

# Oracle Academy

## Amazing Books

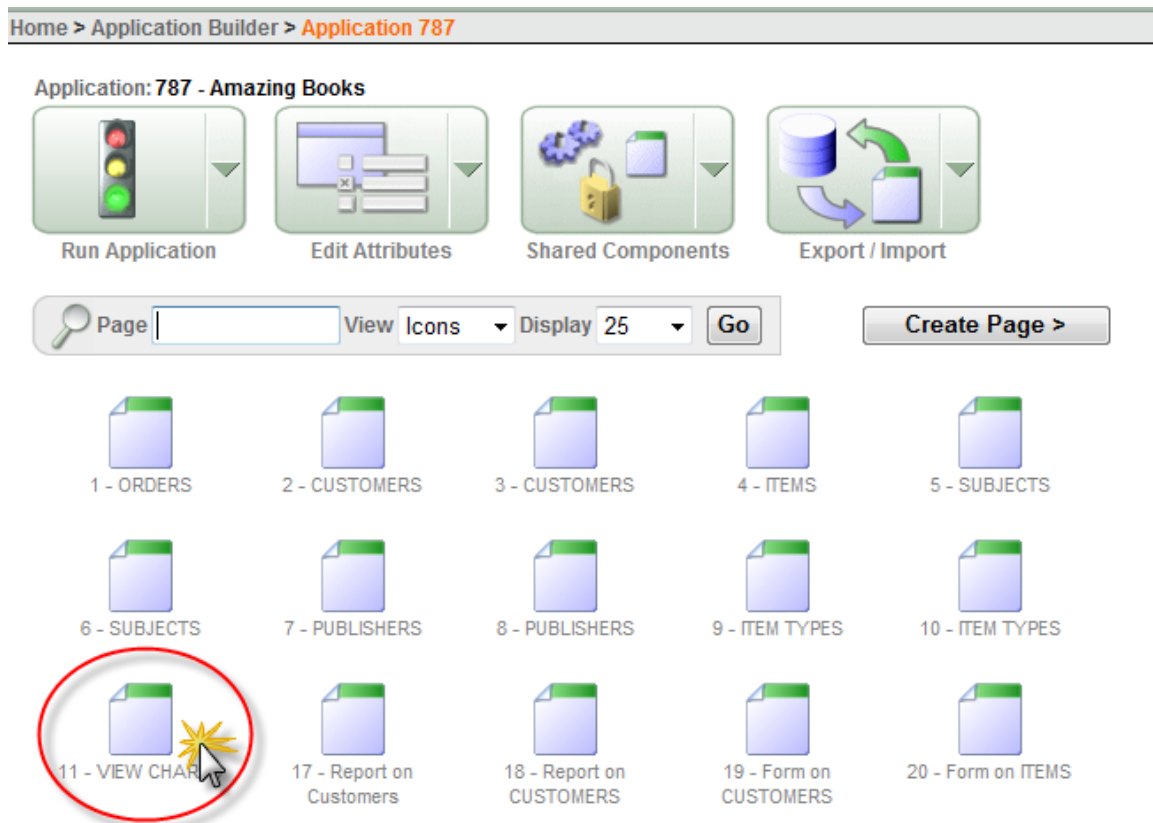
### Part 8: Creating Charts

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

- Create Charts

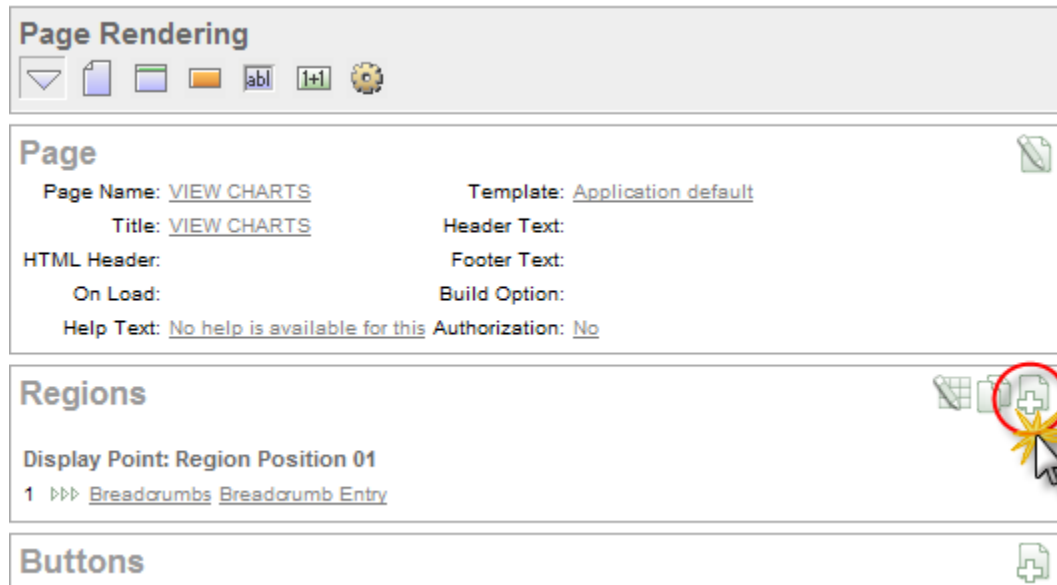
#### *Step 1: Accessing View Charts*

From the Application Builder **Home** page, locate the **page list** and select the **View Charts** hyperlink.



## Step 2: Creating a Region

Under the **Page Rendering** column, in the **Regions** section, select the **Create** icon. (Looks like a piece of paper with a plus sign).



**Page Rendering**

Page

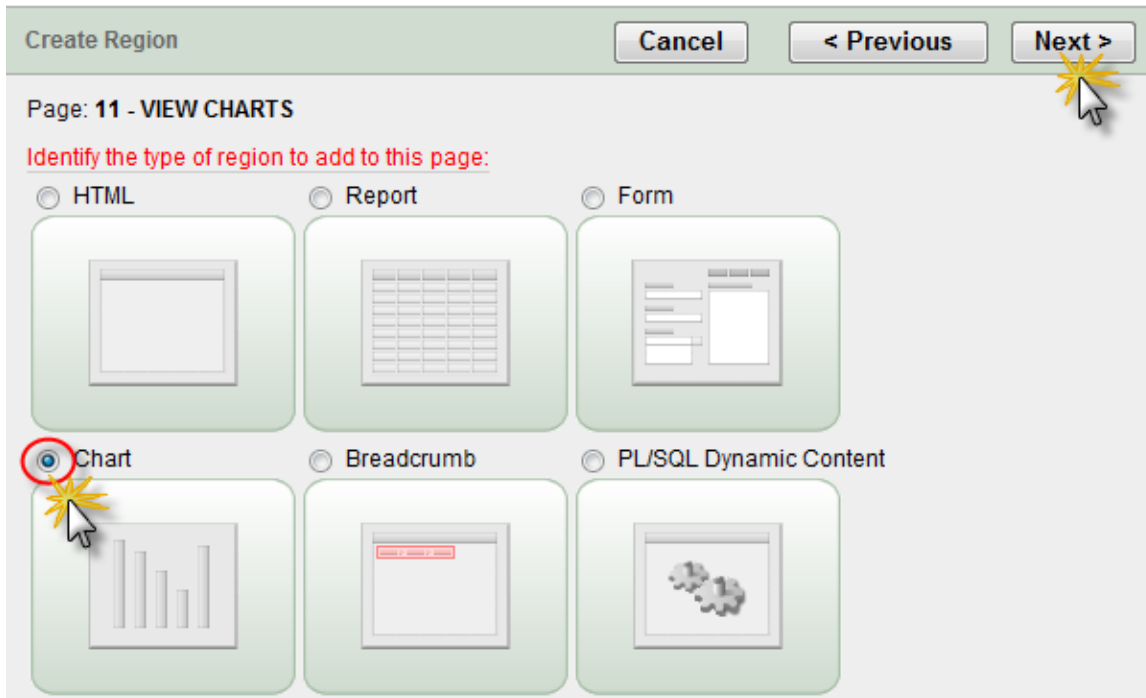
Page Name: [VIEW CHARTS](#) Template: [Application default](#)  
Title: [VIEW CHARTS](#) Header Text:  
HTML Header: Footer Text:  
On Load: Build Option:  
Help Text: [No help is available for this](#) Authorization: [No](#)

**Regions**

Display Point: Region Position 01  
1 >>> [Breadcrumbs](#) [Breadcrumb Entry](#)

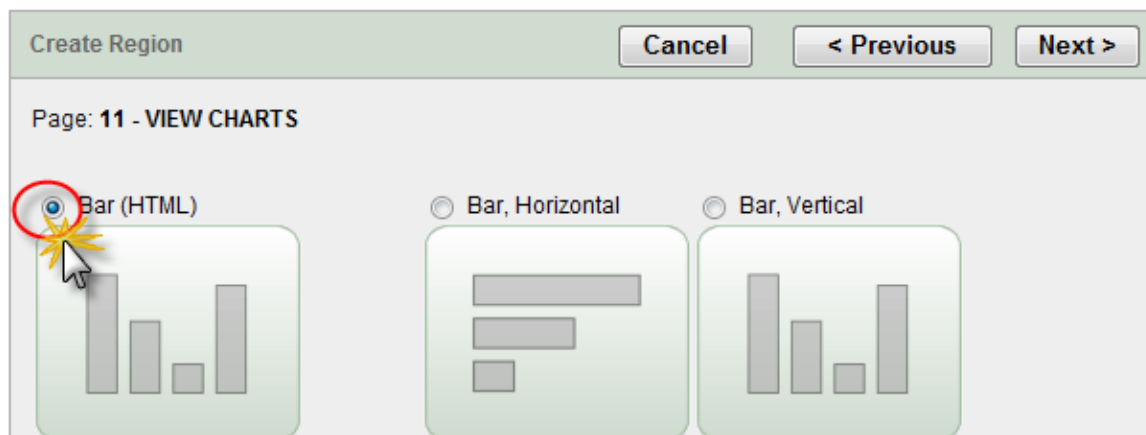
**Buttons**

In the **Identify Region Type** window, select the radio button next to **Chart**.



Select **Next** to continue.

In the **Create Region** window, select the radio button next to **Bar (HTML)**.



Select **Next** to continue.

### Step 3: Displaying Attributes

Under the **Identify Region Attributes** window, in the **Title** textbox, enter: Retail Sales by Subject.

The screenshot shows the 'Create Region' dialog box with the following fields and values:

- Title:** Retail Sales by Subject (highlighted in yellow)
- Region Template:** Chart Region
- Display Point:** Page Template Body (3. items above region content)
- Sequence:** 11
- Column:** 1

Buttons at the top: Cancel, < Previous, Next >

Page: 11 - VIEW CHARTS  
Region Source Type: Chart (simple HTML chart)

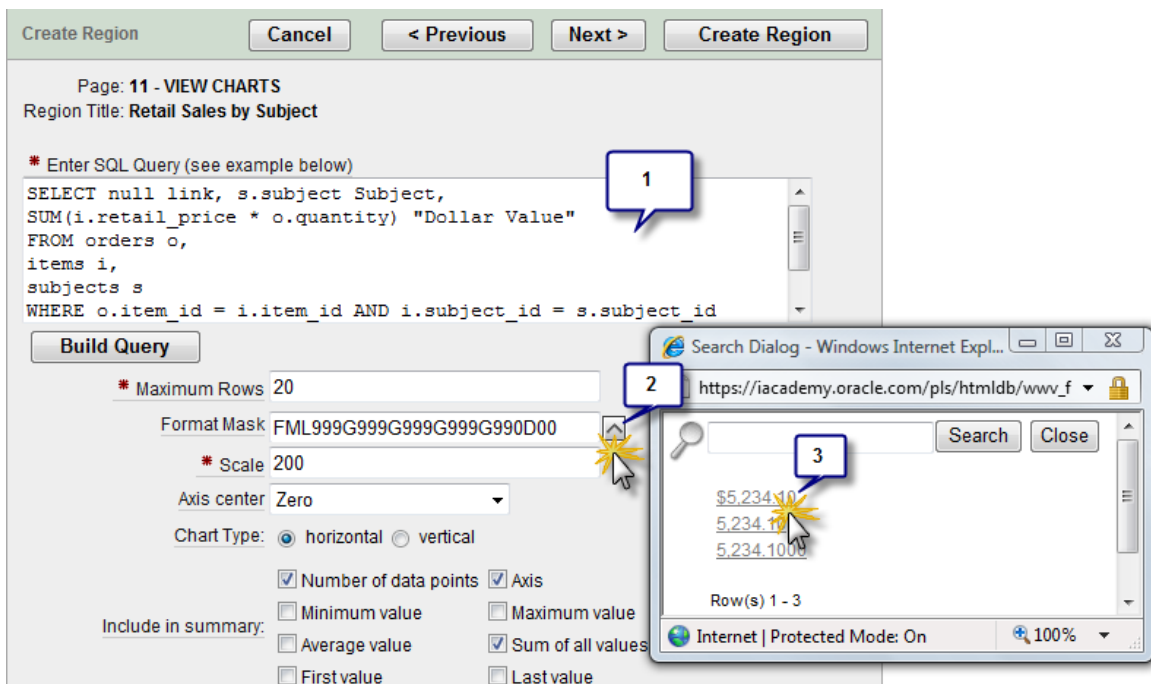
Select **Next** to continue.

## Step 4: Creating the Source for Charts

In the **Enter SQL Query** text window, enter the following code:

```
SELECT null link, s.subject Subject,  
SUM(i.retail_price * o.quantity) "Dollar Value"  
FROM orders o,  
items i,  
subjects s  
WHERE o.item_id = i.item_id AND i.subject_id = s.subject_id  
GROUP BY null, s.subject
```

1. Click the field arrow
2. Choose the format you want



(The "Dollar" statement is appropriate for some countries. Other values, such as Pounds or Yen may be more appropriate depending upon where Amazing Books is located.)

Select **Create Region** to continue.



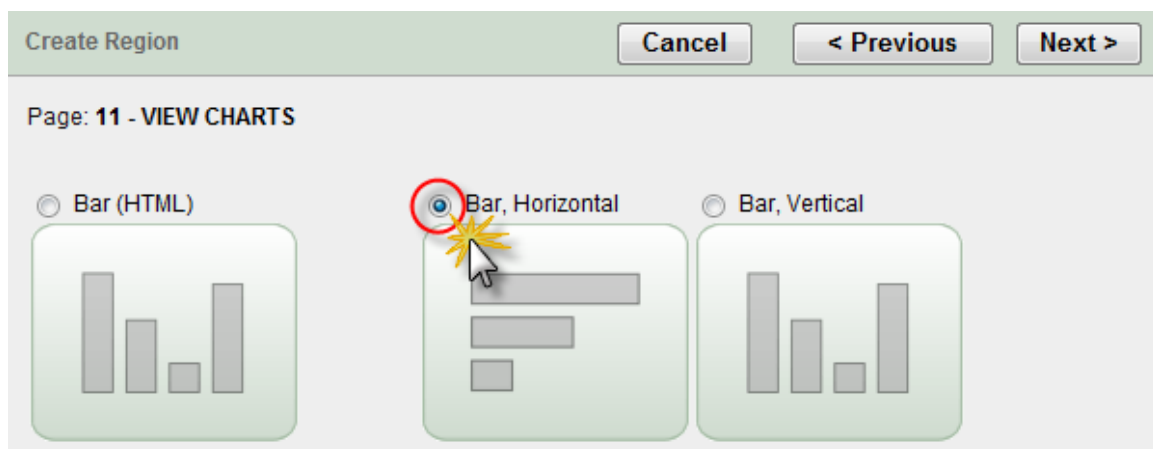
Reports are easy to build using the examples shown:

- **null link** must appear in the SELECT and the GROUP BY clause as shown
- i.title (alias Title) represents the y-axis
- SUM(statement) (alias Dollar Value) represents the x-axis
- WHERE is a join between the ORDERS and ITEMS tables
- GROUP BY (the y-axis)

### ***Step 5: Creating a Second Chart***

Return to **Step 2** above to create the second chart.

At **Step 2**, select the Bar, Horizontal Chart Type radio box.



At **Step 3**, enter “**Profit by Title**” in the **Title** textbox.

The screenshot shows the 'Create Region' dialog box in Oracle APEX. The title bar reads 'Create Region'. On the right, there are three buttons: 'Cancel', '< Previous', and 'Next >'. The main content area has a header 'Page: 11 - VIEW CHARTS'. Below this, it shows 'Region Source Type: Chart (SVG)' and 'Chart Type: Bar, Horizontal'. The 'Title' field is highlighted in yellow and contains the text 'Profit by Title'. Below the title field is a 'Region Template' dropdown menu set to 'Chart Region'. Underneath is a 'Display Point' dropdown menu set to 'Page Template Body (3. items above region content)', with a small icon to its right. Below the 'Display Point' dropdown, there are four links: '[Body]', '[Pos.1]', '[Pos.2]', '[Pos.3]', and '[Pos.4]'. At the bottom, there are two fields: 'Sequence' with the value '21' and 'Column' with the value '1'.

Create Region

Cancel < Previous Next >

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Region Source Type: Chart (SVG)

Chart Type: Bar, Horizontal

\* Title Profit by Title

Region Template Chart Region

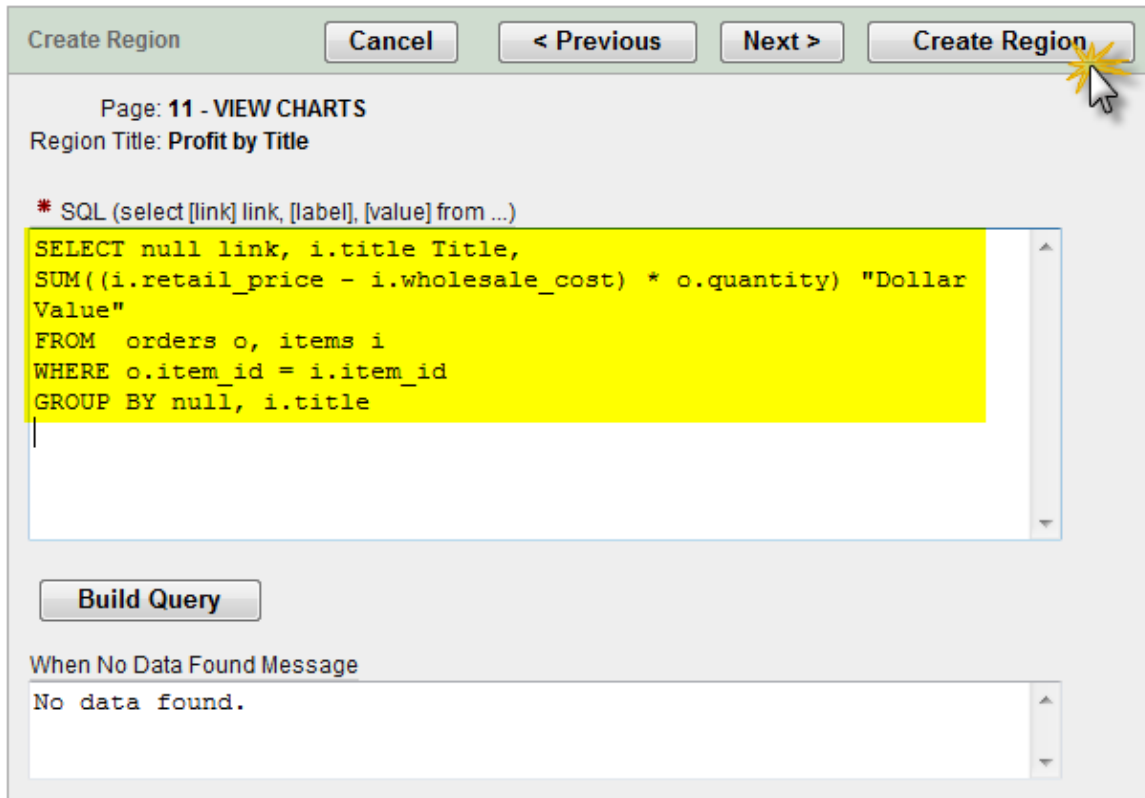
Display Point Page Template Body (3. items above region content)

[Body] [Pos.1] [Pos.2] [Pos.3] [Pos.4]

\* Sequence 21 Column 1

At **Step 4**, enter the following SQL Statement:

```
SELECT null link, i.title Title,  
SUM((i.retail_price - i.wholesale_cost) * o.quantity) "Dollar Value"  
FROM orders o, items i  
WHERE o.item_id = i.item_id  
GROUP BY null, i.title
```



Create Region

Cancel < Previous Next > Create Region

Page: 11 - VIEW CHARTS  
Region Title: Profit by Title

\* SQL (select [link] link, [label], [value] from ...)

```
SELECT null link, i.title Title,  
SUM((i.retail_price - i.wholesale_cost) * o.quantity) "Dollar  
Value"  
FROM orders o, items i  
WHERE o.item_id = i.item_id  
GROUP BY null, i.title
```

Build Query

When No Data Found Message  
No data found.

Select **Create Region** to continue.

Congratulations! You have successfully created the second chart.