

Oracle Academy

Amazing Books

Part 3: Creating Input Forms

In this section, you will use the Application Builder in Application Express to:

- Create input forms
- Create report regions on a page

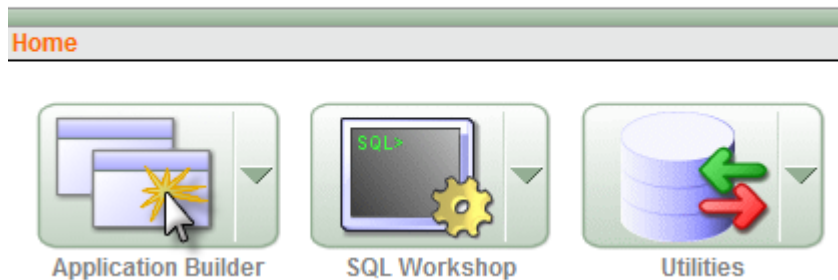
Steps 1 through 8 provide instructions and graphics to demonstrate how to create the form and report region for the **Customers** page.

Steps 9 through 11 provide instructions to create the form and report region for the **Publishers**, **Item_Types**, and **Subjects** pages.

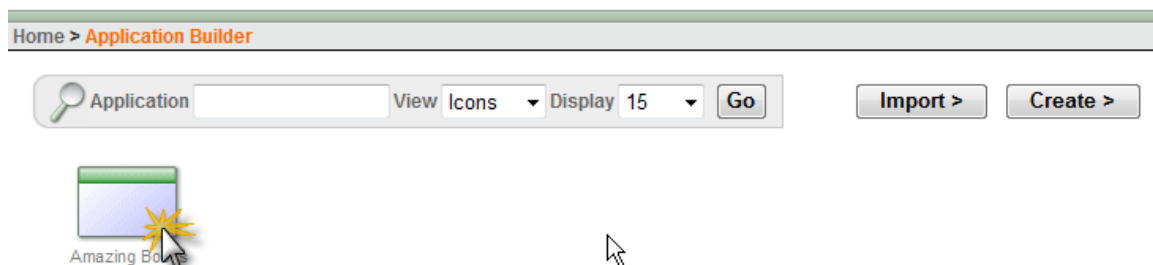
Step 1 : Return to the Amazing Books application screen

Return to the Amazing Books application by clicking on the Application Builder icon then the Amazing Books icon in the main workspace.

ORACLE® Application Express



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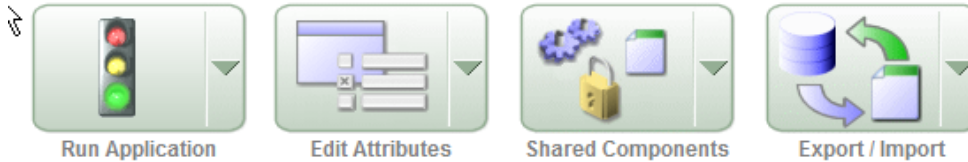


Step 2: Creating a new Page

ORACLE® Application Express

Home > Application Builder > Application 787

Application: 787 - Amazing Books



Page View **Icons** Display 15



Click **Create Page** to create a new page.

Step 3: Creating a Page with a Form Component

Choose **Form** and click **Next**.

Create Page

Cancel < Previous Next >

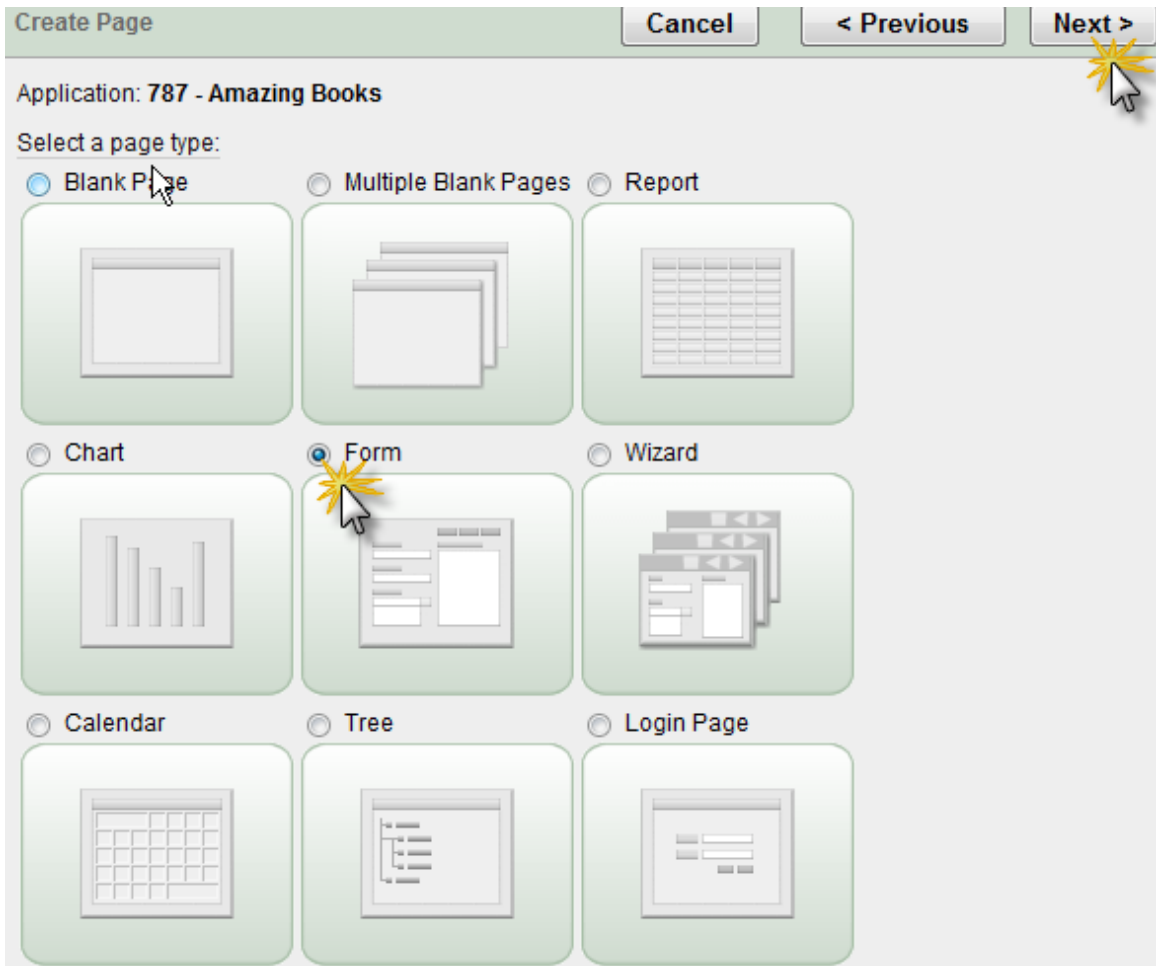
Application: 787 - Amazing Books

Select a page type:

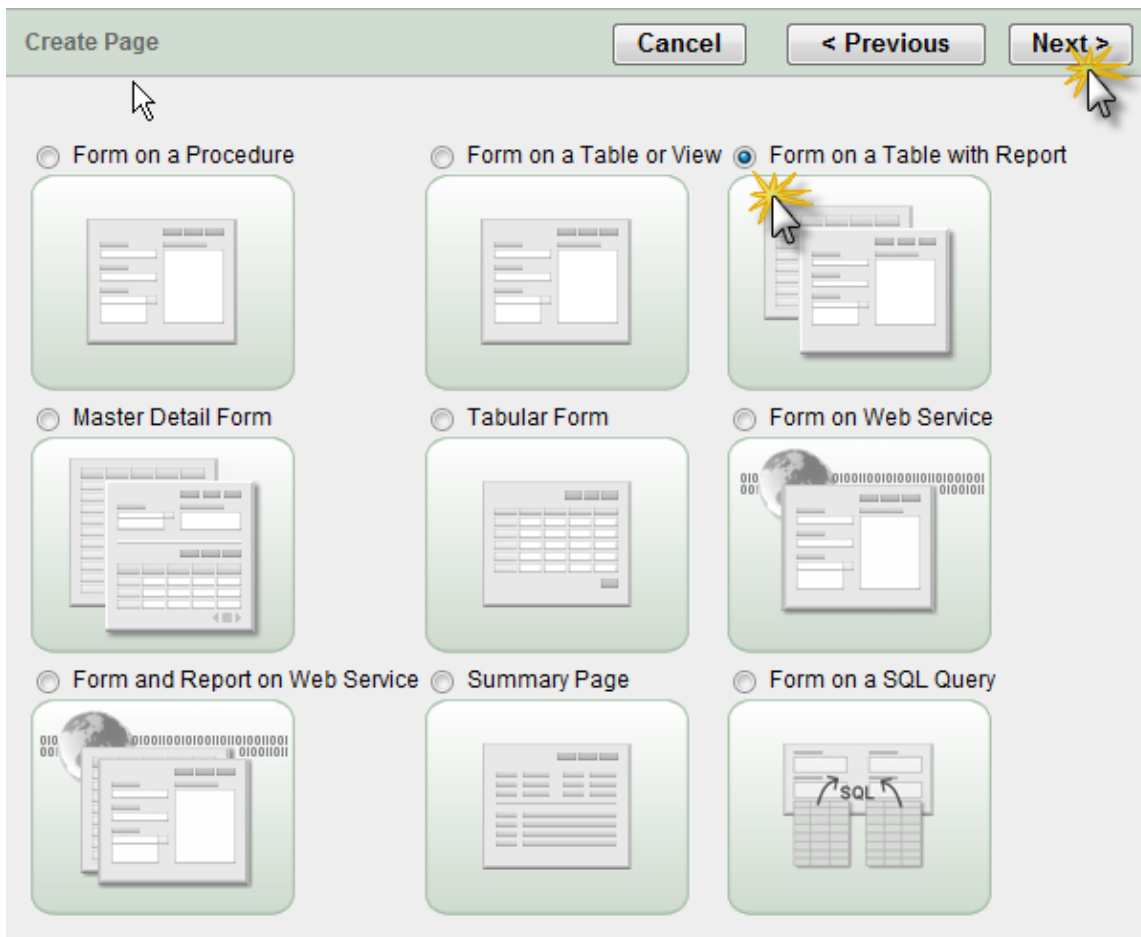
☒ Blank Page ☐ Multiple Blank Pages ☐ Report

☐ Chart ☒ Form ☐ Wizard

☐ Calendar ☐ Tree ☐ Login Page

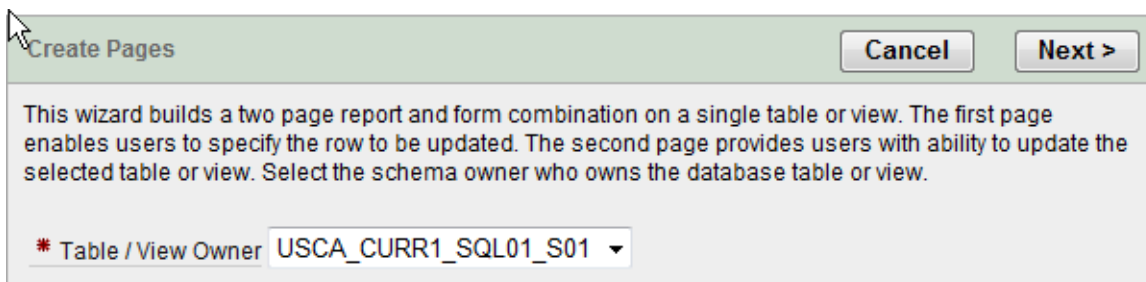


Select the **Form on a Table** with Report radio button and click **Next**.



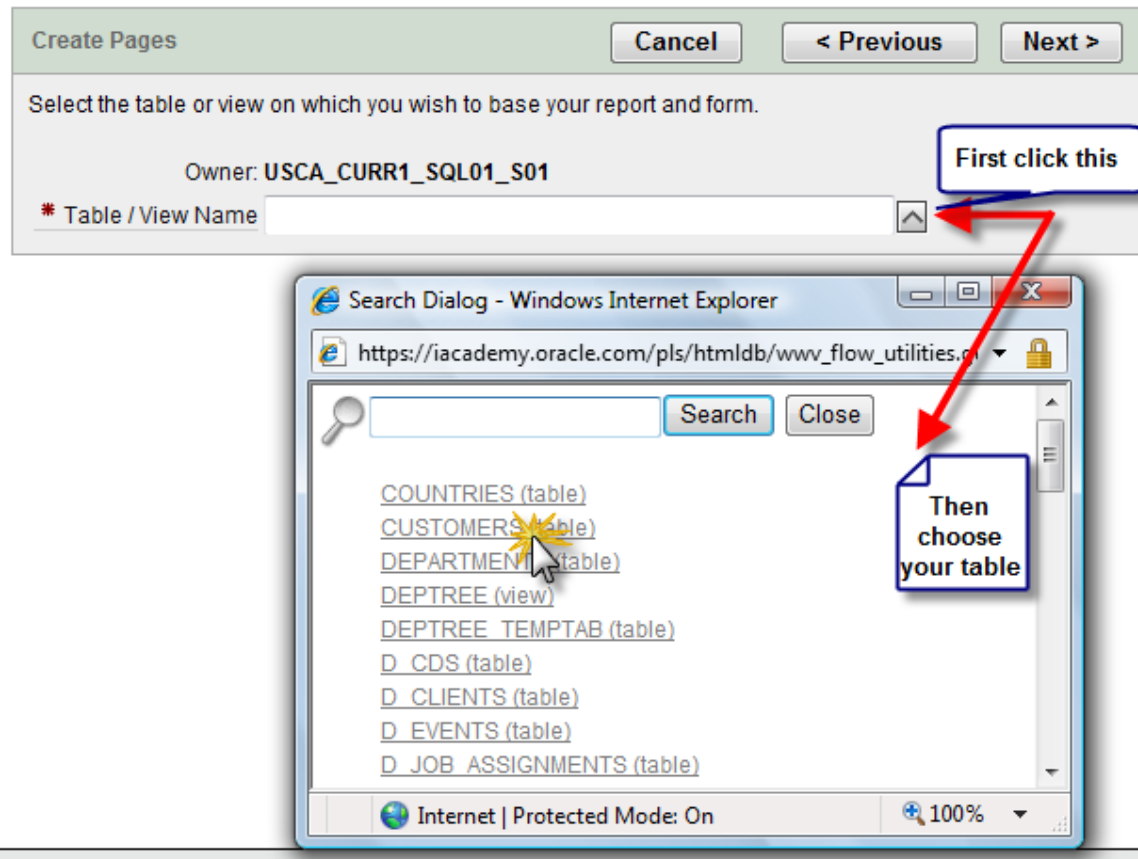
Step 4: Assigning Tables to your Form/Report

Confirm the **Table/View Owner** is your name/schema.



Select **Next** to continue.

Select the table on which you wish to base your **Form** and **Report** by clicking on the **field arrow** next to the **Table / View Name** textbox.



Select **CUSTOMERS** from the popup list or type with word CUSTOMERS in the textbox.

Click **Next** to continue.

Step 5: Naming your Report

Name the report "**Customers Report**"

Create Report Page Cancel < Previous Next >

The report page is used to select the rows to be edited. It also includes a button to create a new row. If the page you specify does not exist, the page will be created.

Owner: USCA_CURR1_SQL01_S01
Table Name: CUSTOMERS

Use User Interface Defaults ☒ Yes ☐ No

* Page Number 18

* Page Name Report on CUSTOMERS

* Region Title Customers Report Name the Report

* Region Template Reports Region

Report Template template: 1. Standard

Pagination Size 15

Breadcrumb - do not add breadcrumb region to page -

Select **Next** to continue.

Check the '**Do not use tabs**' radio button and click **Next** to continue.

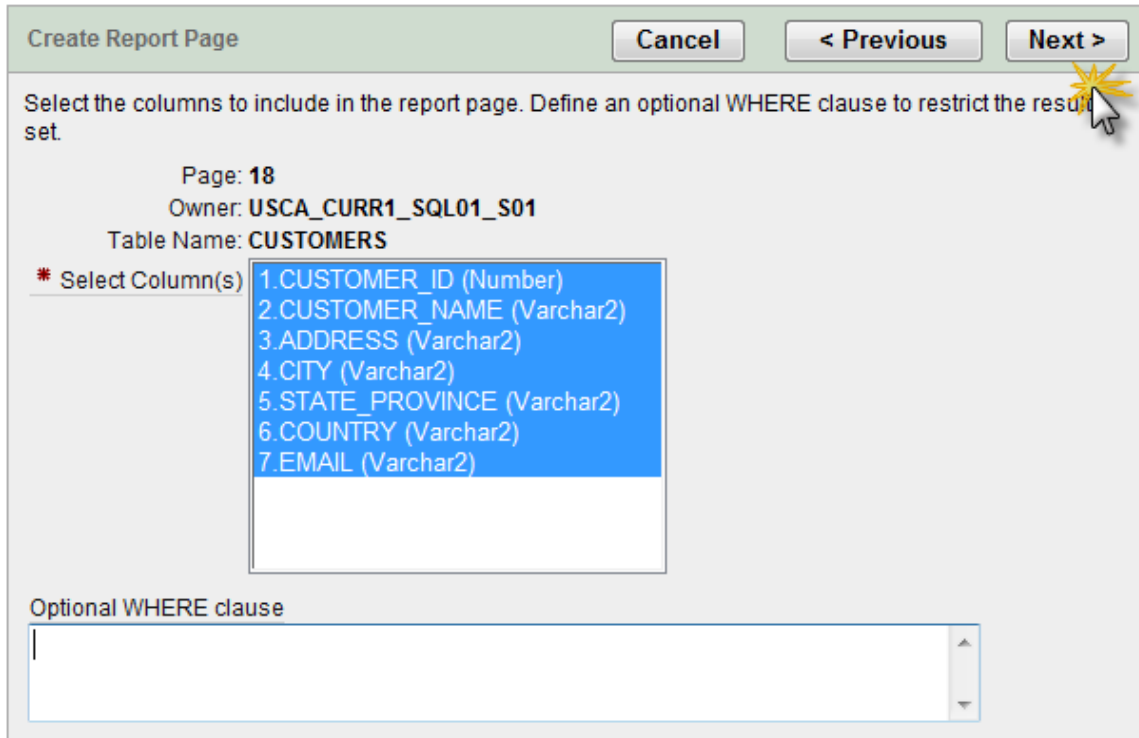
Create Report Page Cancel < Previous Next >

Page: 18

Tab Options: ☒ Do not use tabs
☐ Use an existing tab set and create a new tab within the existing tab set.
☐ Use an existing tab set and reuse an existing tab within that tab set.

Step 6: Identifying Columns for your Report

Identify columns for the report. By default, all columns should be highlighted. If they are not, select the first column, hold down the **shift** key, and arrow down to select all the columns.



Create Report Page

Cancel < Previous Next >

Select the columns to include in the report page. Define an optional WHERE clause to restrict the result set.

Page: 18
Owner: USCA_CURR1_SQL01_S01
Table Name: CUSTOMERS

* Select Column(s)

- 1.CUSTOMER_ID (Number)
- 2.CUSTOMER_NAME (Varchar2)
- 3.ADDRESS (Varchar2)
- 4.CITY (Varchar2)
- 5.STATE_PROVINCE (Varchar2)
- 6.COUNTRY (Varchar2)
- 7.EMAIL (Varchar2)

Optional WHERE clause

|

Click **Next** to continue.

Step 7: Confirming Properties and Titles of your Report

Choose any image you prefer:




Create Report Page

Cancel < Previous Next >

Select an edit link image. This image will function as a link for choosing a row to edit. Use image attributes to define the image height and width. Defining the height and width helps browsers display pages faster.

Report Page: 18
Owner: USCA_CURR1_SQL01_S01
Table Name: CUSTOMERS

Edit Link Image:

☒ 
☐ 
☐ 
☐ Edit
☐ Other Image

Use Other Image

Image Attributes

Click **Next** to continue.

Make sure the “Page Name” and “Region Title” are correct.

Create Form Page

Cancel < Previous Next >

Specify page and region information for the Form Page. The Form Page is used to insert, update, and delete rows from the selected table. If the page you specify does not exist, the page will be created.

Owner: USCA_CURR1_SQL01_S01
Table Name: CUSTOMERS

* Page Number 19

* Page Name Form on CUSTOMERS

* Region Title Customers Report

* Region Template Form Region

Click **Next** to continue.

Click the '**Do no use tabs**' radio button and click **Next** to continue.

Create Form Page

Page: 19

Tab Options:

- ☒ Do not use tabs
- ☐ Use an existing tab set and create a new tab within the existing tab set.
- ☐ Use an existing tab set and reuse an existing tab within that tab set.

Cancel < Previous Next >

Confirm that the **Primary Key** drop-down list box shows CUSTOMER_ID.

Create Form Page

Page: 19

Owner: USCA_CURR1_SQL01_S01

Table Name: CUSTOMERS

* Primary Key CUSTOMER_ID

Primary Key Column 2 - Select Primary Key 2 -

Cancel < Previous Next >

Primary Key value

Click **Next** to continue.

Step 8: Creating a Trigger

Choose the **Existing Trigger** option:

Create Form Page Cancel < Previous Next >

Form Page: 19
 Owner: USCA_CURR1_SQL01_S01
 Table Name: CUSTOMERS
 Primary Key Column: CUSTOMER_ID

* Define the source for the primary key columns

☒ Existing trigger ☐ Custom PL/SQL function ☐ Existing sequence

Click **Next** to continue.

Verify all the column names are highlighted in blue.

Create Form Page Cancel < Previous Next >

Select the columns to include in the form page.

Page: 19
 Owner: USCA_CURR1_SQL01_S01
 Table Name: CUSTOMERS

* Select Column(s)

CUSTOMER_NAME (Varchar2)
ADDRESS (Varchar2)
CITY (Varchar2)
STATE_PROVINCE (Varchar2)
COUNTRY (Varchar2)
EMAIL (Varchar2)

Highlight all columns

Click **Next** to continue.


Accept the defaults in the **Identify Process Options** window.

Form Page: 19
Owner: USCA_CURR1_SQL01_S01
Table Name: CUSTOMERS
Insert Yes ▾
Update Yes ▾
Delete Yes ▾

Click **Next** to continue.

Congratulations! You have successfully completed the creation of a Form and Report on the CUSTOMERS table.

Query and Update Page Confirmation
Cancel
< Previous
Finish



You have requested to create a query and update report page with the following attributes. Please confirm your selections.

Application	787
Report Page	18
Report Page Name	Report on CUSTOMERS
Report Page Tab Set	TS1
Report Page Tab Label	
Form Page	19
Form Page Name	Form on CUSTOMERS
Form Page Tab Set	
Form Page Tab Label	
Table / View Owner	USCA_CURR1_SQL01_S01
Table / View Name	CUSTOMERS
Primary Key Column	CUSTOMER_ID
Updateable Columns	CUSTOMER_NAME ADDRESS CITY STATE_PROVINCE COUNTRY EMAIL
Report Columns	CUSTOMER_ID CUSTOMER_NAME ADDRESS CITY STATE_PROVINCE COUNTRY EMAIL
Where Clause	
Process Options	Insert,Update,Delete

Select **FINISH** to create your report and form for the CUSTOMERS table.

Return to the AMAZING_BOOKS application main page

Step 9 : Creating Input Forms and Reports for the Publishers, Item_Types, and Subjects pages.

Use the **Wizard to Create Input Forms and Reports for the Publishers, Item_Types, and Subjects pages.**

Publishers page

1. Click on the **Create Page** button. Do not select the Run Page icon at this time
2. Choose the **Form** option by clicking the radio button beside of it. Select Next to continue.
3. Choose **Form on Table with Report** by clicking the radio button adjacent to that option. Select NEXT to continue.
4. Confirm the Table/View Owner is your name/schema. Select Next to continue.
5. Select the table on which you wish to base your Form and Report by clicking on the field arrow next to the Table / View Name textbox.
6. Select PUBLISHERS from the popup list or type with word PUBLISHERS in the textbox. Select Next to continue.
7. Select the field arrow next to the Page textbox.
8. From the popup list, select Publishers by clicking on the word Publishers. This step tells the wizard which page in your application will receive the report.
9. Name the report "Publishers Report"
10. Select the 'Do not use tabs' radio button.
11. Identify columns for the report. By default, all columns should be highlighted. If they are not, select the first column, hold down the shift key, and arrow down to select all the columns. Select Next to continue.
12. Choose any image you prefer for the "edit" button. Select Next to continue.
13. Make sure the "Page Name" and "Region Title" are correct.
14. Select the field arrow next to the Page textbox. From the popup list, select Publishers by clicking on the word Publishers. This step tells the wizard which page in your application will receive the form.
15. Make sure the "Page Name" and "Region Title" are correct. Select Next to continue.
16. Select the 'Do not use tabs' radio button.
17. Confirm that the Primary Key drop-down list box shows PUBLISHER_ID. Select Next to continue.
18. Choose the Existing Trigger option. Select Next to continue.
19. Verify all the column names are highlighted in blue. Select Next to continue.
20. Accept the defaults in the Identify Process Options window. Select Next to continue.

21. You should get confirmation.
22. Select FINISH to create your report and form for the PUBLISHERS table.
23. Return to the AMAZING_BOOKS application main page

Item Types page

1. Click on the **Create Page** button. Do not select the Run Page icon at this time
2. Choose the **Form** option by clicking the radio button beside of it. Select Next to continue.
3. Choose **Form on Table with Report** by clicking the radio button adjacent to that option. Select NEXT to continue.
4. Confirm the Table/View Owner is your name/schema. Select Next to continue.
5. Select the table on which you wish to base your Form and Report by clicking on the field arrow next to the Table / View Name textbox.
6. Select Item_types from the popup list or type with word Item_types in the textbox. Select Next to continue.
7. Select the field arrow next to the Page textbox.
8. From the popup list, select Item_types by clicking on the word Item_types. This step tells the wizard which page in your application will receive the report.
9. Name the report "Item_types Report"
10. Select the 'Do not use tabs' radio button.
11. Identify columns for the report. By default, all columns should be highlighted. If they are not, select the first column, hold down the shift key, and arrow down to select all the columns. Select Next to continue.
12. Choose any image you prefer for the "edit" button. Select Next to continue.
13. Make sure the "Page Name" and "Region Title" are correct.
14. Select the field arrow next to the Page textbox. From the popup list, select Item_types by clicking on the word Item_types. This step tells the wizard which page in your application will receive the form.
15. Make sure the "Page Name" and "Region Title" are correct. Select Next to continue.
16. Select the 'Do not use tabs' radio button.
17. Confirm that the Primary Key drop-down list box shows ITEM_TYPES_ID. Select Next to continue.
18. Choose the Existing Trigger option. Select Next to continue.
19. Verify all the column names are highlighted in blue. Select Next to continue.
20. Accept the defaults in the Identify Process Options window. Select Next to continue.

21. You should get confirmation.
22. Select FINISH to create your report and form for the Item_types table.
23. Return to the AMAZING_BOOKS application main page

Subjects page

1. Click on the **Create Page** button. Do not select the Run Page icon at this time
2. Choose the **Form** option by clicking the radio button beside of it. Select Next to continue.
3. Choose **Form on Table with Report** by clicking the radio button adjacent to that option. Select NEXT to continue.
4. Confirm the Table/View Owner is your name/schema. Select Next to continue.
5. Select the table on which you wish to base your Form and Report by clicking on the field arrow next to the Table / View Name textbox.
6. Select Subjects from the popup list or type with word Subjects in the textbox. Select Next to continue.
7. Select the field arrow next to the Page textbox.
8. From the popup list, select Subjects by clicking on the word Subjects. This step tells the wizard which page in your application will receive the report.
9. Name the report "Subjects Report"
10. Select the 'Do not use tabs' radio button.
11. Identify columns for the report. By default, all columns should be highlighted. If they are not, select the first column, hold down the shift key, and arrow down to select all the columns. Select Next to continue.
12. Choose any image you prefer for the "edit" button. Select Next to continue.
13. Make sure the "Page Name" and "Region Title" are correct.
14. Select the field arrow next to the Page textbox. From the popup list, select Subjects by clicking on the word Subjects. This step tells the wizard which page in your application will receive the form.
15. Make sure the "Page Name" and "Region Title" are correct. Select Next to continue.
16. Select the 'Do not use tabs' radio button.
17. Confirm that the Primary Key drop-down list box shows SUBJECT_ID. Select Next to continue.
18. Choose the Existing Trigger option. Select Next to continue.

19. Verify all the column names are highlighted in blue. Select Next to continue.
20. Accept the defaults in the Identify Process Options window. Select Next to continue.
21. You should get confirmation.
22. Select FINISH to create your report and form for the Subjects table.
23. Return to the AMAZING_BOOKS application main page

Do not create forms or reports for the Items or Orders pages at this time.

Step 10: Checking your work

The pages that you created contain an Input Form and a Report region. The Input Form is used to enter new data into your Amazing Books database. The Report region displays the current contents of the table(s).

Below is an example of the Customers Page.

To see your Input Forms, click on the Application Builder tab.



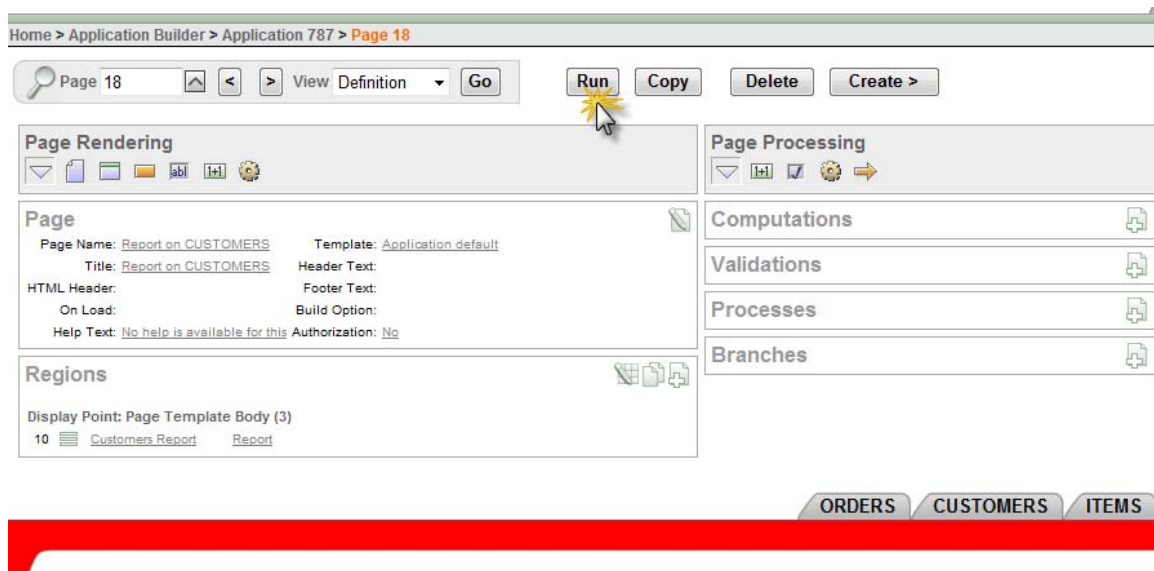
Now, click on the 'Amazing Books' application icon.



You will see the Report and Form that you created on the CUSTOMERS table. Click on the 'Report on CUSTOMERS' icon.



You now see the Page Definition for this particular report. Click on 'Run' to run your Customer report.



The Report region is blank at this time because you have not yet added any customers to the table. But, when you do add customers, the Input Form is ready for you to use, and the Report region will give the details based on the columns that you selected in the previous steps.

Note: you can choose between tables using the tabs at the top of the window.



When you are instructed to do so, you will click on the '**Create**' button to add customers to your table. Part 4 is the next step in adding customers.



Step 11: Go to Part 4.