return value
DEPTNO	Deptno	27	
DNAME	Dname	101	
LOC	Loc	95	

3

Find: EMP. %

- EMP.EMPNO
- EMP.ENAME
- EMP.JOB
- EMP.MGR
- EMP.HIREDATE
- EMP.SAL
- EMP.COMM
- EMP.DEPTNO
- EMP.SKILLS
- EMP.GENDER

Look up return item...

< Back Next > Finish

EMP.DEPTNO
Mod: MODULE1 File: MODULE1

EMP.DEPTNO

Mod: MODULE1 File: MODULE1



Start OC4J Instance

Oracle Forms Builder - ...



LOV Wizard: Step 2

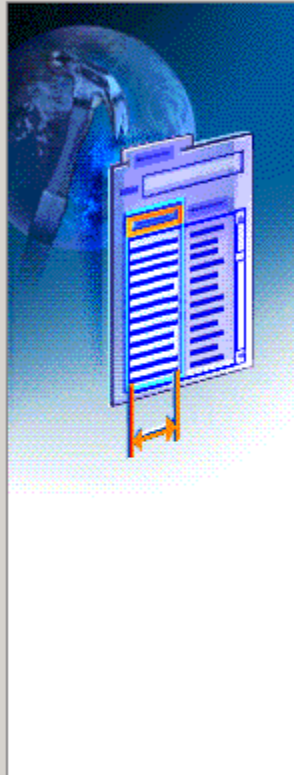
Oracle Forms Builder - MODULE1 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help



- MODULE1
 - Triggers
 - Alerts
 - Attached Libraries
 - Data Blocks
 - EMP
 - Triggers
 - Items
 - EMPNO
 - ENAME
 - JOB
 - MGR
 - HIREDATE
 - SAL
 - COMM
 - DEPTNO
 - SKILLS
 - GENDER
 - Relations
- Canvases
 - CANVAS2
 - Graphics
 - FRAME3
- Editors
- LOVs
- Object Groups
- Parameters
- Popup Menus
- Program Units
- Property Classes
- Record Groups

LOV Wizard



If you wish to specify the LOV column properties, you may enter a title, width and return value for each LOV column. The units for the column width is Points.

Column	Title	Width	Return value
DEPTNO	Deptno	27	EMP.DEPTNO
DNAME	Dname	101	
LOC	Loc	95	

Automatically size columns

Look up return item...

Cancel

Help

< Back

Next >

Finish

Mod: MODULE1 File: MODULE1



Start OC4J Instance

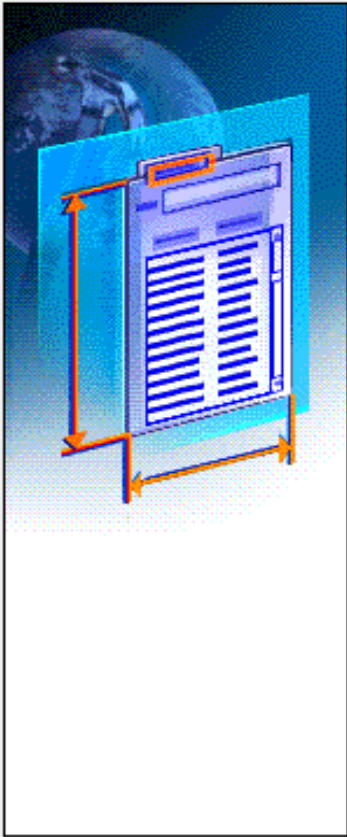
Oracle Forms Builder - ...



LOV Wizard

- ❑ Change the **LOV title** into Department Info
- ❑ Set **Numbers of rows to be retrieved**, or leave default value 0 so that Oracle automatically specifies the size of the record group to be fetched.

LOV Wizard



What title would you like to display in your LOV window?

Title:

What size would you like your LOV to be? The units for the LOV size and position are Points.

Width: Height:

Do you want Forms Runtime to position your LOV?

Yes, let Forms position my LOV automatically

No, I want to position it manually

Left: Top:

Cancel Help < Back Next > Finish

LOV Wizard

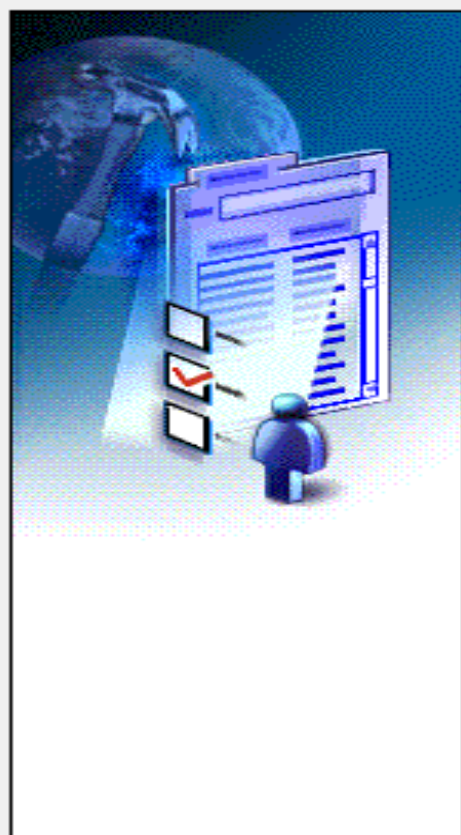
Refresh record group before display option means that the records displayed in LOV will be queried every time the LOV is involved

Use filter before display option means which records are displayed when the LOV is invoked at runtime.

The user can enter a value in Find item and press find button, then only records satisfying entered criteria are displayed.

If not checked, all records will be displayed in the LOV when it is invoked.

LOV Wizard



Do you want to modify the advanced properties that affect the behavior of your LOV?

If you are not familiar with their usage, it is recommended that you accept the defaults as they appear below.

Retrieve rows at a time.

- Refresh record group data before displaying LOV
- Let the user filter records before displaying them

Cancel

Help

< Back

Next >

Finish

Department Info

Enter a partial value to limit the list, % to see all values.

Warning: Entering % to see all values may take a very long time. Entering criteria that can be used to reduce the list may be significantly faster.

Find %

Deptno	Dname	Loc
--------	-------	-----

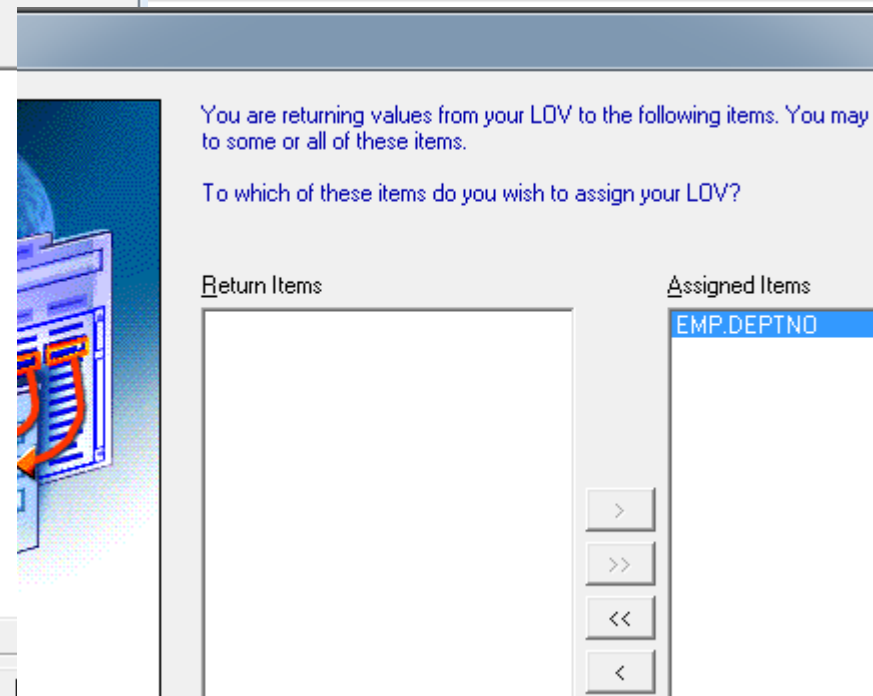
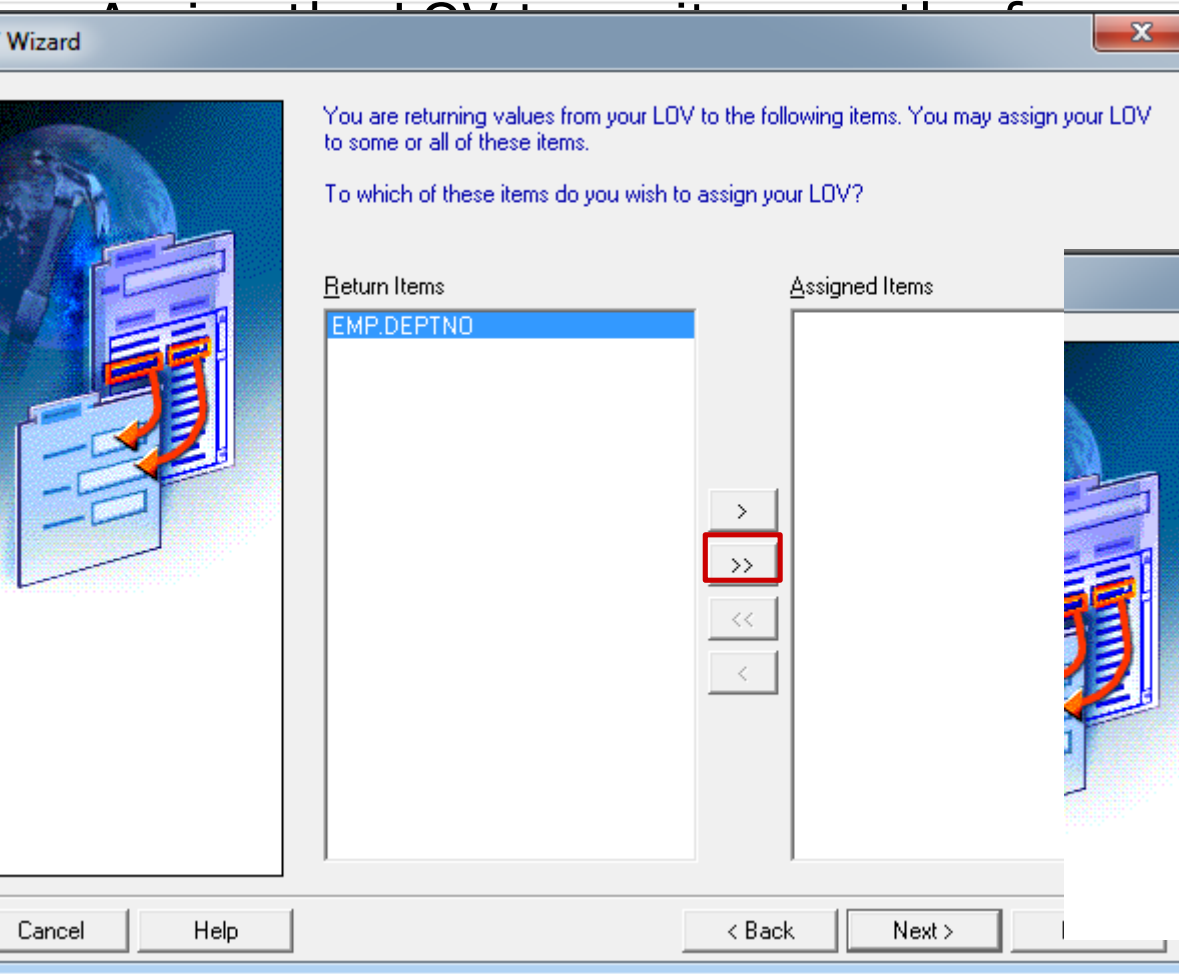
Find OK Cancel

If you checked let the user filter results

Then, the user will be forced when running the form to use find option to filter the search

LOV Wizard: Step 3

Assigned Item





To create the new LOV and any associated Record Group, click Finish. The Object Navigator will display an entry for your new LOV.

To modify the LOV in the future, you can recall the LOV Wizard. To do so, select the LOV in the Navigator, and choose LOV Wizard from the Tools Menu.

Cancel

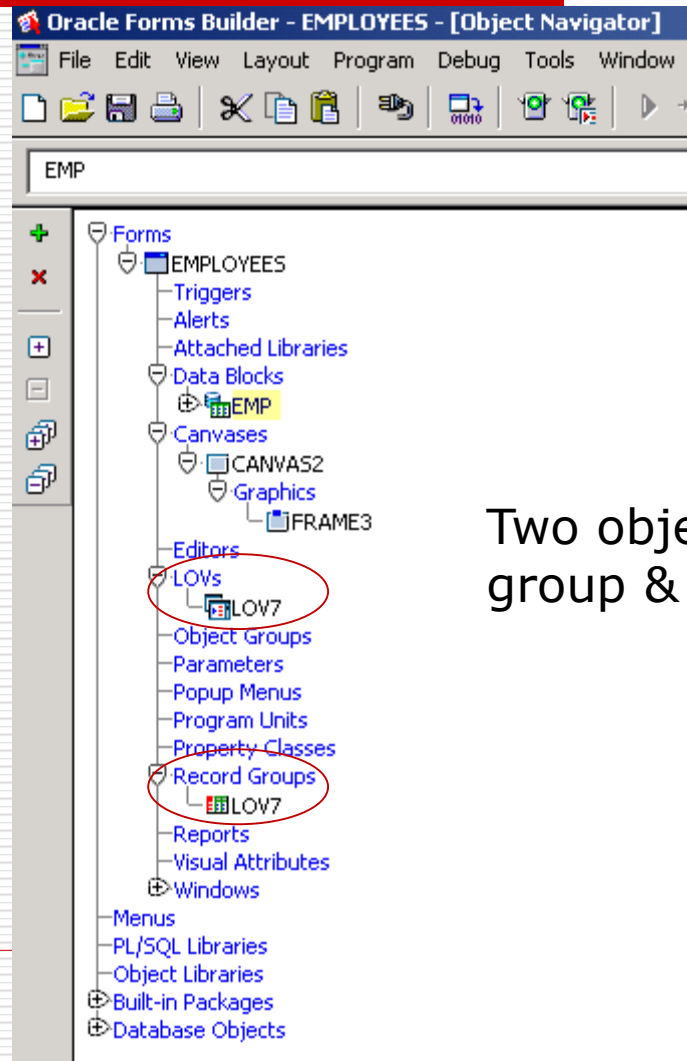
Help

< Back

Next >

Finish

List Of Values LOV (cont.)



Two objects are created: record group & LOV (with the same name)

LOV Properties (cont.)

- To **display** the LOV in runtime, select item associated with the LOV, **Menu => Edit => Display list**
OR press **F9**
- If you want the LOV to be **automatically displayed**, **LOV property palette => Automatic display => Yes**

Property Palette

Find:

LOV: LOV6

General	
Name	LOV6
Subclass Information	
Comments	
Functional	
Title	Department Info
List Type	Record Group
Record Group	LOV6
Column Mapping Properties	
Filter Before Display	Yes
Automatic Display	Yes
Automatic Refresh	Yes
Automatic Select	No
Automatic Skip	No

Display LOV automatically on navigation into item to which LOV is attached?

Lab Practice: Calculated Fields

- They are read only.
- **Calculation modes:**
 - **Formula:** the calculated field is a result of a horizontal calculation of an equation involving one or more form items.
 - **Summary:** the calculated field is a result of a vertical calculation involving the values of a single item over all the rows within a single block through a group function.

Lab Practice: Formula Item (cont.)

Creating an item based on a formula:

- Create data block based on Emp table.
- In the layout editor, create a new **display** item, in its property palette:
 - **Data type => number.**
 - Set the **Database Item** property to **NO**.
 - Set the **calculation mode property** to **Formula**.
 - In the **Formula** property, click more and enter the PL/SQL expression.

Lab Practice: Formula Item (cont.)

The screenshot displays the 'employee' form in an Oracle Forms application. The form contains several input fields and controls:

- Empno:** EMPNO
- Job:** JOB (dropdown menu)
- Comm:** COMM
- Skills:**
- Mgr:** MGR
- Deptno:** DEPTNO
- Hiredate:** HIREDATE
- Ename:** ENAME
- Sal:** SAL
- Gender:** male femal

The label **DISPLAY_ITEM18** is highlighted with a red box. In the toolbar on the left, the **A-** icon is also highlighted with a red box and a red arrow pointing to it.

Formula Item Properties

The screenshot shows the Oracle Forms Builder interface. The title bar reads "Oracle Forms Builder - EMPLOYEES - [Property Palette]". The menu bar includes File, Edit, View, Layout, Program, Debug, Tools, Window, and Help. The toolbar contains various icons for file operations and development. The main area shows the Property Palette for item "GROSS".

The Property Palette is organized into sections:

- Data**
 - Data Type: Number
 - Data Length Semantics: Null
 - Maximum Length: 30
 - Initial Value:
 - Format Mask:
 - Copy Value from Item:
 - Synchronize with Item: <Null>
- Calculation**
 - Calculation Mode: Formula
 - Formula: NVL (:sal, 0) + NVL (:comm, 0)
 - Summary Function: None
 - Summarized Block: <Null>
 - Summarized Item: <Null>
- Records**
- Database**
 - Database Item: No
 - Column Name:
 - Primary Key: No
 - Query Only: No
- Physical**

A red arrow points from the "Formula" property in the Calculation section to a dialog box titled "Formula". The dialog box contains the text: `NVL (:sal, 0) + NVL (:comm, 0)`. The dialog has "OK" and "Cancel" buttons.

At the bottom of the Property Palette, there is a description: "Single PL/SQL expression that determines value for formula calculated item."

The status bar at the bottom shows "Mod: EMPLOYEES File: EMPLOYEES".

Lab Practice: Formula Item (cont.)

- Run the form. Note that the formula value changes for each emp record.

WINDOW1

employee

Empno	8015	Skills	<input checked="" type="checkbox"/>	Ename	naden
Job		Mgr		Hiredate	
Comm		Deptno		Sal	567
			<input type="radio"/> male		<input type="radio"/> femal

567

WINDOW1

employee

Empno	7521	Skills	<input checked="" type="checkbox"/>	Ename	WARD
Job	SALESMAN	Mgr	7698	Hiredate	22-FEB-1981
Comm	500	Deptno	30	Sal	1250
			<input type="radio"/> male		<input type="radio"/> femal

1750

Lab Practice: Formula Item (cont.)

Rules:

- ❑ The formula **must not** execute any **DML** statements.
- ❑ **Do not terminate** the PL/SQL expression with a **semi-colon**.
- ❑ If the PL/SQL expression involves an **assignment operator**, do not write it.

Lab Practice: Summary Item

Creating an item that calculates the maximum salary:

- Create a new **display** item.
- Set **Data type property** to **Number**.
- Set the **calculation mode** to **Summary**.
- Select the required **function 'MAX'** from the summary function pop-up list.
- From **Summarized Block property**, select the block over which rows will be summarized **'EMP'**.³³

Lab Practice: Summary Item

(cont.)

■ From the **Summarized Item property**, select the item to be summarized **'SAL'**.

■ In the affected block (**EMP**), set the **Query all records property** to **yes**.

(Database data block handles only the currently displayed record, but we want it to query all the records.)

Lab Practice: Summary Item

(cont.)

employee

Empno	EMPNO	Skills	<input checked="" type="checkbox"/>	Ename	ENAME
Job	JOB	Mgr	MGR	Hiredate	HIREDATE
Comm	COMM	Deptno	DEPTNO	Sal	SAL
	DISPLAY_ITEM22	DISPLAY_ITEM18	<input type="radio"/> male	<input type="radio"/> female	

Lab Practice: Summary Item

(cont.)

Oracle Forms Builder - EMPLOYEES - [Property Palette]

File Edit View Layout Program Debug Tools Window Help



Item: MAXIMUM

General	
<input checked="" type="checkbox"/> Name	MAXIMUM
<input checked="" type="checkbox"/> Item Type	Display Item
↳ Subclass Information	
↳ Comments	
↳ Help Book Topic	
Functional	
Navigation	
Data	
<input checked="" type="checkbox"/> Data Type	Number
↳ Data Length Semantics	Null
↳ Maximum Length	30
↳ Initial Value	
↳ Format Mask	
↳ Copy Value from Item	
↳ Synchronize with Item	<Null>
Calculation	
<input checked="" type="checkbox"/> Calculation Mode	Summary
<input checked="" type="checkbox"/> Formula	
<input checked="" type="checkbox"/> Summary Function	Max
<input checked="" type="checkbox"/> Summarized Block	EMP
<input checked="" type="checkbox"/> Summarized Item	SAL
Records	

Mod: EMPLOYEES File: EMPLOYEES

Lab Practice: Summary Item

(cont.)

Rules:

- The summary item must reside in the **same block** as the summarized item.
- The summarized item must reside in a block whose **query all records property** is set to **yes**.

Summary Item (cont.)

The screenshot shows the Oracle Forms Builder interface for the 'EMPLOYEES' data block. The 'Property Palette' is open, displaying various properties for the 'Data Block: EMP'. The 'Records' section is expanded, and the 'Query All Records' property is highlighted with a red circle and set to 'Yes'.

Data Block: EMP	
General	
▣ Name	EMP
▾ Subclass Information	
▾ Comments	
Navigation	
Records	
▾ Current Record Visual Attribute Group	<Null>
▾ Query Array Size	0
▾ Number of Records Buffered	0
▾ Number of Records Displayed	1
Query All Records	Yes
▾ Record Orientation	Vertical
▾ Single Record	No
Database	
▾ Database Data Block	Yes
▾ Enforce Primary Key	No
▾ Query Allowed	Yes
▾ Query Data Source Type	Table
▣ Query Data Source Name	EMP
▣ Query Data Source Columns	
▾ Query Data Source Arguments	

Summary Item (cont.)

employee

Empno	<input type="text" value="1"/>	Skills	<input checked="" type="checkbox"/>	Hiredate	<input type="text"/>	Ename	<input type="text" value="HassanBaha"/>
Job	<input type="text" value="SALES"/>	Mgr	<input type="text"/>			Sal	<input type="text" value="5000"/>
Comm	<input type="text"/>	Deptno	<input type="text" value="10"/>				
	<input type="text" value="20000"/>		<input type="text" value="5000"/>	<input type="radio"/> male	<input type="radio"/> femal		

Data Blocks With Relationships

Master-Detail

- ❑ A form module can contain one or more data blocks; each can be standalone or related to another data block.
 - ❑ **Master-Detail relationship** equates to the one-to-many relationship.
 - ❑ The **master data block** is based on the **P.K table**, while the **detail data block** is based on the **F.K table**.
-

Master-Detail Form

Oracle Application Server Forms Services - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print

Address <http://orclvpc:8889/forms/frmservlet> Go Links »

Action Edit Query Block Record Field Help Window ORACLE

WINDOW1

Deptno Dname Loc

Employees Data

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno	Skills	Gender
7782	CLARK	MANAGER	7839	09-JUN-1981	2450		10		
7839	KING	PRESIDENT		17-NOV-1981	5000		10		
7934	MILLER	CLERK	7782	23-JAN-1982	1300		10		

Opening <http://orclvpc:8889/forms/lserverlet;jsessionid=c0a8834122b9b8e2edfcad6e423f84e498c84793fd5c> Local intranet

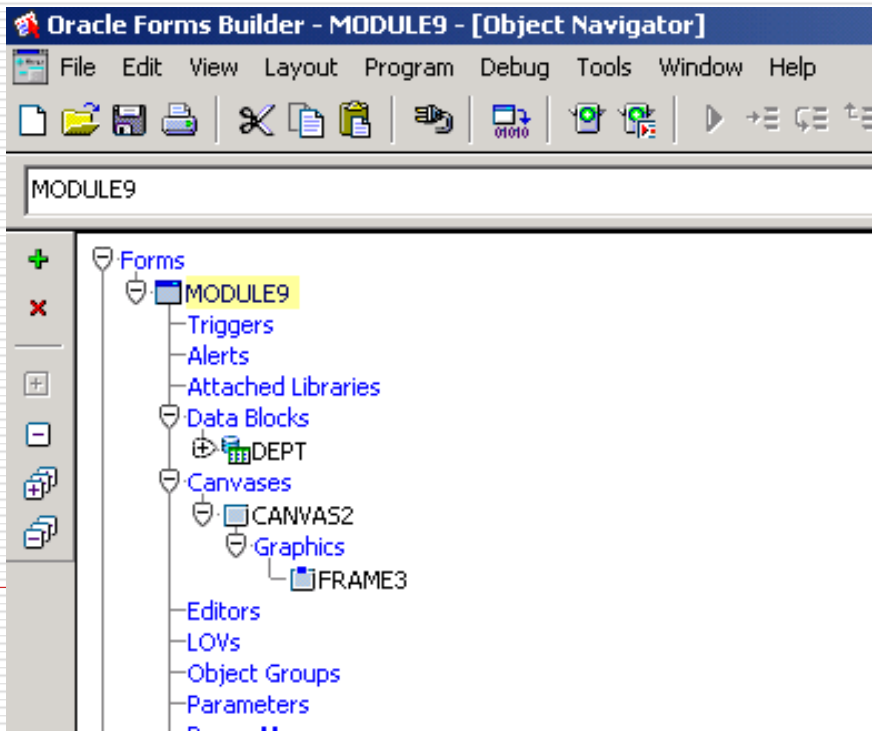
Start Start OC4J Instance Oracle Forms Builder - MO... Oracle Application Ser... EN 10:18 PM

Master-Detail Form

To create a Master-Detail form:

1. Create the master block, based on **DEPT** table.

Note: The master data block **must** exist in the form module **before** creating detail block.



Lab Practice: Data Blocks with relationships

2. Create the detail block called employees, based on **EMP** table.
 - Select the '**auto-join data blocks**' check box.
 - click **Create Relationship**.

Creating Relationship

The screenshot shows the Oracle Forms Builder interface with the Data Block Wizard open. The wizard is titled "Data Block Wizard" and contains the following elements:

- A text box with the text: "You may optionally create and delete master-detail relationships to other data blocks in your form."
- A button labeled "Create Relationship..." (marked with a red circle 2).
- A checked checkbox labeled "Auto-join data blocks".
- A button labeled "Delete Relationship".
- A list box titled "Master Data Blocks" which is currently empty.

The wizard is overlaid on a tree view of the form's objects. The "DEPT" data block is selected in the tree (marked with a red circle 1). A search dialog titled "9: Data Blocks" is also open, showing a search for "DEPT%". The search results list "DEPT" and "FK_DEPTNO" (marked with a red circle 3).

At the bottom of the wizard, there are navigation buttons: "< Back", "Next >", and "Finish".

DEPT

Mod: MODULE9 File: MODULE9



Start OC4J Instance

Oracle Forms Builder - ...

Creating Relationship (cont.)

Oracle Forms Builder - MODULE9 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

Find: _____

Data Block Wizard

You may optionally create and delete master-detail relationships to other data blocks in your form.

Create Relationship...

Auto-join data blocks

Delete Relationship

Master Data Blocks

DEPT

Detail Item: EMPNO

Master Item: (No Join)

Join Condition: EMP.DEPTNO = DEPT.DEPTNO

Cancel Help < Back Next > Finish

Forms

- MODULE9
 - Triggers
 - Alerts
 - Attached Libraries
 - Data Blocks
 - DEPT
 - Canvases
 - CANVAS2
 - Graphics
 - FRAME3
 - Editors
 - LOVs
 - Object Groups
 - Parameters
 - Popup Menus
 - Program Units
 - Property Classes
 - Record Groups
 - Reports
 - Visual Attributes
- Windows
 - Menus
 - PL/SQL Libraries
 - Object Libraries
 - Built-in Packages
 - Database Objects

Don't select anything from these combo boxes cause join condition is created automatically

Lab Practice: Data Blocks with relationships (cont.)

- Select the **same canvas** as the master data block.
 - Display **all** columns from EMP block.
 - Use **tabular layout**.
 - Display **four** records from EMP block.
 - Include a **scrollbar**.
 - Finish.
-

Data Blocks with relationships (cont.)

Oracle Forms Builder - MODULE9 - [Object Navigator]

File Edit View Layout Program Debug Tools Window Help

ON-CHECK-DELETE-MASTER

Layout Wizard

Select the canvas on which you wish to lay out the data block's items. If you are creating a new canvas, also be sure to select the appropriate canvas type.

Canvas: CANVAS2

Type: Content

If you select a tab canvas, then you also must select a tab page on which to lay out the data block's items.

Tab Page: (New Tab Page)

Cancel Help < Back Next > Finish

Mod: MODULE9 File: MODULE9

The Object Navigator tree on the left shows the following structure:

- Forms
 - MODULE9
 - Triggers
 - Alerts
 - Attached Libraries
 - Data Blocks
 - DEPT
 - Canvases
 - CANVAS2
 - Graphics
 - FRAME3
 - Editors
 - LOVs
 - Object Groups
 - Parameters
 - Popup Menus
 - Program Units
 - Property Classes
 - Record Groups
 - Reports
 - Visual Attributes
 - Windows
 - Menus
 - PL/SQL Libraries
 - Object Libraries
 - Built-in Packages
 - Database Objects

Layout Wizard

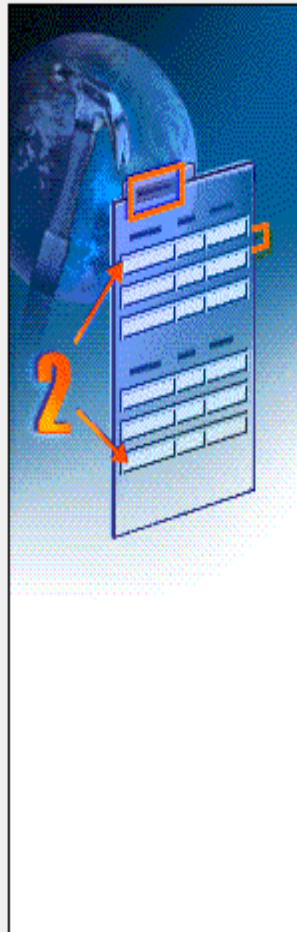


Select a layout style for

Form

Tabular

Layout Wizard



Enter a title for the frame. Also be sure to specify the number of database records to be displayed in the frame, as well as the distance between each record.

To display a scrollbar in the frame that can be used to scroll through database records, check the 'Display Scrollbar' check box.

Frame Title:

Records Displayed:

Distance Between Records:

Display Scrollbar

Cancel

Help

< Back

Next >

Finish

Lab Practice: Data Blocks with relationships (cont.)

- **Before running the form**, in the object navigator, **switch between the two data blocks** to let the dept data block is the top to let focus be on it **for correct execute query**.
 - A **relation object** is automatically created under the master data block; the relation is given the default name `MasterDataBlock_DetailDataBlock`.
-

Data Blocks with relationships (cont.)

You must switch two data blocks so that the focus is set on master block DEPT in run time.

The screenshot shows the Oracle Forms Builder interface for 'MODULE9'. The Object Navigator on the left displays a tree structure under 'Data Blocks'. The 'DEPT' block is expanded, showing its 'Relations' property, which is linked to 'DEPT_EMP'. Red arrows highlight this relationship. The Canvas Editor on the right shows the 'CANVAS2 (DEPT)' canvas. It contains a form with two input fields: 'Deptno' (containing 'DEPTN') and 'Dname' (containing 'DNAME'). Below these fields is a table with the following structure:

Empno	Ename	Job	Mgr	Hiredate
EMPNO	ENAME	JOB	MGR	HIREDATE
EMPNO	ENAME	JOB	MGR	HIREDATE
EMPNO	ENAME	JOB	MGR	HIREDATE
EMPNO	ENAME	JOB	MGR	HIREDATE

Lab Practice: Data Blocks with relationships (cont.)

- **Running a Master-Detail Form Module:**
 - **Querying** the master data block retrieves the corresponding detail records.
 - **Deleting** a master record is prevented if detail records exist.
 - **Inserting** a detail record automatically associates it with the displayed master record.
-

Thank You