



## Exercise Three

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3.1 Create a new module in Forms 11g.

3.2 Create a data block based on the SECTION\_DETAILS table, this is to be the new Master block, therefore it is recommended that the Block is created for one record only in Form layout with the following columns ...

- sd\_section\_number
- sd\_section\_name
- sd\_section\_type

Hint: The item labels or boilerplate can be amended either in the items Property Palette or by double clicking on the boilerplate itself in the Layout Editor.

Note that the frame property of Update Layout must be switched to 'Manually'.

Save the module as c:\course\ex3\_2

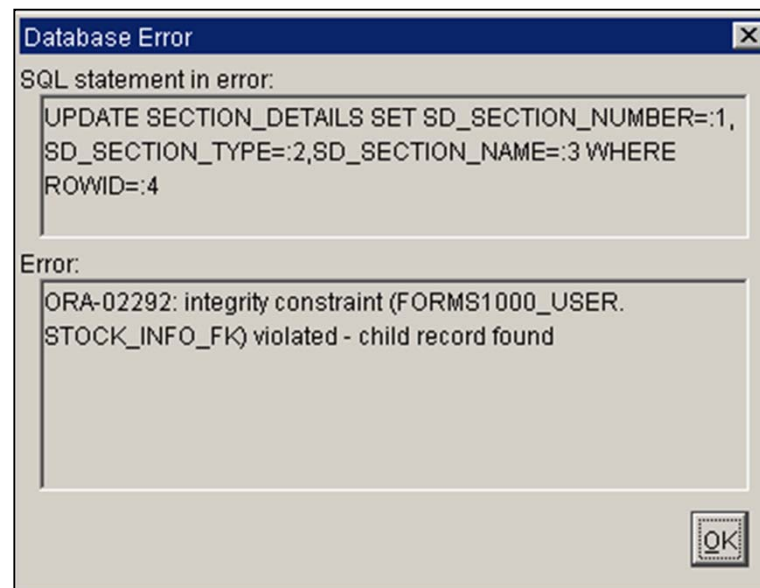
A screenshot of the Oracle Forms 11g Layout Editor. It shows a data block titled "Section Details" with a light grey background. Inside the block, there are three text input fields. The first field is labeled "Section Number" and contains the text "SD\_SECTION\_NUMBER". The second field is labeled "Section Type" and contains the text "SD\_SECTION\_TYPE". The third field is labeled "Section Name" and contains the text "SD\_SECTION\_NAME". The fields are arranged in two rows: the first two fields are on the top row, and the third field is on the bottom row.



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3.3 Run the Module and query records in the Form, change the Section Number in the record for BUILDING to 1000. Save the changes, note that an error message is displayed, go to the help – display error and this will inform you that the Primary Key has been compromised.

FRM-40509: ORACLE error: unable to UPDATE record.





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3.4 Return to Forms Builder and set the Property for this item to prevent Updates.  
Save as c:\course\ex3\_4

3.5 Run the module again and confirm that this change has been effective.

The screenshot shows the Oracle Forms Builder interface. The menu bar includes Action, Edit, Query, Block, Record, Field, Help, and Window. The toolbar contains various icons for file operations and navigation. The 'WINDOW1' title bar is visible. The 'Section Details' dialog box is open, showing the following fields:

- Section Number: 2
- Section Type: HARDWARE
- Section Name: BATHROOM FITTINGS

The status bar at the bottom of the window displays the error message: 'FRM-40200: Field is protected against update.' and 'Record: 2/?'.

3.6 Perform an enter-query, observe that the Section Name can be entered in query mode, change the Property for this item to prevent this occurring, then test the change.

3.7 Return to the Forms Builder, change the Property back to allow querying.  
Save this module as EX3\_7



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3.8 Create a new data block based on the STOCK\_INFORMATION table which is to be a detail block to the section details master block created earlier.

Include the following items

- si\_stock\_number
- si\_section\_number
- si\_stock\_description
- si\_unit\_price
- si\_no\_in\_stock.

Make sure the items in the block are on the same canvas as used by section details.

Include all items in the layout, other than si\_section\_number.

Save the module as c:\course\ex3\_8

The Canvas should be as follows ...

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Section Number  Section Type

Section Name

Stock Number	Stock Description	Unit Price	No In Stock
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK
SI_STOCK_M	SI_STOCK_DESCRIPTION	SI_UNIT_PRICE	SI_NO_IN_STOCK

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## 3.9 Run the Form ...

Stock Number	Stock Description	Unit Price	No In Stock
1	BRASS HANDLE	12.99	100
9	YALE LOCK	9.99	15
10	BRASS KNOCKER	15.99	10
25	HINGE PACK (LH)	6.99	10
26	HINGE PACK (RH)	6.99	0

Record: 1/?



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3.10 Note that when the module is run the cursor may appear in the Detail block, this is because it is sequentially higher than the Master block, drag it below the Master block in the Object Navigator.

3.11 Re-run the module and check that this action has been effective.

3.12 Go to the Relations object of the Section Details block and delete the existing Relation. Note that removing the Relation will also delete all associated triggers and Program Units.

3.13 Manually create a new relation for the blocks.

Hint: The SD\_SECTION\_NUMBER is the foreign key for SI\_SECTION\_NUMBER

3.14 Re-run the module and check that this action has been effective.

Save the form as c:\course\EX3\_14