Creating a Master-Detail Form:

The Master-Detail Relationship

A Master/Detail form is a form that has two blocks arranged in a master-detail relationship. The Master-Detail relationship is a relationship between entities shown as "One to Many" relationships in an Entity-Relationship diagram. A single Master record references one or more detail records in another table. A record in the detail table will relate to exactly one master record in the master table. A Department with many Employees is an example of this relationship.

Oracle Forms implements the master-detail relationship using two data blocks. The first block corresponds to the master table and the second block corresponds to the detail table. There major function in a Master-Detail form is to guarantees that the detail block will display only records that are associated with the current record in the master block.

Steps to Create a Master-Detail Form

In this section, a Master-detail form will be created to allow a user to query a given department in the company and then will display all of the employees in that company. We’ll add Employee data block to the Department form which was created in the previous example.

Notice that the DNO column in the EMPLOYEE table gets its values from the DNUMBER column in the DEPARTMENT table. In other words, to join the two tables in a query, one might specify a WHERE clause such that: EMPLOYEE.DNO = DEPARTMENT.DNUMBER.
1. In the Object Navigator window select Data Blocks and click “+” sign on the left toolbar.

2. Immediately, the window for the new Data Block will pop up. Select “Use the Data Block wizard” and click OK.
3. Select “table or view” as your data block type, and click Next.

4. Click on browse button and select Employee table, then all employee columns will appear under Available Columns list. Click on double right arrow to move all columns under data block items. Then click Next.
5. Remove the check sign from the check button beside “Auto join data block”. Then click on create relationship button.

6. Select “based on a join condition” as a relation type then click OK.
7. Select Department table as a related data block then click OK.

8. Select the name of the column in the Employee table under Detail item (FK name: DNO), and its name in the Department table under the Master item (PK name: DNUMBER). Check the join condition if it’s correct then click next.
9. Then follow the steps to customize the layout of the Employee frame. When you finish the Employee frame will be appear in your form.

10. Save the form then run it by clicking on “execute query” button in the upper toolbar.
The first department information will appear in the Department frame, and the first employee in this department will appear in the Employee frame.

To check all the department, put the cursor in any of the department fields then click on the blue single arrow (right or left).)

To check the entire employee under a specific department, after the specific department appear in the department frame put the cursor in any of the employee fields then click on the blue single arrow (right or left).}