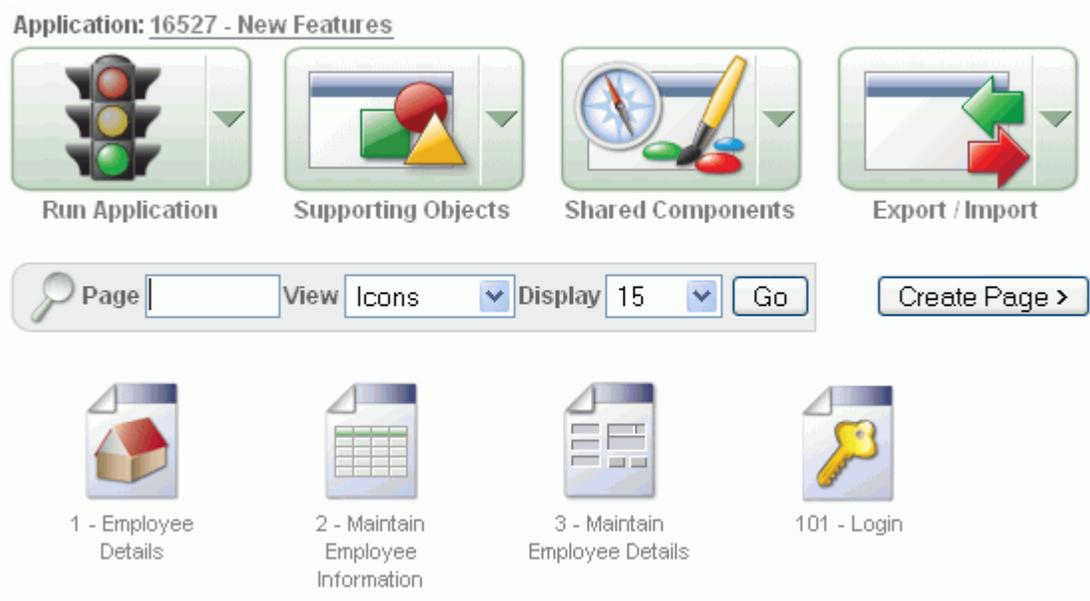


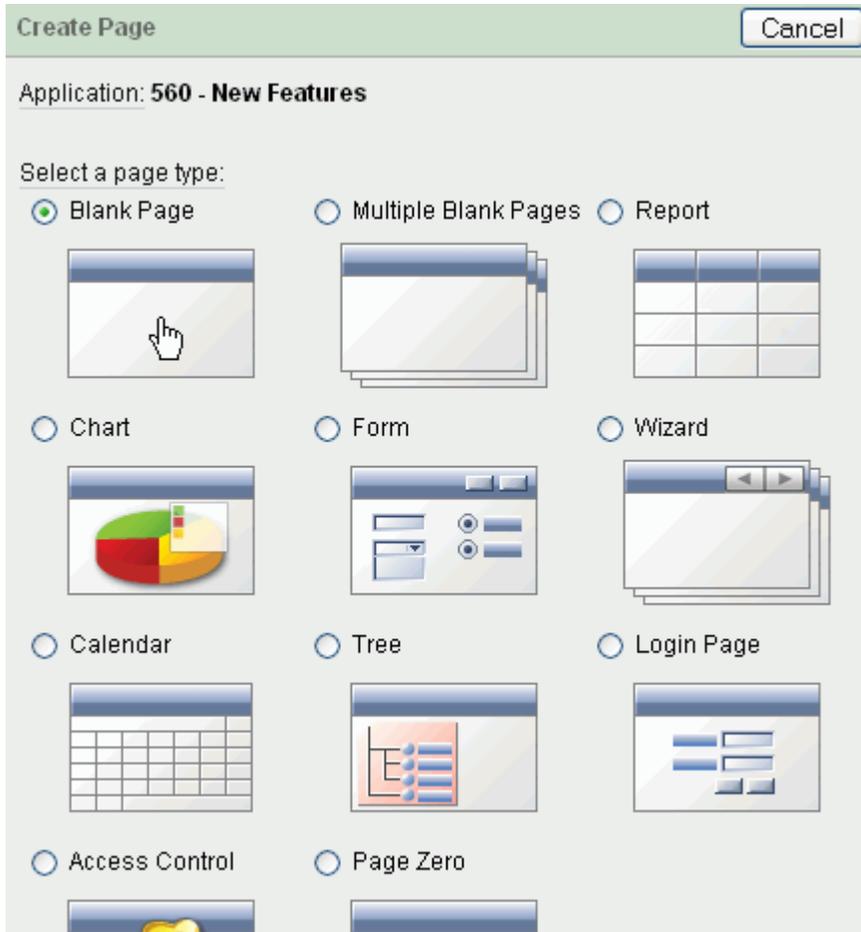
## Create a Send Email Page and HTML Region

You will create a page and region that allows a user to send an email with an attachment. Perform the following steps:

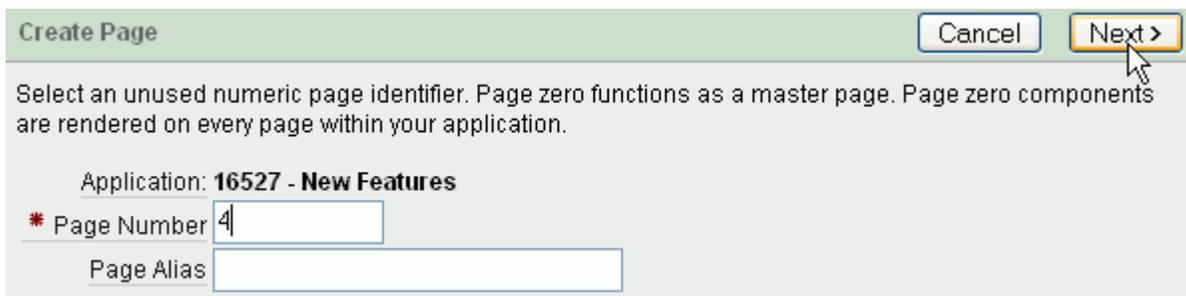
1. Navigate to your New Features Application page. Click **Create Page**.



2. Click **Blank Page**.



3. Click **Next**.



4. Enter **Send Email Attachment** for Name and click **Next**.

Create Page Cancel < Previous Next >

Page: 4

\* Name

Title

Breadcrumb

5. Accept the default and click **Next**.

Create Page Cancel < Previous Next >

Page: 4

Page Name: **Send Email Attachments**

Would you like to use tabs for this new page?

No

Yes - Create a new tab set and a new tab within the tab set.

Yes - Use an existing tab set and create a new tab within the existing tab set.

Yes - Use an existing tab set and reuse an existing tab within that tab set.

6. Click **Finish**.

Page Creation Confirmation Cancel < Previous Finish

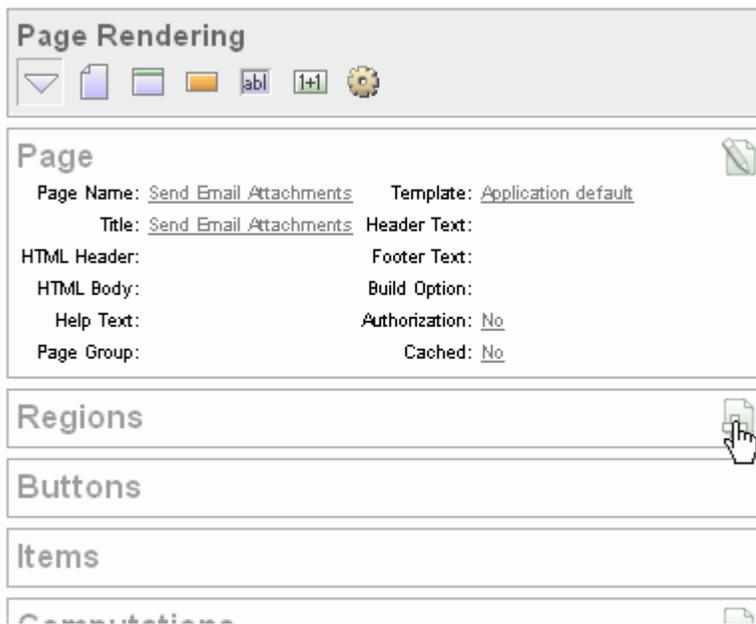
 You have requested to create a page with the following attributes. Please confirm your selections.

Application	<b>16527</b>
Page	<b>4</b>
Page Name	<b>Send Email Attachments</b>
Page Title	<b>Send Email Attachments</b>
Tab Set	<b>No tab set has been selected for this page.</b>
Tab Label	
Parent Tab Set	
Parent Tab Label	

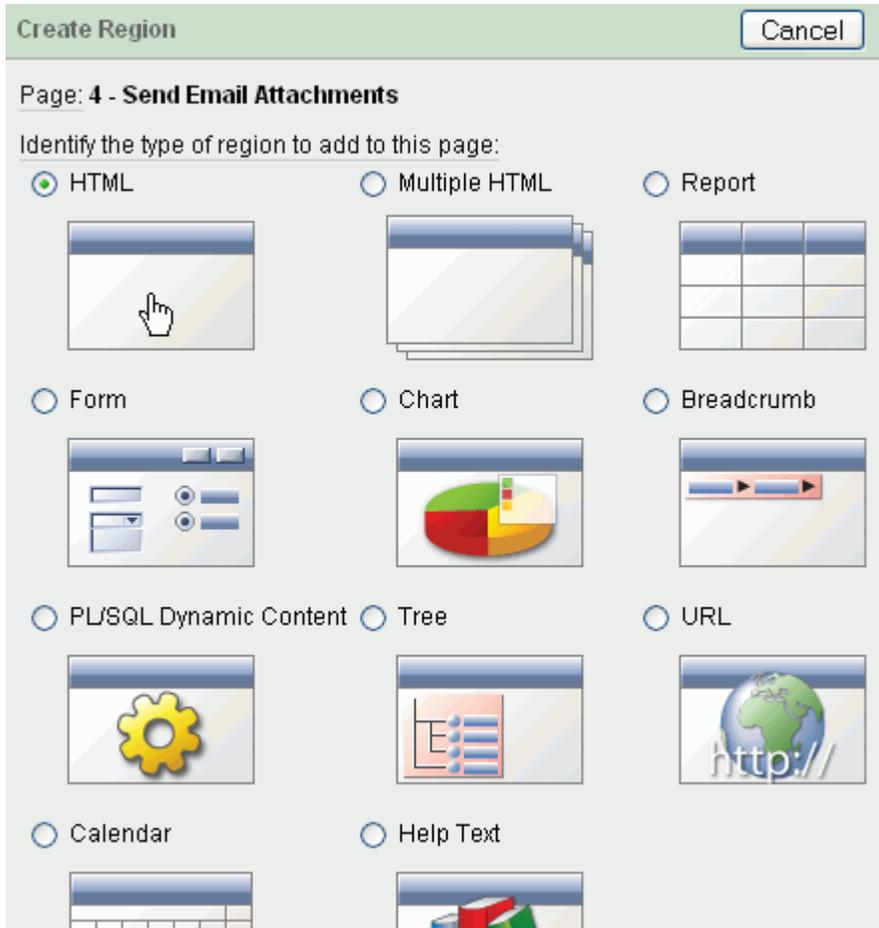
7. Your page was created. Now you need to add a region. Click **Edit Page**.



8. Under Regions, click the **Create**  icon.



9. Click the **HTML** icon.



10. Click the **HTML** icon again.



11. Enter **Email Attachment** for the Title and click **Create**.

**Create Region** Cancel < Previous Next > Create

Page: 4 - Send Email Attachments

Region Source Type: **HTML Text (no shortcuts)**

\* Title:

Region Template:

Display Point:

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

\* Sequence:  Column:

12. Your page and region have been created. In the next section you create the items you need to enter to send an email with an attachment.

**Page Rendering**

**Page**

Page Name: [Send Email Attachment](#) Template: [Application default](#)

Title: [Send Email Attachment](#) Header Text:

HTML Header: Footer Text:

HTML Body: Build Option:

Help Text: Authorization: [No](#)

Page Group: Cached: [No](#)

**Regions**

Display Point: Page Template Body (3)

10  [Email Attachment](#) HTML

**Buttons**

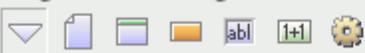
[Back to Topic List](#)

### Create Items to Store Email Information

You want to create all the necessary items needed to submit an email with an attachment. Perform the following steps:

1. Under Items, click the **Create** icon.

**Page Rendering**



**Page** 

Page Name: [Send Email Attachment](#)    Template: [Application default](#)  
Title: [Send Email Attachment](#)    Header Text:  
HTML Header:    Footer Text:  
HTML Body:    Build Option:  
Help Text:    Authorization: [No](#)  
Page Group:    Cached: [No](#)

**Regions** 

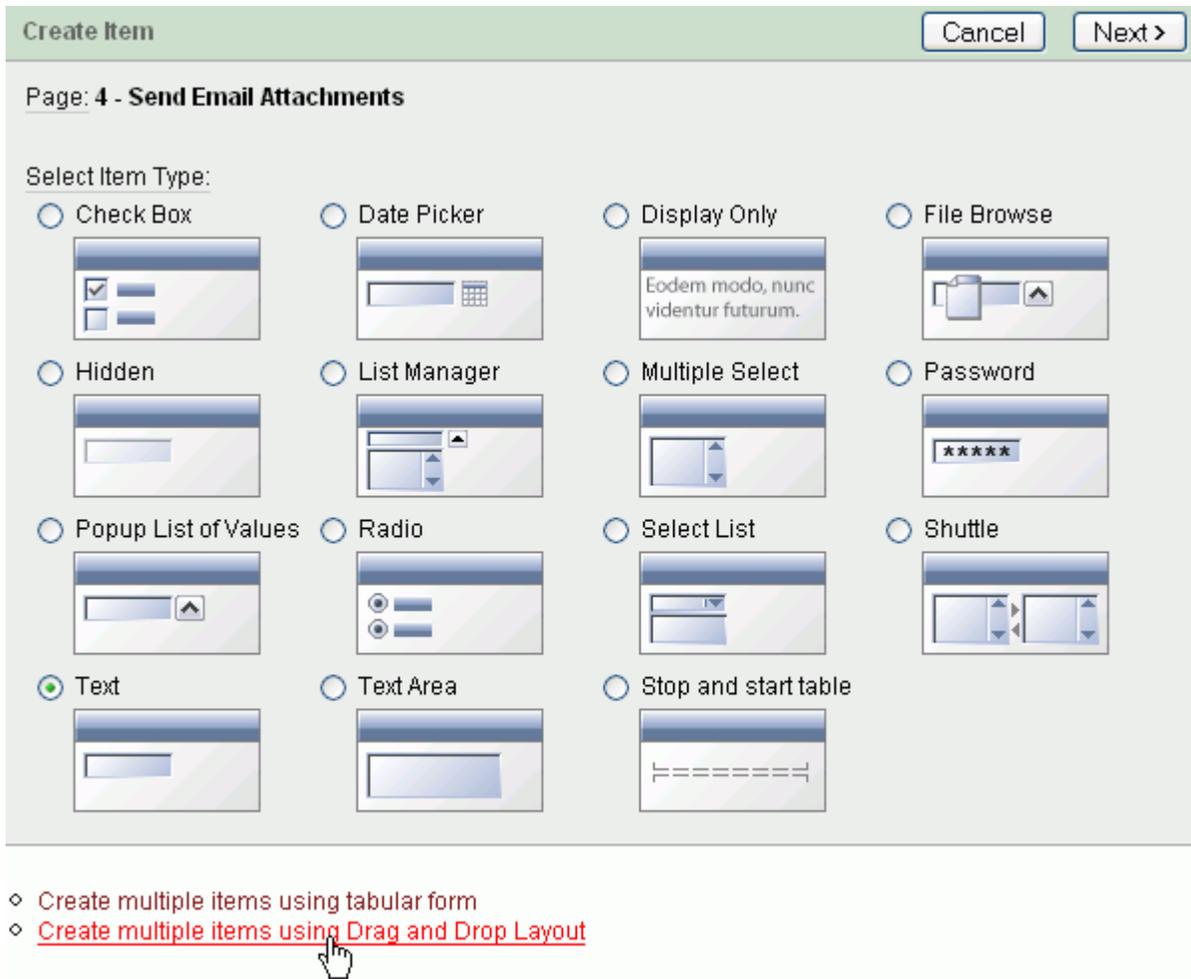
Display Point: Page Template Body (3)  
10  [Email Attachment](#)    HTML

**Buttons** 

**Items**  

**Computations** 

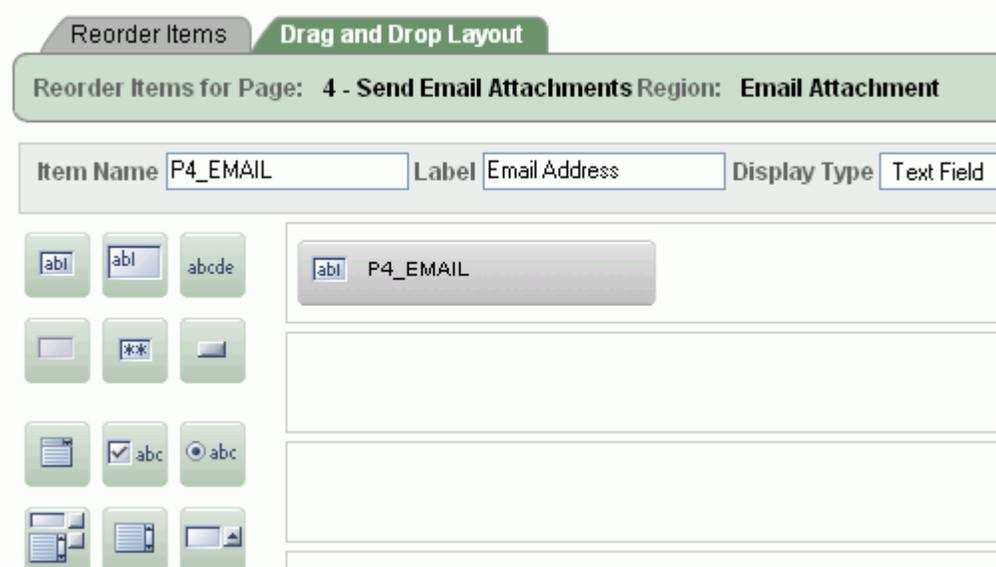
2. Since you need to create multiple items, select the **Create Multiple Items using Drag and Drop Layout** link.



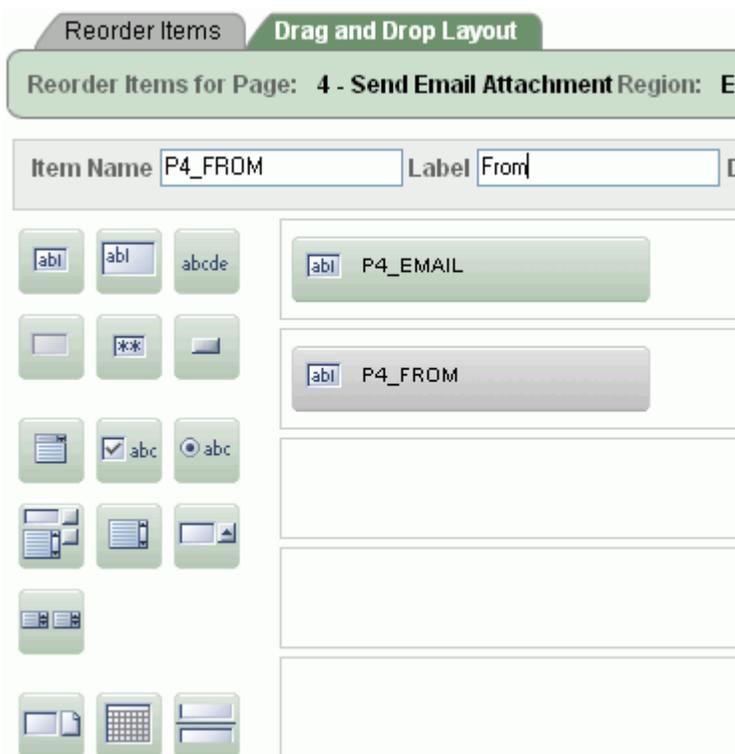
3. Click **Create Multiple Items >**.



4. Select the **Text**  icon and drag and drop it over to the first line. Enter **P<#>\_EMAIL** for the Item Name and **Email Address** for the Label.



5. Drag and drop the **Text**  icon to the second line. Enter **P<#>\_FROM** for the Item Name and **From** for the Label.



6. Create the rest of the items as shown below and then click **Next**.

Item Type	Item Name	Label
Text	P<#>_SUBJECT	Subject
Check box	P<#>_IMAGE	Attachment Images
Textarea	P<#>_BODY	Message Body

Reorder Items for Page: 4 - Send Email Attachment Region: Email Attachment

Item Name: P4\_BODY Label: Message Body Display Type: Textarea

- P4\_EMAIL
- P4\_FROM
- P4\_SUBJECT
- P4\_IMAGE
- P4\_BODY

7. Click **Apply Changes**.

Reorder Items for Page: 4 - Send Email Attachment Region: Email Attachment

	Name	Label	Display As
101	P4_EMAIL	Email Address	Text Field
102	P4_FROM	From	Text Field
103	P4_SUBJECT	Subject	Text Field
104	P4_IMAGE	Attachment Images	Checkbox
105	P4_BODY	Message Body	Textarea

8. Select the **P<#>\_IMAGE** link.

Items		
Region: <u>Email Attachment</u>		
101	<u>P4_EMAIL</u>	Text Field
102	<u>P4_FROM</u>	Text Field
103	<u>P4_SUBJECT</u>	Text Field
104	<u>P4_IMAGE</u>	Checkbox
105	<u>P4_BODY</u>	Textarea

9. Select the **LOV** tab.

Page Item: **P4\_IMAGE** Cancel Delete Apply Changes

Show All | Name | Displayed | Label | Element | Source | Default | **LOV** | Security | Conditions | Read Only | Help | Configuration

**Name**

Page: **4 Send Email Attachments**

\* Name:

Display As:  ▼

[Text] [Text Area] [Select List] [Radio] [Popup List of Values] [Checkbox] [Date] [Hidden] [List of Values]

Define List of Values

**Displayed**

\* Sequence:

\* Region:  ▼

Begin On New Line:  ▼ ...Field:  ▼ ColSpan:  Row Span:

10. You want to supply a list of employee pictures that will then be selected and emailed as an attachment. Enter the following List of Values definition and click **Apply Changes**. Note: the code below checks to see if the length of the photo column is not equal to 0, if so, it selects the blob from the photo column.

```
select filename||'<br>'||
       decode(nvl(dbms_lob.getlength(photo),0),0,null,
             '<img
src=""||apex_util.get_blob_file_src('P3_PHOTO',employee_id)
       ||'" height="128" width="128" />') img,
       employee_id r
from oehr_employees
where mimetype like 'image%'
order by 1
```

Page Item: P4\_IMAGE Cancel Delete Apply Changes

Show All Name Displayed Label Element Source Default **LOV** Security Conditions Read Only Help Configuration

### List of Values

Named LOV: - Select Named LOV -

Display Extra Values: No

Dynamic Translation: - Not Translated -

Number of Columns: 1

Display Null: No

Null display value:

Null return value:

List of values definition

```

||'" height="128" width="128" />') img,
employee_id r
from oehr_employees
where mimetype like 'image%'
order by 1

```

11. All the items have been defined. In the next section, you create a button and a process to send the email with the attachment to the recipient.

Page "4" item "P4\_IMAGE" processed.

Page 4 View Definition Go Run Copy De

#### Page Rendering

abl i+l gear

#### Page Processing

i+l check gear arrow

#### Items

Region: Email Attachment

101	P4_EMAIL	Text Field
102	P4_FROM	Text Field
103	P4_SUBJECT	Text Field
104	P4_IMAGE	Checkbox
105	P4_BODY	Textarea

#### Computations

---

#### Validations

---

#### Processes

---

#### Branches

---

[Back to Topic List](#)

Create a Button and Process to Send Email

The button and process you create in this section handles the sending of the email with the attachment. Perform the following steps:

1. Under Buttons, click the **Create** icon.

**Page Rendering**

**Page**

Page Name: [Send Email Attachment](#) Template: [Application default](#)  
Title: [Send Email Attachment](#) Header Text:  
HTML Header: Footer Text:  
HTML Body: Build Option:  
Help Text: Authorization: [No](#)  
Page Group: Cached: [No](#)

**Regions**

Display Point: Page Template Body (3)  
10  [Email Attachment](#) HTML

**Buttons**

**Items**

Region: [Email Attachment](#)

101	<a href="#">P4_EMAIL</a>	Text Field
102	<a href="#">P4_FROM</a>	Text Field
103	<a href="#">P4_SUBJECT</a>	Text Field
104	<a href="#">P4_IMAGE</a>	Checkbox
105	<a href="#">P4_BODY</a>	Textarea

2. Accept the default and click **Next**.

**Create Button**

Select a region for the button:

[Email Attachment \(1\) 10](#)

Cancel Next >

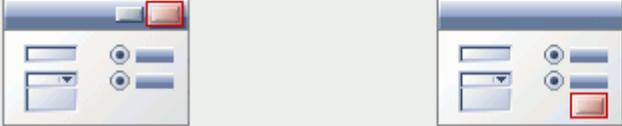
3. Select **Create a button displayed among this region's items** and click **Next**.

**Create Button** Cancel < Previous Next >

Page: **4 - Send Email Attachment**  
 Region: **Email Attachment (1) 10**

Position:

Create a button in a region position  Create a button displayed among this region's items



- Enter **P<#>\_SEND\_EMAIL** for the Name, enter **Send Email** for the Label and **EMAIL** for Request. Select **HTML Button** for Button Style and click **Create Button**.

**Create Button** Cancel < Previous Create Button

Page: **4 - Send Email Attachment**  
 Region: **Email Attachment**

\* Button Name   
 Sequence   
 Show:  Beginning on New Line  
 Beginning on New Field  
 \* Label   
 Request

---

Button Style  ▼  
 Image Name  ▲  
 Image Attributes   
 Template  ▼

- Your button was created. Now you can create the process that is invoked when the button is pressed. Under Page Processing for Processes, click the **Create** icon.

### Page Rendering

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#### Page

**Page Name:** [Send\\_Email\\_Attachment](#)    **Template:** [Application default](#)  
**Title:** [Send\\_Email\\_Attachment](#)    **Header Text:**  
**HTML Header:**    **Footer Text:**  
**HTML Body:**    **Build Option:**  
**Help Text:**    **Authorization:** [No](#)  
**Page Group:**    **Cached:** [No](#)

---

#### Regions

**Display Point:** Page Template Body (3)  
10  [Email Attachment](#)    **HTML**

---

#### Buttons

**Region:** [Email Attachment](#)  
**Item:** [Send Email](#) Submit as "EMAIL"

---

#### Items

**Region:** [Email Attachment](#) ▼ ▲ 📄 📁 📂

101	<a href="#">P4_EMAIL</a>	Text Field
102	<a href="#">P4_FROM</a>	Text Field
103	<a href="#">P4_SUBJECT</a>	Text Field
104	<a href="#">P4_IMAGE</a>	Checkbox
105	<a href="#">P4_BODY</a>	Textarea
115	<a href="#">P4_SEND_EMAIL</a>	button

### Page Processing

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---

#### Computations

---

#### Validations

---

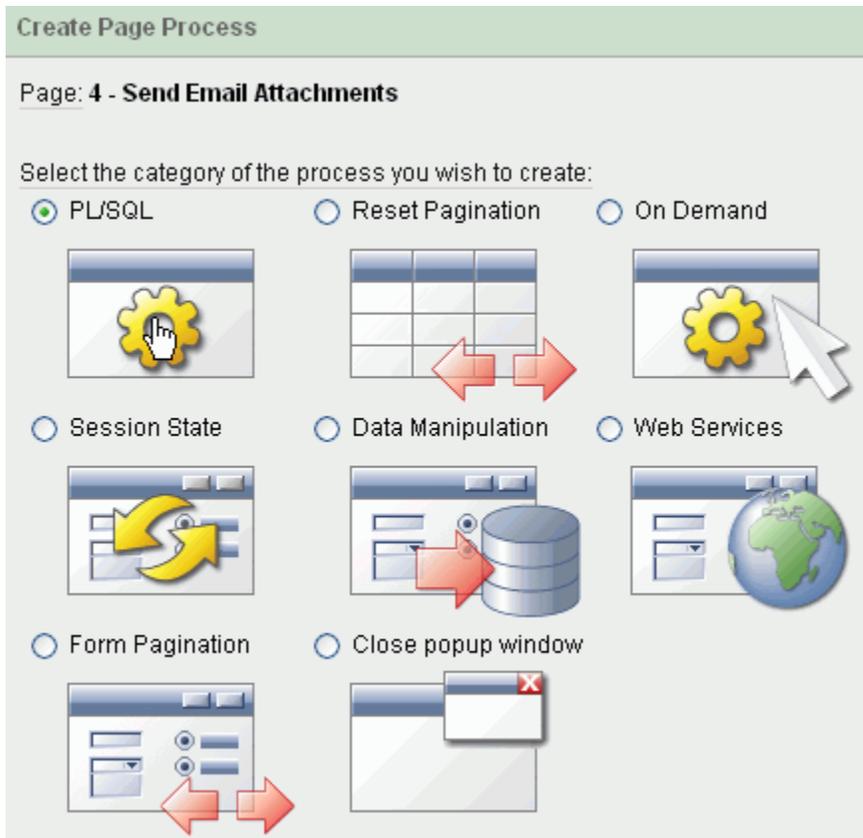
#### Processes

---

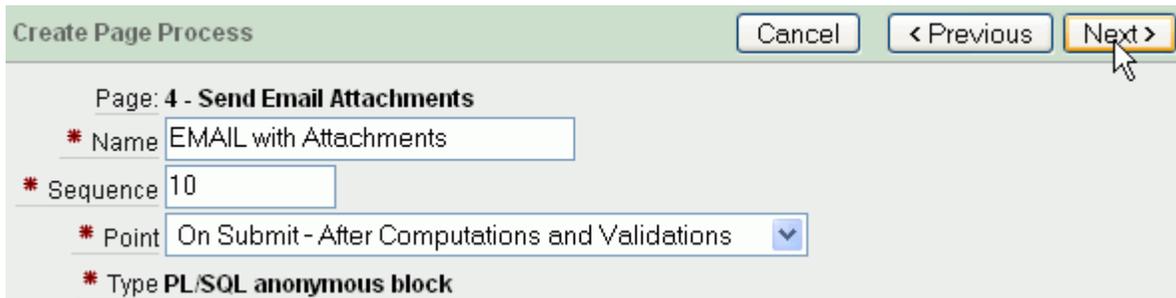
#### Branches

**After Processing**  
**00** [Go To Page\\_4 Unconditional](#)

6. Click the **PL/SQL** process category.



7. Enter **EMAIL with Attachments** for the Name and click **Next**.



8. Enter the following code in the PL/SQL Page Process area. Note: If you are currently not working on page 4, change the 4 to what ever your page number is. For example, if you are working on page 5, change P4\_IMAGE to P5\_IMAGE. Then click **Next**.

```

DECLARE
    l_id number;
    l_index number;
    l_vc_arr2 APEX_APPLICATION_GLOBAL.VC_ARR2;
BEGIN
    l_id := APEX_MAIL.SEND(

```

```

        p_to => :P4_EMAIL,
        p_from => :P4_FROM,
        p_subj => :P4_SUBJECT,
        p_body => :P4_BODY);
l_vc_arr2 := APEX_UTIL.STRING_TO_TABLE(:P4_IMAGE);
FOR i_index IN 1..l_vc_arr2.count LOOP
    FOR c1 in (select filename, photo, mimetype from oehr_employees
              where employee_id = l_vc_arr2(i_index)) loop
        APEX_MAIL.ADD_ATTACHMENT( p_mail_id    => l_id,
                                p_attachment => c1.photo,
                                p_filename   => c1.filename,
                                p_mime_type  => c1.mimetype);

    END LOOP c1;
END LOOP i_index;
COMMIT;
END;

```

The PL/SQL code in this process uses the existing capability, APEX\_MAIL.SEND, to create the main email but retrieves the id associated with the email for use with the attachments. The ids of the selected images (which is stored in :P4\_IMAGES as a colon delimited string), converts the string to a table (using the built in APEX\_UTIL.STRING\_TO\_TABLE) and loads that table into an array. More information is retrieved about each selected image from the base table (OEHR\_EMPLOYEES) and one at a time, the new procedure (APEX\_MAIL.ADD\_ATTACHMENT) executes and attaches the selected image to the base email.

Note: you are just using the text body here however if the text was formatted html, it should be sent using p\_body\_html.

Create Page Process
Cancel
< Previous
Next >
Create Process

Page: 4 - Send Email Attachments  
 Point: On Submit - After Computations and Validations

\* Enter PL/SQL Page Process

```

                p_body => :P4_BODY);
l_vc_arr2 := APEX_UTIL.STRING_TO_TABLE(:P4_IMAGE);
FOR i_index IN 1..l_vc_arr2.count LOOP
    FOR c1 in (select filename, photo, mimetype from oehr_employees
              where employee_id = l_vc_arr2(i_index)) loop
        APEX_MAIL.ADD_ATTACHMENT( p_mail_id    => l_id,
                                p_attachment => c1.photo,
                                p_filename   => c1.filename,
                                p_mime_type  => c1.mimetype);

    END LOOP c1;
END LOOP i_index;
COMMIT;
END;

```

Do not validate PL/SQL code (parse PL/SQL code at runtime only).

9. Enter Success and Failure Messages and click **Next**.

Create Page Process

Cancel < Previous **Next >** Create Process

Page: 4 - Send Email Attachments  
Point: On Submit - After Computations and Validations

Success Message  
Email sent successfully

Failure Message  
Email sent unsuccessfully

10. Select **P4\_SEND\_EMAIL** for When Button Pressed and click **Create Process**.

Create Page Process

Cancel < Previous **Create Process**

Page: 4 - Send Email Attachments  
Point: AFTER\_SUBMIT

When Button Pressed \*P4\_SEND\_EMAIL

Condition Type  
- Process Not Conditional -

[PL/SQL] [item=value] [item not null] [request=e1] [page in] [page not in] [exists] [none] [never]

Expression 1

11. You also need to modify the Branch to include a success message when the process completes. Note this option is not selected by default. Under Branches, select the **Go to Page** link.

<b>Validations</b>	
<b>Processes</b>	
After Submit	
10 <a href="#">EMAIL with Attachments</a> PL/SQL anonymous block Conditional	
<b>Branches</b>	
After Processing	
99 <a href="#">Go To Page 4</a> Unconditional	

12. Click the **include process success message** check box and click **Apply Changes**.

Branch: 1 of 1 Sequence: 99 Cancel Delete Apply Changes

**Show All** Point Action Conditions Authorization Configuration Comments

**Point**

Page: 4 **Send Email Attachment**

Branch Type: **Branch to Page or URL**

\* Branch Point:

\* Sequence:

---

**Action**

Target type:

Page:

reset pagination for this page

include process success message

Request:

Clear Cache:  (comma separated page numbers)

Set these items:  (comma separated name list)

13. Your branch was modified successfully. In the next section, you run and test the page. Since you only added one picture in the database in the [Defining and Viewing BLOB Data in Oracle Application Express 3.1](#) tutorial, you want to add another picture before you test the Send Email page. Select the page number (in most cases, 2) for Maintain Employee Information and click **Go**.

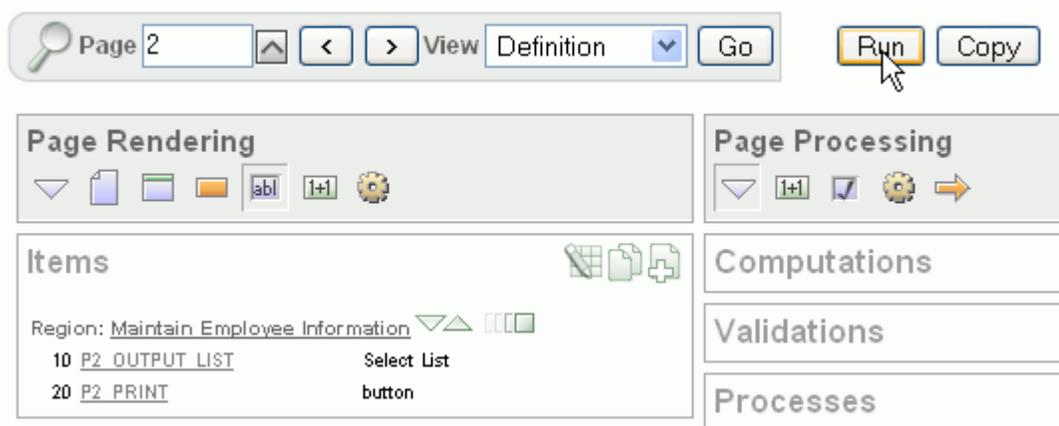


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### Test Send Email Page

Now you are ready to test the page and send an email with an attachment. Perform the following steps:

1. Click **Run** to run this page.



2. Select the Edit icon next to another employee to go to the Employee Details page.

**Maintain Employee Information** Create

Employee Manager Report Salary By Department

Output Format: PDF Print

Edit	First Name	Last Name	Email	Photo
	Steven	King	SKING	
	Neena	Kochhar	NKOCHHAR	<a href="#">Download</a>
	Lex	De Haan	LDEHAAN	
	Alexander	Hunold	AHUNOLD	
	Bruce	Ernst	BERNST	
	David	Austin	DAUSTIN	
	Valli	Pataballa	VPATABAL	
	Diana	Lorentz	DLORENTZ	

- For Photo, click **Browse...**

**Maintain Employee Details** Cancel Delete Apply Changes

First Name:

\*Last Name:

\*Email:

Phone Number:

\*Hire Date:

\*Job Id:

Salary:

Commission Pct:

Manager Id:

Department Id:

Photo:  Browse...

- Select the **flowers-01\_small.gif** file from the list of files you downloaded in the prerequisites [apexnf.zip](#) and click **Open**. Then click **Apply Changes**.

**Maintain Employee Details**

Cancel Delete **Apply Changes**

First Name

\*Last Name

\*Email

Phone Number

\*Hire Date  

\*Job Id

Salary

Commission Pct

Manager Id

Department Id

Photo

5. Now you can run the Send Email Attachments page. Click the Application link in the developer toolbar.

**Maintain Employee Information** [Create](#)

[Employee Manager Report](#) [Salary By Department](#)

Output Format: PDF ▼ [Print](#)

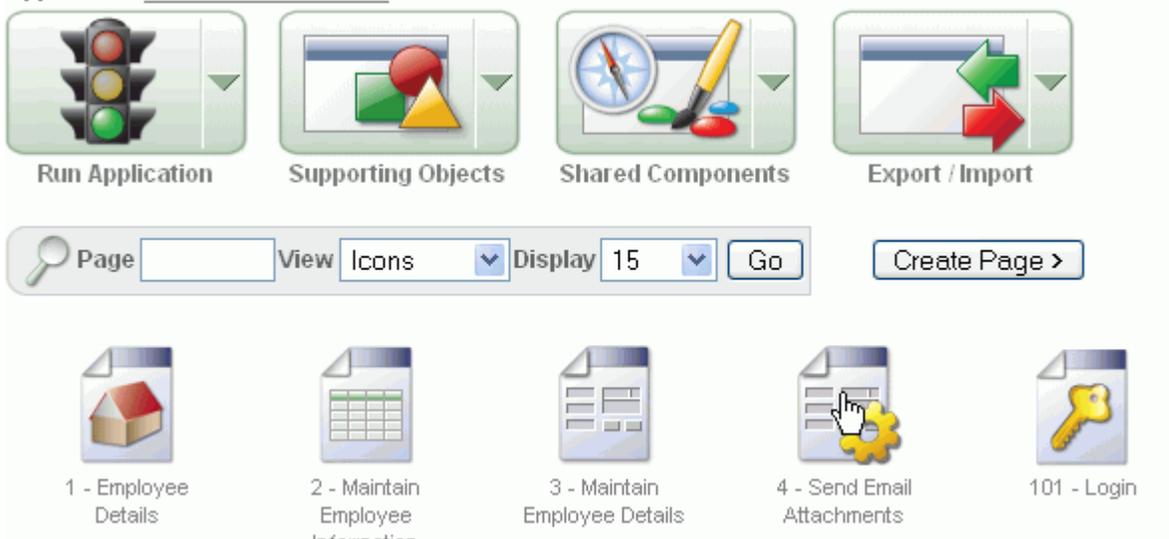
Edit	First Name	Last Name	Email	Photo
	Steven	King	SKING	
	Neena	Kochhar	NKOCHHAR	<a href="#">Download</a>
	Lex	De Haan	LDEHAAN	
	Alexander	Hunold	AHUNOLD	<a href="#">Download</a>
	Bruce	Ernst	BERNST	
	David	Austin	DAUSTIN	
	Valli	Pataballa	VPATABAL	
	Diana	Lorentz	DLORENTZ	
	Nancy	Greenberg	NGREENBE	
	Daniel	Faviet	DFAVIET	
	John	Chen	JCHEN	
	Ismael	Sciarra	ISCIARRA	
	Jose Manuel	Urman	JMURMAN	
	Luis	Popp	LPOPP	
	Den	Raphaely	DRAPHEAL	

row(s) 1 - 15 of 107 ▼ [Next >](#)

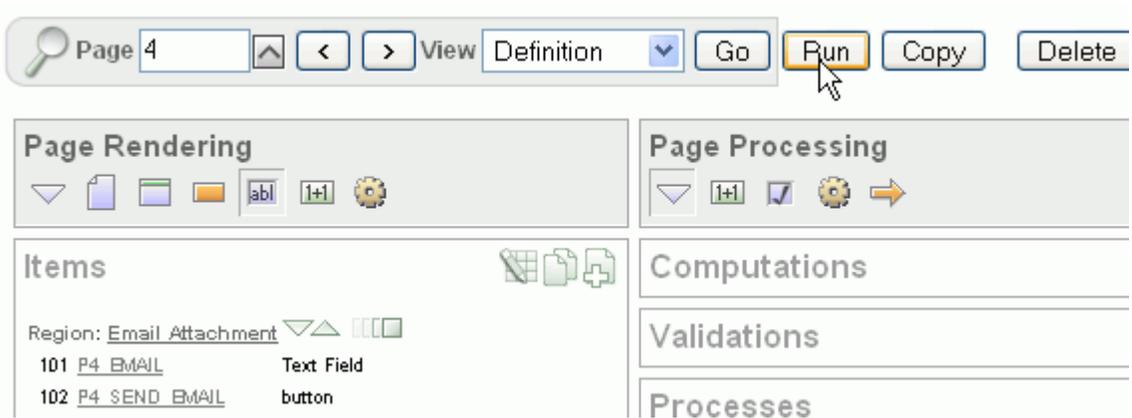
MARCIE.YOUNG@ORACLE.COM

[Home](#)
[Application 16527](#)
[Edit Page 2](#)
[C](#)

6. Select the **Send Email Attachments** page.



7. Click **Run Page**.



8. Enter your email address, a From: email address, a Subject:, select the dog.gif and flowers-01\_small.gif check boxes and enter something in the message body. Then click **Send Email**.

**Email Attachment**

Email Address

From

Subject

dog.gif



Attachment Images

flowers-01\_small.gif



Message Body

These pictures have been sent to you from your APEX application.

9. You should see that your email was sent successfully.

Email sent successfully

### Email Attachment

Email Address

From

Subject

dog.gif



Attachment Images

flowers-01\_small.gif



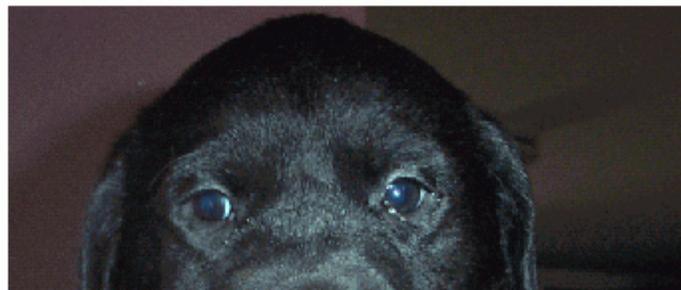
Message Body

These pictures have been sent to you from your APEX application.

10. The email received should look something like the image below.

**Subject:** Sending Image Attachment  
**From:** [marcie.young@oracle.com](mailto:marcie.young@oracle.com)  
**Reply-To:** [marcie.young@oracle.com](mailto:marcie.young@oracle.com)  
**Date:** 1:35 AM  
**To:** [marcie.young@oracle.com](mailto:marcie.young@oracle.com)

These pictures have been sent to you from your APEX application.



flowers-01\_small.gif



dog.gif

[Back to Topic List](#)

## Summary

In this tutorial, you learned how to create a page that contains all the necessary items to send an email with an attachment.

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## Related Information

To learn more about Application Express, you can review the following:

<b>Related Documentation</b>	<b>Description</b>
<a href="#">Online Help</a>	To access this help, click the Help button displayed in the top right corner of Application Express. Search on topics of interest.
<a href="#">Release Notes</a>	These notes contain important information not included in the Oracle Application Express documentation.
<a href="#">Installation Guide</a>	This guide explains how to install and configure Oracle Application Express.
<a href="#">2 Day + Developer's Guide</a>	This guide shows you how to set up a development environment or access a hosted demonstration environment to use with this guide. It then walks you through building an initial application, modifying it, and previewing it.
<a href="#">User's Guide</a>	This guide describes how to use the Oracle Application Express development environment to build and deploy database-centric Web applications. Oracle Application Express turns a single Oracle database into a shared service by enabling multiple workgroups to build and access applications as if they were running in separate databases.
<a href="#">Advanced Tutorial</a>	Tutorials with step-by-step instructions that explain how to create a variety of application components and entire applications using the Oracle Application Express development environment.