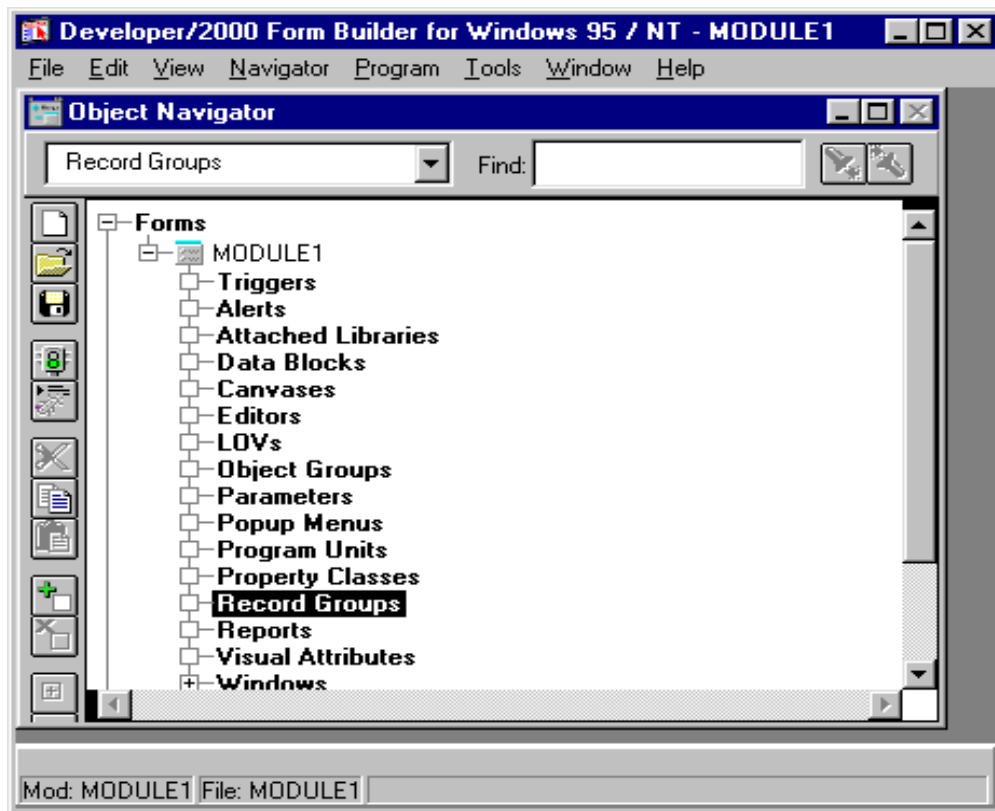


Creating Oracle Data Block Forms

Login procedure to system to create a Form

- **Using Form Builder (wizard) in Titan:**
In Windows95, select Oracle (e.g., Start→Program→Oracle) → Developer2000 R2.1 → **Form builder** (there are also Form compiler, Form runtime, etc.) → Build a new form manually (there are other options such as Use the Data Block Wizard, Open an existing form, etc. you can choose from) → OK → You will see the following window: → File → Connect → type your user_name/password.
- **Using Form Designer in other Oracle environment:**
Oracle for Window 95 → **Developer/2000** for Win95 → **Form Designer** → File → Connect → type your user_name/password



Form Designer Components and the object navigator

- **Object navigator:** form objects in **Ownership view** (by object types), **Visual view** (hierarchical view).
- **Form module** (or form) contains all of the form object types.
e.g., Form Module contains Windows; **Windows** contain Canvases; **Canvases** contain items (e.g., data fields, labels).
- **Layout editor** shows a visual view of the canvas items. Items are the GUI objects that users see and interact with on the canvas (e.g., check box, button, radio button, text item).
- **The property sheet, PL/SQL editor.**

Creating a Single-Table Data Block Form

Data blocks are created to display database table fields. When you create a data block, the system automatically generates the text fields and labels for data fields, create the code for inserting, modifying, deleting, and viewing data records.

(1) Creating a form designer file

Change to **Visual View** by clicking View → Visual View in the Form Window. You may need to change Visual View and Ownership view back and forth.

MODULE1 → type your form name (e.g., click slowly twice and type usually table name, CUSTOMER) → Save (clicking Save button or File → Save)

- ✓ The extension of the form designer file is **.fmb**, which is a form program file that needs to be compiled.

(2) Creating a canvas: WINDOW → type your window name (e.g., CUSTOMER_WINDOW) → Add a Canvas (by clicking + button or double clicking Canvases icon) → type your Canvas name (e.g., CUSTOMER_CANVAS) → Double-click the Canvas icon for Layout Editor

(3) Creating a New Data Block (general, items, layout, master/detail)

Follow the Data Block Wizard and Layout Wizard → Save

- ✓ You can open the form designer file anytime using Object navigator tool bar (open in file menu).

(4) Formatting, Deleting, Editing, Moving, and Aligning Groups of fields and labels

- Modifying item properties: Right-click the item → Change the properties
- Formatting the Canvas layout (basically click and drag)
- Deleting form objects (select an object and press Delete key)
- Creating Text Labels (click Text tool [T] and click label, and type it), Use format menu
- To rearrange and align the items: click and drag to position itmes → Arrange → align object → choose options: e.g., align to each other, horizontally align left, vertically distribute → Ok

If you are using **Form Designer** you may have to follow the following procedure:

Tools → New block → Select base table (better to put your user_name for the base table)
→ Item → Select column → choose items and item options → Layout → choose options
→ Ok → Save

Running the form

The executable form has extension **.fmx** (you may need to associate this with f45run32.exe or similar file depending on the Oracle version if you are using Windows95)

- To run the form, Click **run button** or press **Ctrl+R**
- Viewing table records: Enter Query → **F8** to execute it, you can use Wild card (%) to search records, or press F8 to view the records.

For searching/inserting/removing records, you will find appropriate **buttons** in the window or you can look at the **menu** as follow:

- Clearing the form fields: Record → Clear, or Action → Clear all for exit
- Inserting new records: Record → Insert
- To update a record: Execute a query → Save
- To delete a record: Execute a query → Record → Remove → Save
- To exit a form runtime: Close button (x) or Action and Exit

☞ Make sure you have the executable form file, **.fmx** in your directory.

Creating a Multiple-Table form (Master/Detail Block Form) using the Form Builder

Idea: create a Master block first (*one-side*), then create a Detail block (*many-side*), and link them (by joining, e.g., join-condition)

- (1) Create a Master form using the previous steps (e.g., the same steps for creating a single-table data block form). Note that it is recommended to create a **Form format** for the Master block instead of **Table format**.
- (2) **In the same Canvas**, create a Detail Data Block. The wizard will ask you whether you are creating a Master/Detail block form.

☞ *Note that if the table has no foreign key relationship between two files, DBMS may not automatically identify the Master/Detail relationship.*

- (3) Click create relationship: specify the Master block name and join condition
- (4) In Layout window, create a **Table format** for **Detail block** instead of Form, so that you can display many related records for each record in the Master block.
- (5) Format the new data block and Save.
- (6) Run the Master/Detail block forms and Test it.

Creating a Master/Detail Block Form using the Form Designer

- (1) Create a new form → open the Layout Editor (by double-clicking the canvas)
- (2) Create a Master Data Block: Tool → new block → items → ... → Layout → Ok
- (3) Creating a detail data block: Tool → ... → Layout → don't check the button palette box → Master/detail → specify the master/detail relationship (master block name and join condition) → Ok
- (4) Format the new data block and Save