



Apex Desenvolvendo Aplicações Web

- **Rafael Tomé**



- Introduzir ao universo Oracle.
- Conhecer a facilidade de desenvolver para web com APEX.
- Criação de uma rápida aplicação com os recursos oferecidos por essa ferramenta.

+ ou - 3h

- **Começo 19h e 15 minutos**
- **Término previsto 22h e 30 minutos**
- Vamos combinar regras:
 - pausas, perguntas e saídas da sala de aula
 - Tudo para melhor aproveitamento do mini-curso.

Parte I	Parte II
1. Visão Geral – O que é o APEX ?	5. Processamento de páginas
2. Modelagem a ser implementada	6. Outros Componentes
3. Aplicação	7. Relatórios
4. Formulários	8. Controlando a navegação

- **Disponibilizar slides nesse site**

<http://rafaeltsouza.wordpress.com/>

Arquivos *.ppt e/o ou *.sql

- **Softwares para instalação quem se interessar:**

1. <http://www.oracle.com/technetwork/database/express-edition/downloads/102xewinsoft-090667.html>
2. <http://www.oracle.com/technetwork/developer-tools/apex/downloads/index.html>

- 1. O que é Apex ?**
- 2. Aspectos da instalação do banco Oracle XE e atualização para a nova versão do Apex 4.0.**
- 3. Considerações para o desenvolvimento web.**

- **Oracle Application Express (Oracle Apex)** é uma rápida ferramenta de desenvolvimento de aplicação web para o banco de dados Oracle.
- Usando somente o **browser** e experiência de programação limitada, você pode desenvolver e distribuir aplicações profissionais que são rápidas e seguras.

- A Oracle recomenda instalar em versões do LINUX um banco de dados oracle.
- Mas para fins de testes, e aprendizado é possível instalar no windows sem problemas.
- Funciona da mesma forma.
- Para se ter uma idéia ela disponibiliza duas versões windows e linux
- Comentários sobre o processo de instalação
 - Executar: OracleXEUniv.exe

- Nosso foco não é instalação do
 - Oracle XE e Apex 4.0
- Vamos abordar apenas a instalação no ambiente Windows.

- Instalação Banco Oracle XE
 - O banco de dados Oracle 10g edição expressa (Express Edition) é baseado no código do banco Oracle 10g release 2.
 - Livre para desenvolver, implantar e distribuir.
 - Rápido para download e simples de administrar (quase 300 MB de download).
 - Versões para Windows e Linux.

- O banco de dados Oracle XE pode ser instalado em qualquer máquina servidora com qualquer quantidade de CPU, mas somente armazena até 4GB de dados do usuário, utiliza 1Gb de memória, e usa uma CPU da máquina servidora.

Nome	Modificado em	Tipo	Tamanho
ebook	10/03/2010 20:34	Pasta de Arquivos	
10201_database_linux32.zip	06/03/2010 19:49	Arquivo ZIP do Wi...	653.061 KB
apex_3.2.1.zip	06/03/2010 15:06	Arquivo ZIP do Wi...	109.588 KB
DBXETutorial.zip	06/03/2010 15:17	Arquivo ZIP do Wi...	84.063 KB
		mento do Mi...	20 KB
		mento do Mi...	40 KB
		livo	211.849 KB
		o RPM	256.748 KB

InstallShield Wizard



Preparando para instalar...

O programa de instalação do Oracle Database 10g Express Edition está preparando o InstallShield Wizard para ajudá-lo com o processo de instalação. Aguarde.

Configurando o instalador do Windows



Cancelar

_28022010

Oracle Database 10g Express Edition - Assistente de Instalação



**Bem-vindo ao Assistente InstallShield para
Oracle Database 10g Express Edition**

O Assistente InstallShield(r) instalará Oracle Database 10g Express Edition no seu computador. Para continuar, clique em Próximo.



< Voltar

Próximo >

Cancelar

Oracle Database 10g Express Edition - Assistente de Instalação



Contrato de licença

Leia o contrato de licença a seguir com atenção.



ORACLE DATABASE 10g EXPRESS EDITION LICENSE AGREEMENT

To use this license, you must agree to all of the following terms (by either clicking the accept button or installing and using the program):

Aceito os termos do acordo de licença

[Imprimir](#)

Não aceito os termos do acordo de licença

InstallShield

< Voltar

[Avançar >](#)

[Cancelar](#)

Oracle Database 10g Express Edition - Assistente de Instalação



Escolher Local de Destino



Selecione a pasta na qual o programa de configuração instalará arquivos.

O programa de configuração instalará Oracle Database 10g Express Edition na pasta a seguir.

Para instalar nesta pasta, clique em Próximo. Para instalar em outra pasta, clique em Procurar e selecione outra pasta.

Oracle Database 10g Express Edition

1655988 K

Pasta de Destino

C:\oraclexe\

Procurar...

Espaço Necessário em C: 1655988 K

Espaço Necessário C: 21044988 K

InstallShield

< Voltar

Próximo >

Cancelar

Oracle Database 10g Express Edition - Assistente de Instalação

Especificar Senhas do Banco de Dados



Informe e confirme as senhas do banco de dados. Essa senha será usada para as contas de banco de dados SYS e SYSTEM.

Informar Senha

A password input field containing the placeholder "xxxxxx".

Confirmar Senha

A password input field containing the placeholder "xxxxxx".

Observação: Você deverá usar o usuário SYSTEM juntamente com a senha informada aqui para efetuar login na Home Page Banco de Dados após a instalação ser concluída.

InstallShield —

< Voltar

Próximo >

Cancelar

Oracle Database 10g Express Edition - Assistente de Instalação



Resumo

Verifique as definições antes de continuar antes continuar com a Instalação.



Definições de Instalação Atual:

Pasta de Destino: C:\oraclexe\
Porta do 'Oracle Database Listener':1521
Porta para 'Oracle Services for Microsoft Transaction Server':2030
Porta para Listener HTTP:8080

InstallShield —

< Voltar

Instalar

Cancelar

Oracle Database 10g Express Edition - Assistente de Instalação

Status da instalação



O Assistente do InstallShield® está instalando Oracle Database 10g Express Edition

InstallShield —

Oracle Database 10g Express Edition - Assistente de Instalação

Assistente InstallShield Concluído

O Programa de Instalação concluiu a instalação do Oracle Database 10g Express Edition em seu computador.



Acionar a homepage do Banco de Dados.

< Voltar

Finalizar

Cancelar

- Após a instalação do banco é possível acessar uma versão do Apex - versão 2.0.
- Não é tão completa como essa que vamos que conhecer a 4.0.
- O endereço considerando máquina local:
<http://127.0.0.1:8080/apex/f?p=4550:11:364048507829741::NO::>
- **A versão nativa do XE é a 2.1.0.00.39**
- Acesse o endereço acima com o **usuário sys** e a **senha do apex informado durante a instalação**.

Login no Banco de Dados

Informe o nome do usuário e a senha do banco de dados.

Nome do usuário

Senha

[Clique aqui para saber mais sobre como começar.](#)

Links

- Contrato de Licença
- Documentação
- Registro no Fórum
- Fórum de Discussão
- Página do Produto

Ferramenta para administração do banco de dados - versão antiga.



Administração



Browser de Objetos



SQL



Utilitários

- Links**
- ◊ Contrato de Licença
 - ◊ Conceitos Básicos
 - ◊ Saiba mais
 - ◊ Documentação
 - ◊ Registro no Fórum
 - ◊ Fórum de Discussão
 - ◊ Página do Produto

Monitor de Uso

Armazenamento: 870MB
0% 50% 100%

Memória: 302MB
0% 50% 100%

Sessões:

5 Total
1 Ativo

Usuários:

12 Interno
1 Banco de Dados
13 Total

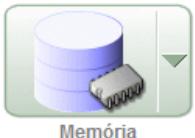
Arquivamento de Log:
Desativado

Application Express 2.1.0.00.39

Copyright © 1999, 2006, Oracle. Todos os direitos reservados.



Armazenamento



Memória



Usuários do BD



Monitorar



Sobre o BD



- Alterar Minha Senha
- Gerenciar Mensagem de Login
- Gerenciar Acesso HTTP

usuário: 515

Início > Administração > Gerenciar Usuários do Banco de Dados

Pesquisar Nome do Usuário

Exibir Ícones

Mostrar

Usuários do BD

Exibição 15

Ir

Criar >



HR

1-1

Usuário: SYS

Início > Administração > Gerenciar Usuários do Banco de Dados > Criar Usuário do Banco de Dados

Criar Usuário do Banco de Dados

Criar

* Nome do usuário

* Senha

* Confirmar Senha

Expirar Senha

Status da Conta

Tablespace Default: USERS
Tablespace Temporário: TEMP

Usuários do BD

Todos os objetos do banco de dados pertencem a um usuário do banco de dados. Utilize esta página para criar um novo usuário e definir privilégios. Utilize Comandos SQL para gerenciar outros atributos do usuário.

Privilégios de Usuário

Atribuições:

CONNECT RESOURCE DBA

Conceder Privilégios de Sistema Diretamente:

<input checked="" type="checkbox"/> CREATE DATABASE LINK	<input checked="" type="checkbox"/> CREATE MATERIALIZED VIEW	<input checked="" type="checkbox"/> CREATE PROCEDURE
<input checked="" type="checkbox"/> CREATE PUBLIC SYNONYM	<input checked="" type="checkbox"/> CREATE ROLE	<input checked="" type="checkbox"/> CREATE SEQUENCE
<input checked="" type="checkbox"/> CREATE SYNONYM	<input checked="" type="checkbox"/> CREATE TABLE	<input checked="" type="checkbox"/> CREATE TRIGGER
<input checked="" type="checkbox"/> CREATE TYPE	<input checked="" type="checkbox"/> CREATE VIEW	

[Marcar Tudo](#) [Desmarcar Tudo](#)

Usuário: SYS

Início > Administração > Gerenciar Usuários do Banco de Dados



Usuário Criado.

Pesquisar Nome do Usuário Exibir Mostrar Exibição 

HR



RAFAEL

1-2

Atualização apex 4.0

1. Descompacte a pasta **apex_4.0.1.zip** no c:\ do windows
2. No c:\ sqlplus sys as sysdba
3. On prompt SQL> faça:
 1. @apexins SYSAUX SYSAUX TEMP /i/
 2. Depois da instalação configure as imagens @apxldimg.sql (local apex)
 3. Altere a senha do INTERNAL usando @apxxepwd.sql (senha nova)

A screenshot of a Windows File Explorer window. The title bar shows the path "Computador > Disco Local (C:)". The left sidebar contains "Favoritos" with links to Área de Trabalho, Downloads, Locais, Bibliotecas, Documentos, Imagens, Músicas, and Vídeos; "Computador" with links to Disco Local (C:), Unidade de DVD-RW, and Home on '.psf' (Z:); and "Rede". The main area displays a list of files and folders in the root directory of C:, including apex_4.0.1 (Pasta de arquivos, modified 27/09/2010 22:50), Arquivos de Programas (Pasta de arquivos, modified 27/09/2010 22:30), oracleexe (Pasta de arquivos, modified 27/09/2010 22:28), PerfLogs (Pasta de arquivos, modified 13/07/2009 23:37), Usuários (Pasta de arquivos, modified 28/09/2010 01:59), Windows (Pasta de arquivos, modified 27/09/2010 22:26), apex_4.0.1 (Pasta compactada, modified 20/09/2010 21:05), and OracleXEUniv (Aplicativo, modified 06/03/2010 14:36). The status bar at the bottom indicates "8 itens".

Organizar	Compartilhar com	Gravar	Nova pasta				
				Nome	Data de modificaç...	Tipo	Tamanho
★ Favoritos				apex_4.0.1	27/09/2010 22:50	Pasta de arquivos	
Área de Trabalho				Arquivos de Programas	27/09/2010 22:30	Pasta de arquivos	
Downloads				oracleexe	27/09/2010 22:28	Pasta de arquivos	
Locais				PerfLogs	13/07/2009 23:37	Pasta de arquivos	
Bibliotecas				Usuários	28/09/2010 01:59	Pasta de arquivos	
Documentos				Windows	27/09/2010 22:26	Pasta de arquivos	
Imagens				apex_4.0.1	20/09/2010 21:05	Pasta compactada	138.965 KB
Músicas				OracleXEUniv	06/03/2010 14:36	Aplicativo	211.849 KB
Vídeos							
Computador							
Disco Local (C:)							
Unidade de DVD-RW							
Home on '.psf' (Z:)							
Rede							
				8 itens			

Administrator: C:\Windows\system32\cmd.exe

O Número de Série do Volume é 90FF-D10C

Pasta de C:\

```
27/09/2010 22:50    <DIR>      apex_4.0.1
20/09/2010 21:05      142.299.197 apex_4.0.1.zip
10/06/2009 18:42          24 autoexec.bat
10/06/2009 18:42          10 config.sys
27/09/2010 22:28    <DIR>      oracleexe
06/03/2010 14:36      216.933.372 OracleXEUniv.exe
13/07/2009 23:37    <DIR>      PerfLogs
27/09/2010 22:30    <DIR>      Program Files
28/09/2010 01:58    <DIR>      Users
27/09/2010 22:26    <DIR>      Windows
        4 arquivo(s)   359.232.603 bytes
        6 pasta(s)    57.661.087.744 bytes disponíveis
```

C:\>

Administrator: C:\Windows\system32\cmd.exe

```
C:\>cd apex_4.0.1  
C:\apex_4.0.1>cd apex  
C:\apex_4.0.1\apex>_
```

```
C:\>cd apex_4.0.1
C:\apex_4.0.1>cd apex
C:\apex_4.0.1\apex>sqlplus sys as sysdba
SQL*Plus: Release 10.2.0.1.0 - Production on Seg Set 27 22:59:53 2010
Copyright (c) 1982, 2005, Oracle. All rights reserved.

Informe a senha:
Conectado a:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
SQL> _
```

Administrator: C:\Windows\system32\cmd.exe - sqlplus sys as sysdba

Sessão alterada.

www_flow_migrate_metadata

Pacote criado.

Não houve erros.

...create flow objects

Procedimento PL/SQL concluído com sucesso.

Seqüência criada.

Tabela criada.

Índice criado.

Índice criado.

...insert default companies

```
Administrador: C:\Windows\system32\cmd.exe - sqlplus sys as sysdba
...0 index types
...Begin key object existence check 23:22:27
...Completed key object existence check 23:22:28
...Setting DBMS Registry 23:22:28
...Setting DBMS Registry Complete 23:22:28
...Exiting validate 23:22:28
sincronizando para: Validate Installation
Decorrido: 00:03:53.71
sincronizando para: Development Installation
Decorrido: 00:16:35.96
Desconectado de Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

C:\apex_4.0.1\apex>sqlplus sys as sysdba
SQL*Plus: Release 10.2.0.1.0 - Production on Seg Set 27 23:23:11 2010
Copyright (c) 1982, 2005, Oracle. All rights reserved.

Informe a senha:
Conectado a:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production
SQL> _
```

Administrador C:\Windows\system32\cmd.exe - sqlplus sys as sysdba

```
...0 index types
...Begin key object existence check 23:22:27
...Completed key object existence check 23:22:28
...Setting DBMS Registry 23:22:28
...Setting DBMS Registry Complete 23:22:28
...Exiting validate 23:22:28
sincronizando para: Validate Installation
Decorrido: 00:03:53.71
sincronizando para: Development Installation
Decorrido: 00:16:35.96
Desconectado de Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

C:\apex_4.0.1\apex>sqlplus sys as sysdba

SQL*Plus: Release 10.2.0.1.0 - Production on Seg Set 27 23:23:11 2010

Copyright (c) 1982, 2005, Oracle. All rights reserved.

Informe a senha:

Conectado a:
Oracle Database 10g Express Edition Release 10.2.0.1.0 - Production

SQL> @apxldimg.sql c:\apex_4.0.1_
```

Administrador: C:\Windows\system32\cmd.exe - sqlplus sys as sysdba

Procedimento PL/SQL concluído com sucesso.

antigo 1: create directory APEX_IMAGES as '&1/apex/images'
novo 1: create directory APEX_IMAGES as 'c:\apex_4.0.1/apex/images'

Diretório criado.

Procedimento PL/SQL concluído com sucesso.

Procedimento PL/SQL concluído com sucesso.

Procedimento PL/SQL concluído com sucesso.

Commit concluído.

sincronizando para: Load Images
Decorrido: 00:02:20.36

Diretório eliminado.

SQL> _

Administrator: C:\Windows\system32\cmd.exe - sqlplus sys as sysdba

Diretório eliminado.

SQL> @apxxepwd.sql

Sessão alterada.

...changing password for ADMIN

Procedimento PL/SQL concluído com sucesso.

Commit concluído.

SQL> @apxxepwd.sql rafael

Sessão alterada.

...changing password for ADMIN

Procedimento PL/SQL concluído com sucesso.

Commit concluído.

SQL>

Com essa atualização o APEX transforma na versão 4.0, com uma série de recursos tais como: gráficos, relatórios interativos e uma série de vantagens.

Oracle Application Express

127.0.0.1:8080/apex/f?p=4500:1000:7999805609846391

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Workspace

Workspace RAFAEL [Learn more ...](#)

 Application Builder  SQL Workshop  Team Development  Administration

News [\[+\]](#) [\[+\]](#)

Top Applications
Sample Application  2

Page events: 1 hours

Top Users
rafael  5
nobody  2
demo  1

Page events: 1 hours

Team Development
Show: All [Edit](#)
Release: All Releases

Features 0
Todo's 0
Milestones 0
Bugs 0
Feedback 0

[Set Screen Reader Mode On](#)

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

About

Application Express is a rapid Web application development tool that lets you share data and create applications. Using only a Web browser and limited programming experience, you can develop and deploy applications that are fast and secure.

Available Updates

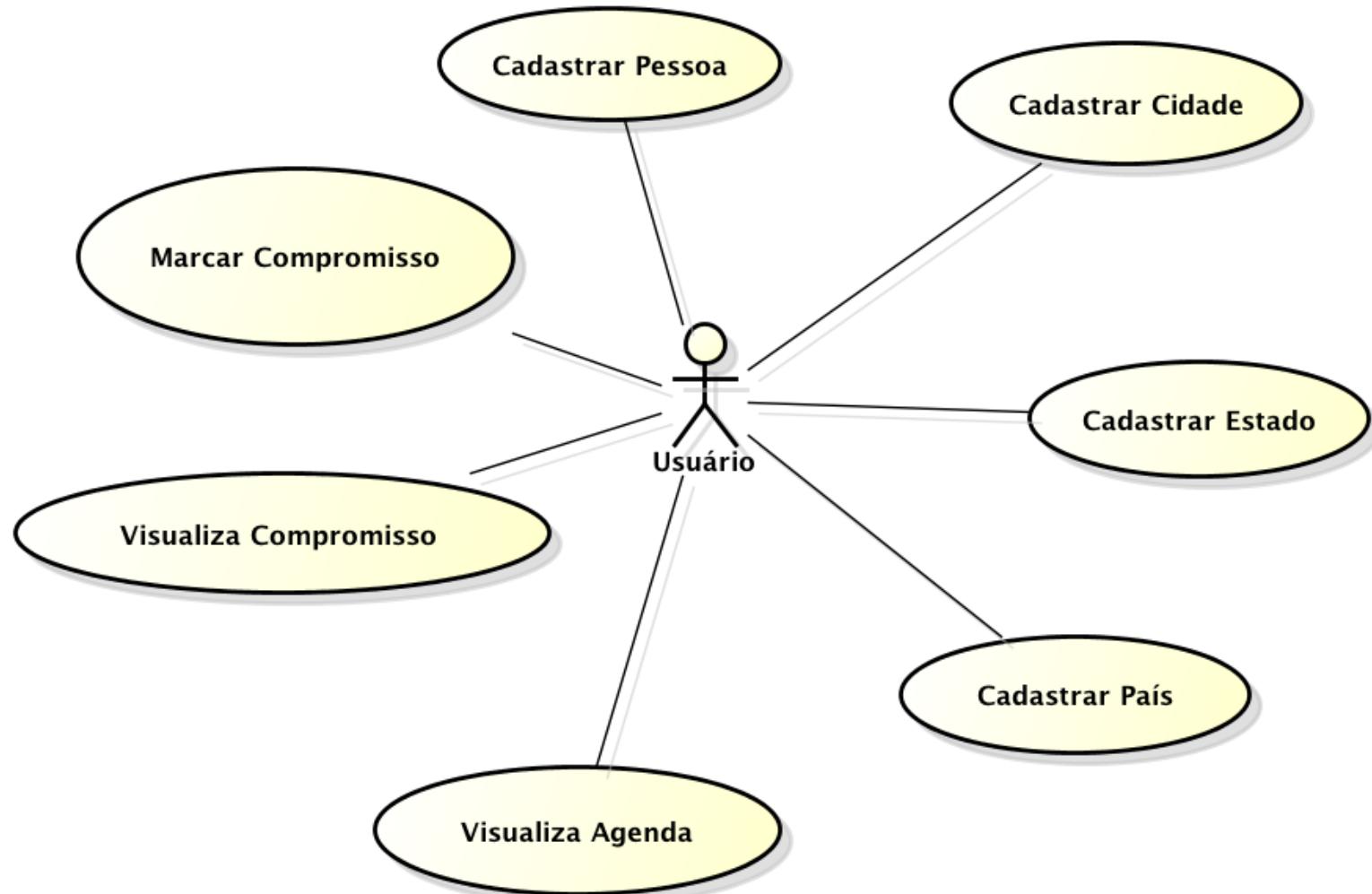
PL/SQL Web Toolkit 10.1.2.0.6 required [\[More Information\]](#)

Vamos a prática, acessem

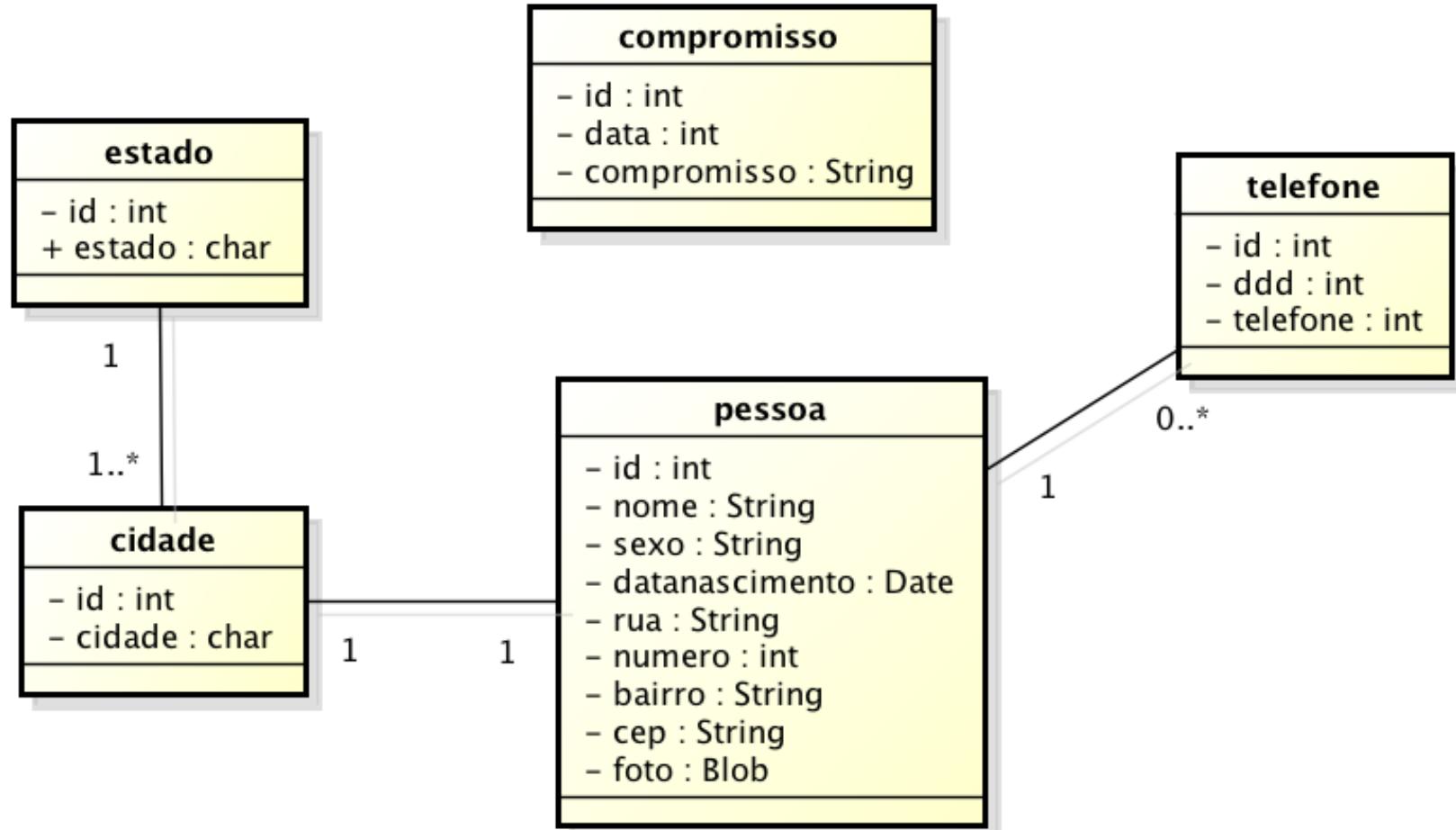
<http://oracle-labs.redeinterna.toledo.br:8080/apex>

**Vamos conhecer os conceitos do APEX com a
implementação de um exemplo simples uma
agenda....**

Modelagem a ser implementada



Modelagem a ser implementada



3. P - Aplicação

- a) Aplicação....
- b) Conhecendo a ferramenta de desenvolvimento
- c) Executar o **script** para criação das tabelas e **sequences** a ser utilizado no exemplo
- d) Criando a aplicação
- e) O que é componente compartilhado
- f) Importação e exportação de componentes e aplicações.

3. P – Conhecendo a ferramenta

Oracle Application Express x +

127.0.0.1:8080/apex/f?p=4500:1000:452292371776255::RP::

ORACLE® Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Workspace Help

Workspace RAFAEL

Learn more ...

Application Builder SQL Workshop Team Development Administration

About

Application Express is a rapid Web application development tool that lets you share data and create applications. Using only a Web browser and limited programming experience, you can develop and deploy applications that are fast and secure.

News |

Available Updates

PL/SQL Web Toolkit 10.1.2.0.6 required [More Information]

Top Applications

Top Users

rafael 22

Page events: 1 hours

Team Development

Show: All Release: All Releases

Features	0
Todo's	0
Milestones	0
Bugs	0
Feedback	0

[Set Screen Reader Mode On](#)

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

EN 21:35 28/09/2010

3. P – Conhecendo a ferramenta

Application Builder – área para criação das aplicações web que pode se basear em um padrão, partir do zero ou a partir de arquivo em xls.

Sql Workshop – área para criação de tabelas, execução de DDL e DML.

Team Development – área para acompanhamento do desenvolvimento do time. Gerenciamento de bug, lista de tarefas.

Administration – área para administração do banco de dados e do apex.

3. P – Executar o script

The screenshot shows the Oracle Application Express interface, specifically the SQL Commands page. The browser address bar displays the URL: 127.0.0.1:8080/apex/f?p=4500:1003:452292371776255::NO:::. The main title is "ORACLE Application Express". The navigation menu includes Home, Application Builder, SQL Workshop (selected), Team Development, and Administration. The breadcrumb trail shows Home > SQL Workshop > SQL Commands. The schema is set to RAFAEL. The toolbar includes Autocommit checked, Rows dropdown set to 10, Save, and Run buttons. Below the toolbar is a large text input area. At the bottom, there are tabs for Results, Explain, Describe, Saved SQL, and History, with the Results tab selected. A message says "Enter SQL statement or PL/SQL command and click Run to see the results." The status bar at the bottom shows "Application Express 4.0.1.00.03", "Workspace: RAFAEL User: RAFAEL", "Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.", and a system tray with icons for network, battery, volume, and date/time (21:42, 28/09/2010).

3. P – Criar aplicação

Create Application + New

127.0.0.1:8080/apex/f?p=4000:679:452292371776255::NO:56,103,104,106,130,131,4011,4012,4013,4059,4061,35,262,227,3020,3000,3001:FB_FLOW_ID,FB_FLOW_PAGE_ID:, Star Print

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Create Application Cancel Next >

Method

Define Application Confirm

Application Type:

Database 

Websheet 

Sample Applications 

About

Database Applications

Database applications enable developers to have full control over all aspects of development process and final application functionality. With database applications, developers can directly leverage their SQL and PL/SQL programming skills. Database applications use declarative control over flow control and support full user interface controls through the use of templates and themes.

Websheet Applications

Websheet applications enable users to build data centric applications without any SQL programming knowledge. Websheet applications are simplified and support pages, data grids, and reports. These applications are easy to build and support community contributions.

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Create Application x +

127.0.0.1:8080/apex/f?p=4000:3000:452292371776255:CC:NO:3000,3001,3020

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Method

Name

Pages

Tabs

Shared Components

Attributes

User Interface

Confirm

Create Application

Cancel < Previous Next >

Enter an application name and an unique application ID. Then, select an application creation method and a schema.

* Name Agenda

* Application 101

Create Application: From scratch Based on existing application design model

Schema RAFAEL

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Create Application x +

127.0.0.1:8080/apex/f?p=4000:3001:452292371776255:DELETE::P3001_DELETE_PAGE:1259015781376425

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Method

Name

Pages

Tabs

Shared Components

Attributes

User Interface

Confirm

Create Application

Add pages to your application by selecting a page type and clicking Add Page.

Add Page

Select Page Type:

Blank Report Form Report and Form

Tabular Form Master Detail Chart

Action: Add blank page to application

Page Name Principal

Add Page

Select the type of page you wish to create:

- **Blank** creates a page with no built-in functionality.
- **Report** creates a page that contains the formatted result of a SQL query. You can choose to build a report based on a table you select, or based on a custom SQL SELECT statement or a PL/SQL function returning a SQL SELECT statement that you provide.
- **Form** creates a form to update a single row in a database table.
- **Report and Form** builds a two page report and form combination. On the first page, users select a row to update. On the second page, users can update the selected table or view.
- **Tabular Form** creates a form to perform update, insert, and delete operations on multiple rows in a database table.
- **Master Detail** builds a two page report and form combination. On the first page, users select a row to update. On the second page, users can update the selected table or view and its associated detail. The associated detail table or view must have a foreign key relationship to the selected master table or view.

21:47 28/09/2010

3. P – Criar aplicação

Create Application x +
127.0.0.1:8080/apex/f?p=4000:3001:452292371776255::NO:::
ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Create Application Help

Create Application

Page	Page Name	Page Type	Source Type	Source	Delete
1	Principal	Blank	-	-	X

Add Page

Select Page Type:

Blank Report Form Report and Form
 Tabular Form Master Detail Chart

Action: Add blank page to application
Subordinate to Page: Top Level Page -
Page Name: Page 2

Add Page

Select the type of page you wish to create:

- **Blank** creates a page with no built-in functionality.
- **Report** creates a page that contains the formatted result of a SQL query. You can choose to build a report based on a table you select, or based on a custom SQL SELECT statement or a PL/SQL function returning a SQL SELECT statement that you provide.
- **Form** creates a form to update a single row in a database table.
- **Report and Form** builds a two page report and form combination. On the first page, users select a row to update. On the second page, users can update the selected table or view.
- **Tabular Form** creates a form to perform update, insert, and delete operations on multiple rows in a database table.
- **Master Detail** builds a two page report and form combination. On the first page, users select a row to update. On the second page, users can update the selected table or view and its associated detail. The associated detail table or view must have a foreign key relationship to the selected master table or view.



3. P – Criar aplicação

Create Application x +

127.0.0.1:8080/apex/f?p=4000:437:452292371776255::NO::

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Method

Name

Pages

Tabs

Shared Components

Attributes

User Interface

Confirm

Create Application Cancel < Previous Next >

Application: 101 Name: Agenda

Tabs:

No Tabs One Level of Tabs Two Levels of Tabs

Cancel < Previous Next >

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Create Application x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE® Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Create Application Help

Method

Name

Pages

Tabs

Shared Components

Attributes

User Interface

Confirm

Create Application Cancel < Previous Next >

Shared components are common application elements that can be displayed or applied across multiple pages in an application. To save time or maintain consistency between applications, it is possible to copy the shared components from an existing application.

Copy Shared Components from Another Application:

Yes No

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Create Application x +
127.0.0.1:8080/apex/f?p=4000:3020:452292371776255::NO:::

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Create Application Cancel < Previous Next >

Authentication Scheme:
 Application Express No Authentication Database Account

Language:
English (United States) (en-us)

User Language Preference Derived From:
Application Primary Language

Date Format:

Attributes

Method
Name
Pages
Tabs
Shared Components
User Interface
Confirm

Application Express 4.0.1.00.03
Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Create Application x +
127.0.0.1:8080/apex/f?p=4000:3004:452292371776255::NO:::
ORACLE® Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application Help

Home > Application Builder > Create Application

Method Name Pages Tabs Shared Components Attributes User Interface Confirm

Create Application Cancel < Previous Next >

Show All Themes Select a theme:

Theme 1

Theme 1 - Red

Welcome: ADMIN (Logout) Print Feedback

Products

Stock #	Product	Description	Availability	Category	Price
1	3.2 GHz Desktop PC	All the options, this machine is loaded!	Y	Computer	1200
2	MP3 Player	Store up to 1000 songs and take them with you	Y	Audio	199
3	Bluetooth Headset	Hands-Free without the wires!	Y	Phones	40
4	PDA Cell Phone	Combine your cell phone and PDA into one device	Y	Phones	250
5	Portable DVD Player	Small enough to take anywhere!	Y	Video	500

Comments

This page shows various display controls used for this theme.

Date Comments

Reset Apply

Theme 2

Theme 2 - Builder Blue

Welcome: ADMIN (Logout) Print Feedback

Products

Stock #	Product	Description	Availability	Category	Price
1	3.2 GHz Desktop PC	All the options, this machine is loaded!	Y	Computer	1200
2	MP3 Player	Store up to 1000 songs and take them with you	Y	Audio	199
3	Bluetooth Headset	Hands-Free without the wires!	Y	Phones	40
4	PDA Cell Phone	Combine your cell phone and PDA into one device	Y	Phones	250
5	Portable DVD Player	Small enough to take anywhere!	Y	Video	500
6	512 MB DRAM	Expand your PCs memory and gain more performance	Y	Computer	200
7	54" Plasma Flat Screen	Mount on the wall or ceiling, the picture is crystal clear!	Y	Video	3995
8	Classic Projector	Does not include transparencies or grease pencil	Y	Video	50
9	Ultra Slim i3 laptop	The power of a desktop in a portable device	Y	Computer	1800

Comments

This page shows various display controls used for this theme.

Date Comments

Reset Apply

Themes

A theme is a named collection of templates that defines the application user interface.

Each theme contains templates for every type of application component and page control, including individual pages, regions, reports, lists, labels, breadcrumbs, buttons, and list of values. Templates contain HTML and variables that the Application Express engine substitutes with dynamic values at runtime.

Compatibility

* Indicates theme is IE 6 compatible

EN 21:52 28/09/2010



3. P – Criar aplicação

Create Application x +

127.0.0.1:8080/apex/f?p=4000:3005:452292371776255::::THEME_ID:5

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Create Application Help

Method

Name

Pages

Tabs

Shared Components

Attributes

User Interface

Confirm

Create Application Cancel < Previous Create

You have requested to create an application with the following attributes. Please confirm your selections.

Application	101
Name	Agenda
Parsing Schema	RAFAEL
Default Language	en-us
Tabs	One Level of Tabs
Default Authentication Scheme	Application Express Authentication
Theme Type	Standard
UI Theme	5



Save this definition as a design model for reuse

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



3. P – Criar aplicação

Application Builder ✖

127.0.0.1:8080/apex/f?p=4000:1:452292371776255::NO:RP:F4000_P1_PAGE:&success_msg=Application%20created%20successfully./C34D8C751D513B0C6D18924D2C9B ★ ↗

ORACLE® Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 Page 1 Help

Application created successfully.

Application: 101 - Agenda

Edit Application Properties Create Page >

Run Application Supporting Objects Shared Components Utilities Export / Import

Applications are made up of pages. For each page you can declaratively define how the page is rendered and processed. Controls that are not specific to a page are called shared components. Shared components include authentication, authorization, user interface templates, and tabs.

Learn more ...

1 - Principal 101 - Login

1 - 2

Tasks

- Delete this Application
- Copy this Application
- Customize Display

Recently Edited Pages

- 101. Login
- 1. Principal

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

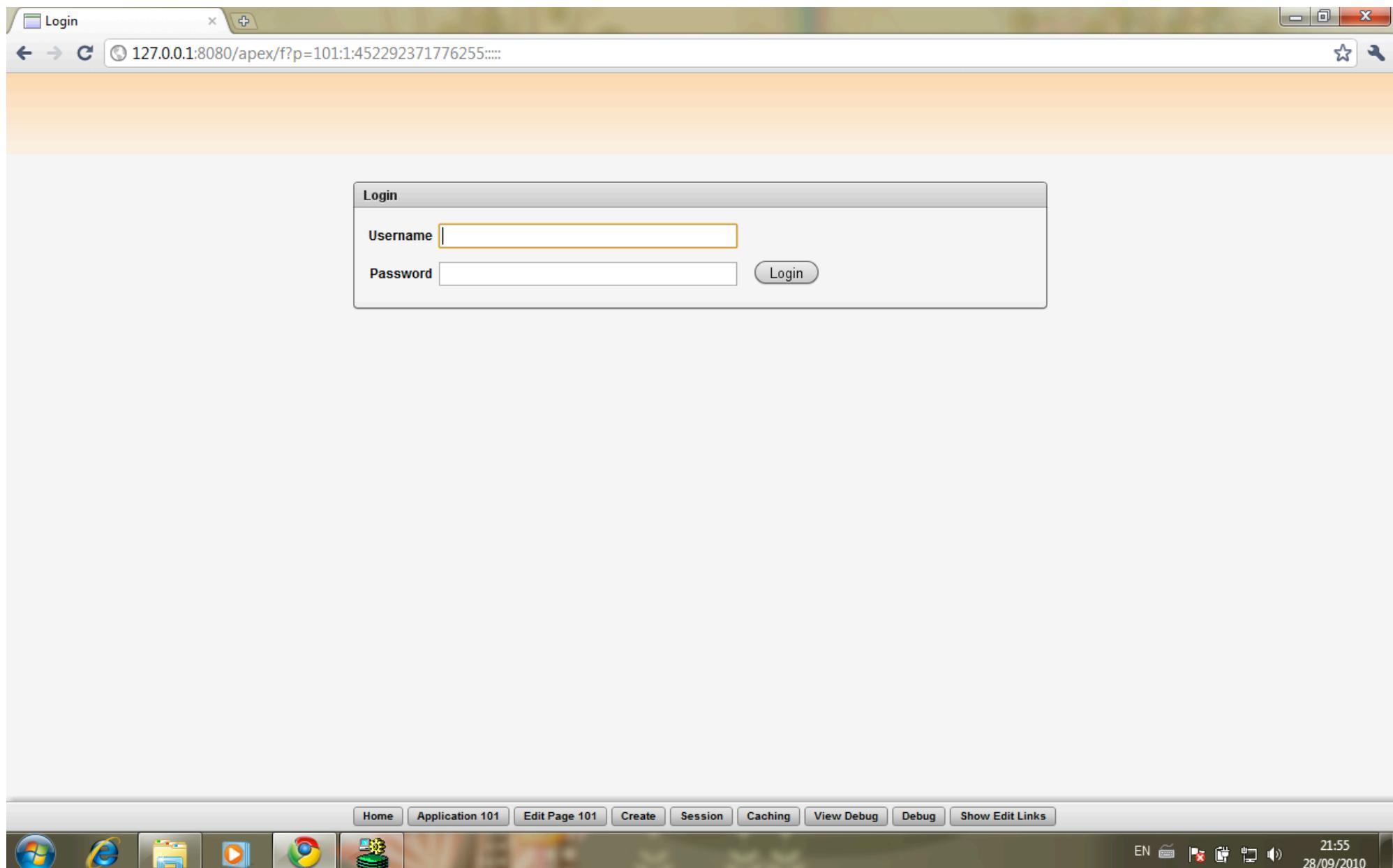


3. P – Criar aplicação

A sua primeira aplicação está pronta...

**... Vamos executar para isso, clique em
“Run Application”**

3. P – Criar aplicação



4. P – Relatórios

Application Builder 127.0.0.1:8080/apex/f?p=4000:1:452292371776255::NO:RP:FB_FLOW_ID,F4000_P1_FLOW:101,101

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 Page 1 Help

Application: 101 - Agenda

Edit Application Properties Create Page >

Run Application Supporting Objects Shared Components Utilities Export / Import

Applications are made up of pages. For each page you can declaratively define how the page is rendered and processed. Controls that are not specific to a page are called shared components. Shared components include authentication, authorization, user interface templates, and tabs.

Learn more ...

1 - Principal 101 - Login

1 - 2

Tasks

- Delete this Application
- Copy this Application
- Customize Display

Recently Edited Pages

- 101. Login
- 1. Principal

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

Create Page x + 127.0.0.1:8080/apex/f?p=4000:259:452292371776255::NO:181,259,380,311,355::

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page Page 1 Help

Page Define

Create Page Cancel < Previous Next >

Application: 101 - Agenda

Select a page type:

Blank Page Multiple Blank Pages Report

Chart Form Wizard

Calendar Tree Login Page

Access Control Page Zero Map

Feedback Page

EN 21:59 28/09/2010

4. P – Relatórios

Create Page + New Page

127.0.0.1:8080/apex/f?p=4000:4700:452292371776255::P259_CHOOSE_PAGE_TYPE,P4700_SELECT_REPORT_TYPE:REPORT,DYNAMIC_QUERY

ORACLE Application Express Welcome RAFAEL (Logout)

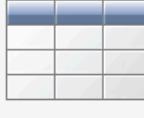
Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page Page 1 Edit Report Help

Create Page Cancel < Previous Next >

Page Define

Interactive Report Classic Report Report on Web Service Result

Wizard Report 

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

Create Interactive Report x + 127.0.0.1:8080/apex/f?p=4000:759:452292371776255:::759,767,768,769,771,772::

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page > Interactive Report Page 1 Help

Create Interactive Report Cancel Next >

Identify a page number and name. If the page number you specify does not exist, the wizard creates the page for you.

Application: 101 - Agenda

* Page Number 2

* Page Name Lista de contatos

* Region Template Region without Buttons and Titles

* Region Name Report 1

Breadcrumb - do not use breadcrumbs on page -

Page Attributes Tab Attributes SQL Query Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

Create Interactive Report x +

127.0.0.1:8080/apex/f?p=4000:767:452292371776255::NO::

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page > Interactive Report Page 1 Help

Page Attributes Tab Attributes SQL Query Confirm

Create Interactive Report Cancel < Previous Next >

Specify whether to use tabs for this page. You may either use an existing tab or create a new one for this page.

Page: 2

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.

Tab Set TS1 (Principal) ▾

New Tab Label Lista de contatos

Tabs

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

Create Interactive Report x +

127.0.0.1:8080/apex/f?p=4000:769:452292371776255::NO::

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page > Interactive Report Page 1 Help

Page Attributes Tab Attributes SQL Query Confirm

Create Interactive Report

* Enter a SQL SELECT statement

```
select *  
from pessoa
```

Cancel < Previous Next >

Query Builder

Link to Single Row View Yes
Uniquely Identify Rows by ROWID
Unique Column

SQL Query Example

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

Create Interactive Report x + 127.0.0.1:8080/apex/f?p=4000:771:452292371776255::NO::

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 1 > Create Page > Interactive Report Page 1 Help

Page Attributes Tab Attributes SQL Query Confirm

Interactive Report Confirmation Cancel < Previous Finish

You have requested to create an Interactive Report page with the following attributes. Please confirm your selections.

Application	101
Page	2
Page Name	Lista de contatos
Tab Set	TS1
Tab Name	
Tab Label	Lista de contatos
Region Title	Report 1
Region Template	Region without Buttons and Titles

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



4. P – Relatórios

A screenshot of a web browser window titled "Lista de contatos". The URL in the address bar is "127.0.0.1:8080/apex/f?p=101:2:452292371776255::NO". The top right corner shows a welcome message "Welcome: RAFAEL" and a "Logout" link. The main content area has tabs "Principal" and "Lista de contatos", with "Lista de contatos" selected. Below the tabs is a search bar with a magnifying glass icon, a "Go" button, and an "Actions" dropdown menu. A message "No data found." is displayed. At the bottom of the browser window, there is a toolbar with buttons for "Home", "Application 101", "Edit Page 2", "Create", "Session", "Caching", "View Debug", "Debug", and "Show Edit Links". The taskbar at the very bottom shows icons for the operating system, browser, file explorer, and other applications, along with the date and time "28/09/2010" and "22:05".

4. P – Relatórios

**Acho que eu tinha que ter feito o cadastro antes, mas
não tem problema. Agora fica mais fácil ainda...**

**Vamos ter que desenvolver vários
cadastros são eles:**

- 1. Cadastro de Estado**
- 2. Cadastro de Cidade**
- 3. Cadastro de Pessoa**
- 4. Cadastro de Compromissos**

5. P – Formulários

Application Builder x

127.0.0.1:8080/apex/f?p=4000:1:452292371776255::NO:1,4150,RP:FB_FLOW_ID,FB_FLOW_PAGE_ID,F4000_P1_FLOW,F4000_P4150_GOTO_PAGE,F4000_P1_PAGE:101,2,101,2

ORACLE® Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 Page 2 Help

Application: 101 - Agenda

Edit Application Properties Create Page >

Run Application Supporting Objects Shared Components Utilities Export / Import

Applications are made up of pages. For each page you can declaratively define how the page is rendered and processed. Controls that are not specific to a page are called shared components. Shared components include authentication, authorization, user interface templates, and tabs.

Learn more ...

1 - Principal 2 - Lista de contatos 101 - Login

1 - 3

Tasks

- Delete this Application
- Copy this Application
- Customize Display

Recently Edited Pages

- 2. Lista de contatos
- 101. Login
- 1. Principal

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Page + New

127.0.0.1:8080/apex/f?p=4000:4700:452292371776255::NO:::

ORACLE® Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page Page 2 Edit Report List Search Help

Create Page Cancel < Previous Next >

Page Define

Form on a Procedure Form on a Table or View Form on a Table with Report

Master Detail Form Tabular Form Form on a SQL Query

Summary Page Form on Web Service Form and Report on Web Service

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

127.0.0.1:8080/apex/f?p=4000:4703:452292371776255::NO:4703,4040,4041,4775,...



EN Print Copy Paste 22:24
28/09/2010

5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/f?p=4000:4703:452292371776255::NO:4703,4040,4041,4775,4039,4776,4777,4778,4779,4782,4783,443:F4000_P4703_REPORT_PAGE_ID:

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Create Pages Cancel Next >

This wizard builds a two page report and form combination on a single table or view. The first page enables users to specify the row to be updated. The second page provides users with ability to update the selected table or view. Select the schema owner who owns the database table or view.

* Table / View Owner RAFAEL

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Create Pages Cancel < Previous Next >

Select the table or view on which you wish to base your report and form.

Owner: RAFAEL

* Table / View Name ESTADO

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report

Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

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: RAFAEL

Table Name: ESTADO

Implementation Interactive

* Page Number 5

* Page Name Lista estado

* Region Title Estado

* Region Template Region without Buttons and Titles

Report Template template: 5. Standard

Pagination Size 15

Breadcrumb - do not add breadcrumb region to page -

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Create Report Page Cancel < Previous Next >

Both report and form pages will use the same tab definition

Page: 5

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.

Tabs

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report

Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

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: 5
Owner: RAFAEL
Table Name: ESTADO

* Select Column(s)
1.ID (Number)
2.ESTADO (Varchar2)
3.SIGLAESTADO (Varchar2)

Optional WHERE clause

Example SQL WHERE clause

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

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: 5
Owner: RAFAEL
Table Name: ESTADO

Edit Link Image:

- 
- 
- 
- 
- Edit
- Other Image

Use Other Image

Image Attributes

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

Create Form and Report x +

127.0.0.1:8080/apex/www_flow.accept

ORACLE Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report

Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Create Form Page

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: RAFAEL

Table Name: ESTADO

* Page Number: 6

* Page Name: Cadastrar Estado

* Region Title: Estado

* Region Template: Form Region

Cancel < Previous Next >

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Create Form Page Cancel < Previous Next >

Select the primary key column of the table on which this form is to be based. If the table has two columns that form the primary key, identify the second primary column.

Form Page: 6
Owner: RAFAEL
Table Name: ESTADO

* Primary Key Column 1: ID

Primary Key Column 2: ID

Identify Table or View
Define Report Page
Define Form Page
Confirm

Application Express 4.0.1.00.03
Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Create Form Page Cancel < Previous Next >

Form Page: 6 Owner: RAFAEL Table Name: ESTADO Primary Key Column 1: ID

* Define the source for the primary key columns

Existing trigger Custom PL/SQL function Existing sequence



* Sequence AGSEQ_ESTADO

Custom PL/SQL function example Existing Triggers

Primary Key
Select the method by which the primary key is populated.
Choose Existing Trigger if an existing trigger will be used to populate the primary key or if the user will be expected to enter the primary key value manually.
Choose Custom PL/SQL Function to define custom PL/SQL logic to generate the primary key value.
Choose Existing Sequence if an existing sequence will be used to generate the primary key.

Application Express 4.0.1.00.03
Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Create Form Page Cancel < Previous Next >

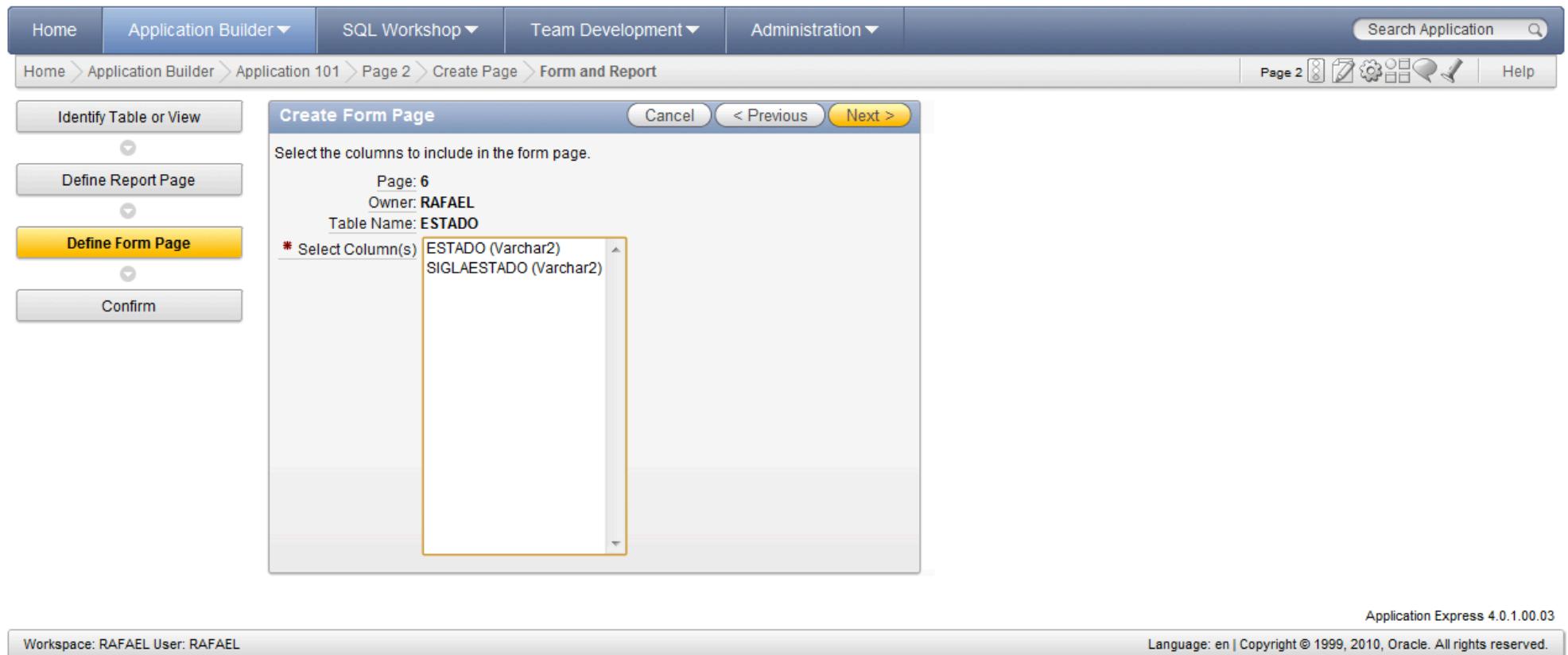
Select the columns to include in the form page.

Page: 6
Owner: RAFAEL
Table Name: ESTADO

* Select Column(s) **ESTADO (Varchar2)**
SIGLAESTADO (Varchar2)

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report

Page 2 Help

Identify Table or View

Define Report Page

Define Form Page

Confirm

Identify Process Options

Cancel < Previous Next >

Identify the process options for this form page. For example, to prevent users from deleting from this form page, select No for the delete option.

Form Page: 6

Owner: RAFAEL

Table Name: ESTADO

Insert Yes

Update Yes

Delete Yes

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Form and Report Page 2 Help

Identify Table or View
Define Report Page
Define Form Page
Confirm

Form and Report Page Confirmation Cancel < Previous **Finish**

You have requested to create form and report pages with the following attributes.
Please confirm your selections.

Application	101
Report Page	5
Report Page Name	Lista estado
Report Implementation	Interactive
Form Page	6
Form Page Name	Cadastrar Estado
Tab Set	
Tab Label	
Table / View Owner	RAFAEL
Table / View Name	ESTADO
Primary Key Column 1	ID
Primary Key Column 2	
Updateable Columns	ESTADO SIGLAESTADO
Report Columns	ID ESTADO SIGLAESTADO
Where Clause	
Process Options	Insert,Update,Delete

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

Welcome: RAFAEL Logout

Go Actions ▾ Create

Id	Estado	Siglaestado
1	São Paulo	SP
2	Rio de Janeiro	RJ
3	Espírito Santo	ES
4	Amazonas	AM
5	Paraná	PR

1 - 5

5. P – Formulários

Welcome: RAFAEL Logout

Estado

Estado

Siglaestado

8. P – Controlando Navegação

Vamos fazer isso para estado e cidade.

... Mão a obra ...

**Os cadastros de estado e cidade
estão prontos, agora como cadastrar
Pessoa e compromissos.**

- O **cadastro de pessoa** tenho que permitir **cadastrar vários telefone (mestre-detalhe)**
- O **cadastro de compromisso** quero que ele visualize o que ele tem que fazer no dia.

5. P – Formulários

**Cadastro de pessoa tenho que permitir cadastrar vários
telefone (mestre-detalhe), faça assim:**

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 Page 7 | Help

Application: 101 - Agenda

Edit Application Properties Create Page >

Run Application Supporting Objects Shared Components Utilities Export / Import

About Applications are made up of pages. For each page you can declaratively define how the page is rendered and processed. Controls that are not specific to a page are called shared components. Shared components include authentication, authorization, user interface templates, and tabs.

[Learn more ...](#)

Actions

1 - Principal 2 - Lista de contatos 5 - Lista estado 6 - Cadastrar Estado 7 - Lista cidade

8 - Cadastrar Cidade 101 - Login

1 - 7

Tasks

- Delete this Application
- Copy this Application
- Customize Display

Recently Edited Pages

- 8. Cadastrar Cidade
- 7. Lista cidade
- 5. Lista estado
- 6. Cadastrar Estado
- 2. Lista de contatos
- 1. Principal
- 101. Login

Application Express 4.0.1.00.03

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 7 > Create Page Page 7 Help

Create Page Cancel < Previous Next >

Define

Form on a Procedure Form on a Table or View Form on a Table with Report

Master Detail Form Tabular Form Form on a SQL Query

Summary Page Form on Web Service Form and Report on Web Service

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail

Page 7 Help

Master Table

Define Master Table Cancel Next >

Select the table or view which contains the columns to be included in the master page.

Table / View Owner: RAFAEL

Table / View Name: PESSOA (table)

* Select columns for master page

ID
NOME
SEXO
DATANASCIMENTO
RUA
NUMERO
BAIRRO
CEP
FOTO
IDCIDADE

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail Page 7 Help

Master Table

Define the source for master table primary key columns.

Table Name: RAFAEL.PESSOA

Primary Key Column 1: ID

* Primary Key Source

Existing trigger Custom PL/SQL function Existing sequence

* Sequence AGSEQ_PESSOA

Primary Key

Select the method by which the primary key is populated.

Choose Existing Trigger if an existing trigger will be used to populate the primary key, or if the user will be expected to enter the primary key value manually.

Choose Custom PL/SQL Function to define custom PL/SQL logic to generate the primary key value.

Choose Existing Sequence if an existing sequence will be used to generate the primary key.

Master Table Detail Table Primary Key Source Master Options Layout Page Attributes Tab Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail

Page 7 Help

Master Table

Detail Table (selected)

Primary Key Source

Master Options

Layout

Page Attributes

Tab

Confirm

Define Detail Table

Cancel < Previous Next >

Select the table or view which contains the columns to be included in the detail page.

Master Table: RAFAEL.PESSOA

Show Only Related Tables: Yes No

Table / View Owner: RAFAEL

Table / View Name: TELEFONE

* Select columns for detail page

ID	DDD
IDPESSOA	TELEFONE
	TIPOTELEFONE

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail Page 7 Help

Master Table

Detail Table Cancel < Previous Next > Finish

Define the source for detail table primary key columns.

Table Name: RAFAEL.TELEFONE

Primary Key Column 1: ID

* Primary Key Source

Existing trigger Custom PL/SQL function Existing sequence



* Sequence AGSEQ_TELEFONE

Primary Key Select the method by which the primary key is populated.

Choose Existing Trigger if an existing trigger will be used to populate the primary key or if the user will be expected to enter the primary key value manually. Detail tables do not support user entered primary key values.

Choose Custom PL/SQL Function to define custom PL/SQL logic to generate the primary key value.

Choose Existing Sequence if an existing sequence will be used to generate the primary key.

Master Options

Layout

Page Attributes

Tab

Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail Page 7 Help

Master Table
Detail Table
Primary Key Source
Master Options (highlighted)
Layout
Page Attributes
Tab
Confirm

Define Master Options Cancel < Previous Next > Finish

Determine whether to include master row navigation. If you include master row navigation, define navigation order column(s). If a navigation order column is not defined, the master update form will navigate by the primary key column.

By default, this wizard creates a master report page. You can choose to not create master report page if you already have a report page.

Master Table: RAFAEL.PESSOA

Include master row navigation? Yes

Master Row Navigation Order ID

Secondary Navigation Order ID

Include master report? Yes No

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Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail

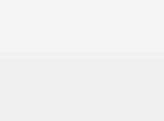
Page 7 Help

Choose Layout Cancel < Previous Next > Finish

Build Master Detail with:

Edit detail as tabular form on same page Edit detail on separate page





Master Table

Detail Table

Primary Key Source

Master Options

Layout

Page Attributes

Tab

Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail Page 7 Help

Identify Tabs Cancel < Previous Next >

Use this page to specify an optional tab set to display when master detail pages display. The standard tab you specify will be used on all master detail pages.

All tabs must be part of a tab set.

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.

Tab Set TS1 (Principal, Lista de contatos)

New Tab Label Cadastrar Contatos

Master Table
Detail Table
Primary Key Source
Master Options
Layout
Page Attributes
Tab
Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail Page 7 Help

Master Table

Detail Table

Primary Key Source

Master Options

Layout

Page Attributes (highlighted)

Tab

Confirm

Page Attributes

This page specifies master and detail page information. If the pages you specify do not exist, the pages will be created for you.

Master Table: RAFAEL.PESSOA
Detail Table: RAFAEL.TELEFONE

	* Page	* Page Title	* Region Title
Master	10	Lista Pessoas	Pessoa
Detail	11	Lista Telefone	Telefone

Breadcrumb: Breadcrumb

Create Breadcrumb Entry

Entry Name (Master Report): Pessoa
Entry Name (Master Detail Page): Telefone
Parent Entry: No parent breadcrumb entry
[No parent breadcrumb entry]

Select Parent Entry:

Name	Page
Principal	1

row(s) 1 - 1 of 1

5. P – Formulários

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 7 > Create Master Detail

Page 7 Help

Master Table

Detail Table

Primary Key Source

Master Options

Layout

Page Attributes

Tab

Confirm

Master Detail Confirmation

You have requested to create master detail pages with the following attributes. Please confirm your selections.

Application	101
Master Table	RAFAEL.PESSOA
Master Display Column(s)	ID NOME SEXO DATANASCIMENTO RUA NUMERO BAIRRO CEP FOTO IDCIDADE
Detail Table	RAFAEL.TELEFONE
Detail Display Column(s)	DDD TELEFONE TIPOTELEFONE
Navigate master record by	ID
Include master report?	Yes
Master Detail Layout	Two page master detail
Tab Set	TS1
Tab Label	Cadastrar Contatos

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

**Cadastro de compromisso, quero que ele visualize
o que ele tem que fazer no dia.**

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾

Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page

Page 2 Help

Create Page Cancel < Previous Next >

Application: 101 - Agenda

Select a page type:

Blank Page Multiple Blank Pages Report

Chart Form Wizard

Calendar Tree Login Page

Access Control Page Zero Map

Feedback Page

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page Page 2 Help

Create Page Cancel < Previous Next >

Page Define

Easy Calendar SQL Calendar

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Calendar

Page 2 Help

Create Calendar

Cancel < Previous Next >

Page Attributes

* Page Number: 14
* Page Name: Compromisso
* Region Template: Reports Region
* Region Name: Compromisso
Breadcrumb: - do not use breadcrumbs on page -
Display Type: Standard
 Include Custom Calendar

Tab (optional)
Table / View Owner
Date / Display Columns
Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Calendar

Page 2 Help

Create Calendar Cancel < Previous Next >

Page: 14

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.

Page Attributes

Tab (optional)

Table / View Owner

Date / Display Columns

Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Calendar

Page 2 Help

Create Calendar

Page: 14

* Table / View Owner: RAFAEL

* Table / View Name: COMPROMISSO(table)

(containing Date or Timestamp column)

Page Attributes

Tab (optional)

Table / View Owner

Date / Display Columns

Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Calendar

Page 2 Help

Create Calendar Cancel < Previous Next >

Specify the columns to be used in the calendar.

Page: 14
Owner: RAFAEL
Table / View Name: COMPROMISSO

* Date Column: DATA
* Display Column: COMPROMISSO

Page Attributes Tab (optional) Table / View Owner Date / Display Columns Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 2 > Create Page > Calendar

Page 2 Help

Page Attributes

Tab (optional)

Table / View Owner

Date / Display Columns

Confirm

Calendar Confirmation

Cancel < Previous Finish

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

Application	101
Page	14
Page Name	Compromisso
Region Title	Compromisso
Region Template	Reports Region
Display Type	Standard
Table / View Owner	RAFAEL
Table / View Name	COMPROMISSO
Date Column	DATA
Label Column	COMPROMISSO

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

Welcome: RAFAEL Logout

Compromisso

Weekly Daily < Previous Today Next >

September 2010						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31	01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	01	02

5. P – Formulários

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Button Page 14 Help

Create Button Cancel

Select a region for the button:
 Compromisso (1) 10

Button Region **Tasks**
Button Position Create Multiple Buttons
Button Attributes
Display Properties
Action When Clicked
Conditional Display

Existing Regions and Buttons

Application Express 4.0.1.00.03
Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Button

Page 14 Help

Create Button

Page: 14 - Compromisso
Region: Compromisso (1) 10

Position:

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

Existing Regions and Buttons

Cancel < Previous Next >

Button Region

Button Position

Button Attributes

Display Properties

Action When Clicked

Conditional Display

Application Express 4.0.1.00.03

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Button

Page 14 | | Help

Create Button

Page: 14 - Compromisso
Region: Compromisso

* Button Name: CRIAR COMPROMISSO

[Cancel] [Next] [Previous] [Apply] [Submit] [Delete] [Finish] [Create] [Reset]

* Label: Criar Compromisso

Button Style: Template Based Button

Button Template: Button

Button Attributes:

Button Region
Button Position
Button Attributes
Display Properties
Action When Clicked
Conditional Display

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Button

Page 14 Help

Create Button Cancel < Previous Next >

Page: 14 - Compromisso
Region: Compromisso
Button Name: CRIAR_COMPROMISSO

Position: Top of Region

[Top] [Close] [Edit] [Create] [Change] [Previous] [Next]

* Sequence: 80

Alignment: Right

Display Properties

Action When Clicked

Conditional Display

Buttons

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Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

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Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Button

Page 14 Help

Create Button Cancel < Previous Next > Create Button

Page: 14 - Compromisso
Region: Compromisso
Button Name: CRIAR_COMPROMISSO

Action: Redirect to Page in this Application

Page: 15

reset pagination for this page

Request:

Clear Cache: (comma separated page numbers)

Set these items: (comma separated name list)

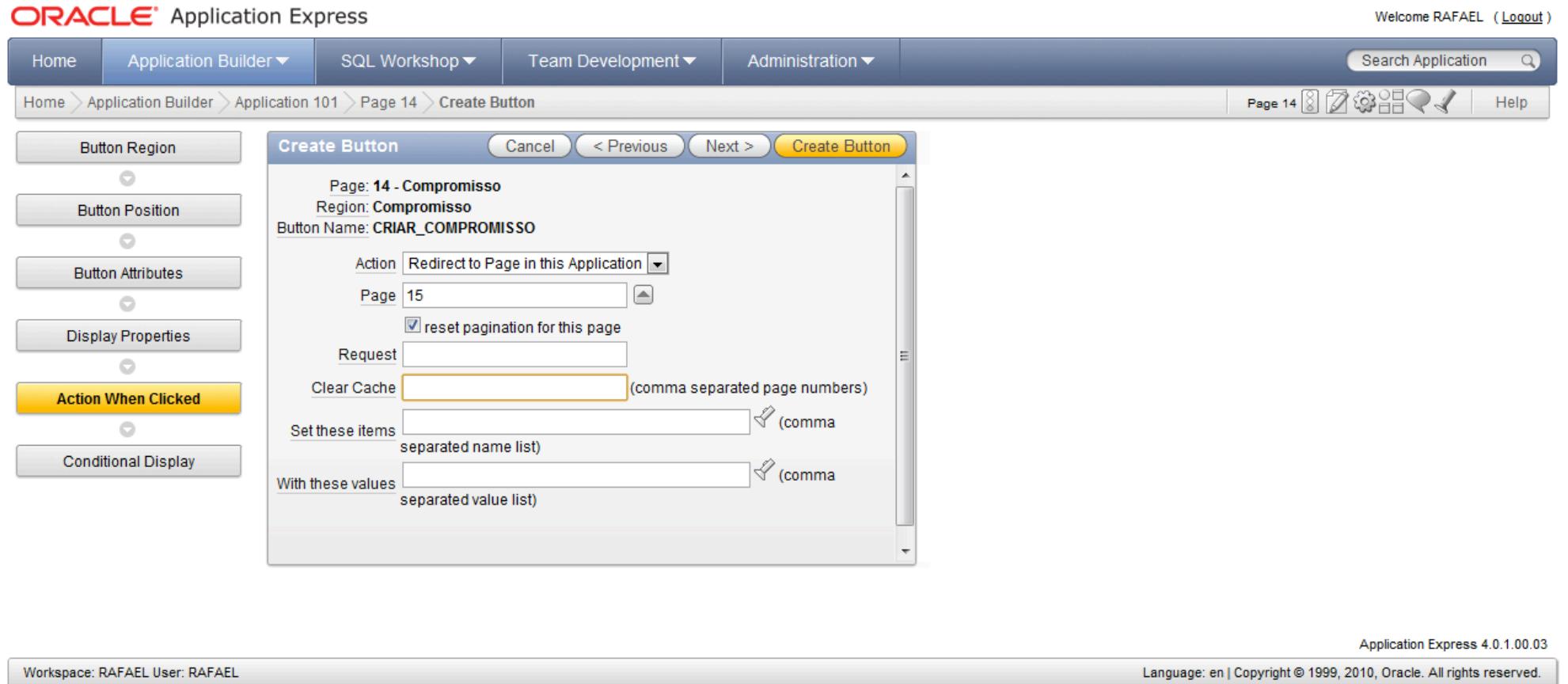
With these values: (comma separated value list)

Action When Clicked

Conditional Display

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ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾

Search Application

Home > Application Builder > Application 101 > Page 14 > Create Page

Page 14 Help

Create Page Cancel < Previous Next >

Application: 101 - Agenda

Select a page type:

Blank Page Multiple Blank Pages Report

Chart Form Wizard

Calendar Tree Login Page

Access Control Page Zero Map

Feedback Page

5. P – Formulários

ORACLE Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Page Page 14 Help

Create Page Cancel < Previous Next >

Page Define

Form on a Procedure Form on a Table or View Form on a Table with Report

Master Detail Form Tabular Form Form on a SQL Query

Summary Page Form on Web Service Form and Report on Web Service

Application Express 4.0.1.00.03

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table

Page 14 | Help

Create Form Cancel Next >

This wizard builds a form to update a single row in a database table or view. Select the schema owner of the database table or view.

* Table / View Owner RAFAEL

Table / View Owner

Table / View Name

Page and Region Attributes

Tab (optional)

Primary Key

Columns

Process Options

Branching

Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 | Help

Create Form Cancel < Previous Next >

Owner: RAFAEL

* Table / View Name

Table / View Owner

Table / View Name

Page and Region Attributes

Tab (optional)

Primary Key

Columns

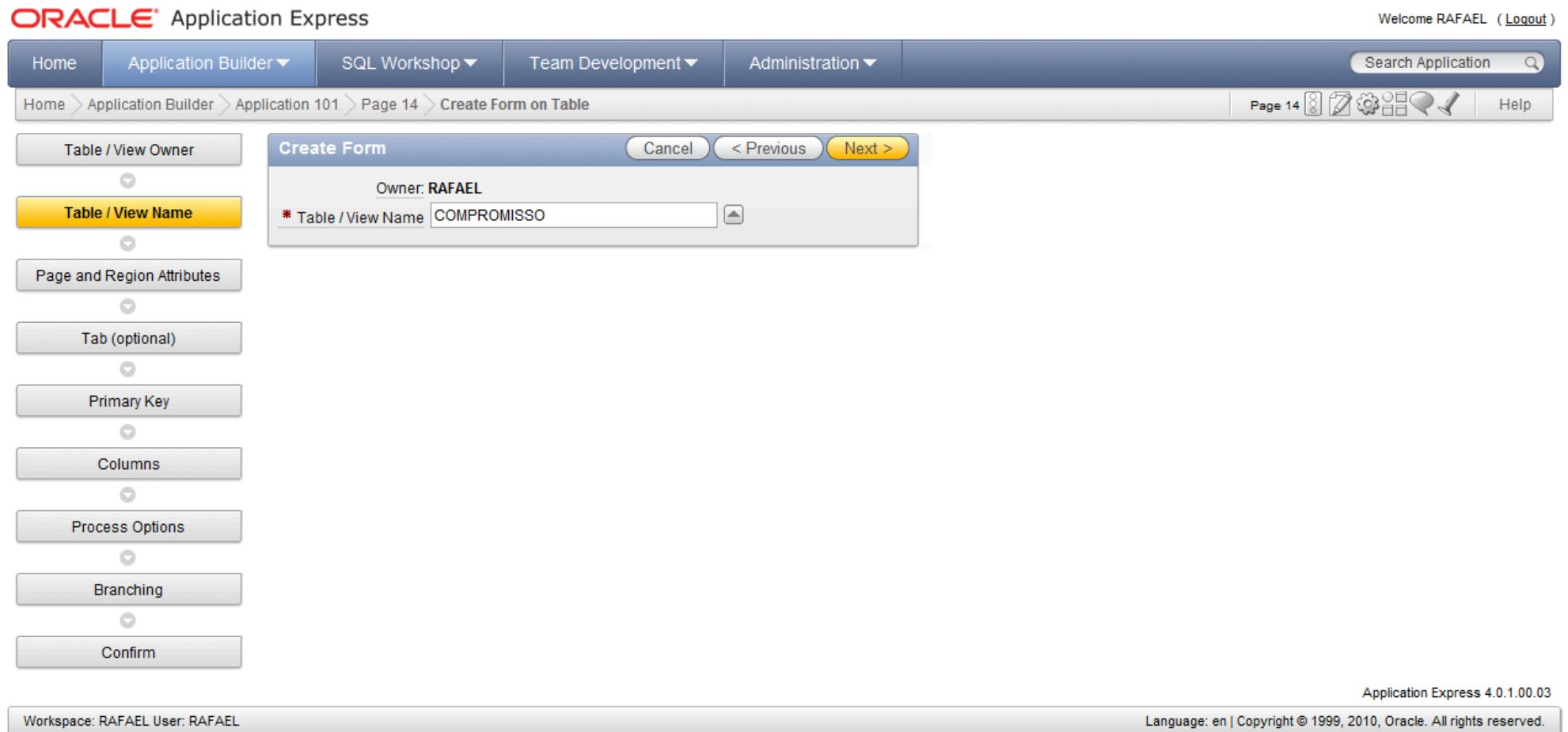
Process Options

Branching

Confirm

Application Express 4.0.1.00.03

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Table / View Owner

Table / View Name

Page and Region Attributes

Tab (optional)

Primary Key

Columns

Process Options

Branching

Confirm

Create Form

Cancel < Previous Next >

Specify page and region information. If the page you specify does not exist, the page will be created.

Owner: RAFAEL

Table / View Name: COMPROMISSO

* Page Number 15

* Page Name Cadastrar Compromisso

* Region Title Compromisso

* Region Template Form Region

Breadcrumb - do not add breadcrumb region to page -

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5. P – Formulários

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Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Page > Form on Table

Page 14 Help

Create Form Cancel < Previous Next >

Page: 15

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.

Table / View Owner

Table / View Name

Page and Region Attributes

Tab (optional)

Primary Key

Columns

Process Options

Branching

Confirm

Application Express 4.0.1.00.03

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Table / View Owner
Table / View Name
Page and Region Attributes
Tab (optional)
Primary Key
Columns
Process Options
Branching
Confirm

Create Form Cancel < Previous **Next >**

Select the Primary Key Column 1 and the Primary Key Column 2, if appropriate.

Page: 15
Owner: RAFAEL
Table / View Name: COMPROMISSO

* Primary Key Column 1: ID
Primary Key Column 2: - Select Primary Key 2 -

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL (Logout)

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Table / View Owner

Table / View Name

Page and Region Attributes

Tab (optional)

Primary Key

Columns

Process Options

Branching

Confirm

Create Form

Cancel < Previous Next >

Define the source for the primary key columns.

Owner: RAFAEL
Table / View Name: COMPROMISSO
Primary Key Column 1: ID

* Source Type

Existing trigger Custom PL/SQL function Existing sequence

* Sequence AGSEQ_COMPROMISSO

Primary Key

Select the method by which the primary key is populated.

Choose Existing Trigger if an existing trigger will be used to populate the primary key or if the user will be expected to enter the primary key value manually.

Choose Custom PL/SQL Function to define custom PL/SQL logic to generate the primary key value.

Choose Existing Sequence if an existing sequence will be used to generate the primary key.

Custom PL/SQL Function Example
Existing Triggers

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5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Table / View Owner
Table / View Name
Page and Region Attributes
Tab (optional)
Primary Key
Columns
Process Options
Branching
Confirm

Create Form Cancel < Previous Next >

Select the columns to include on the form.

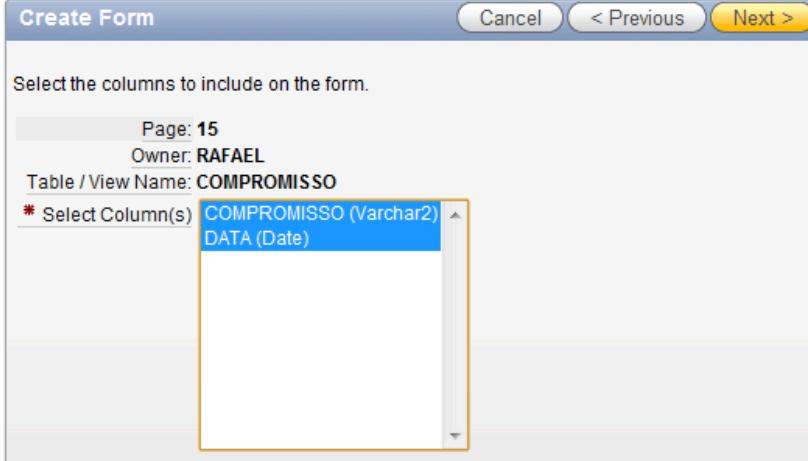
Page: 15
Owner: RAFAEL
Table / View Name: COMPROMISSO

* Select Column(s)

COMPROMISSO (Varchar2)
DATA (Date)

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Create Form Cancel < Previous Next >

Identify the process options and button display text for the form. For example, to prevent users from being able to delete from the form, choose No for the delete button option.

Page: 15
Owner: RAFAEL
Table / View Name: COMPROMISSO

Cancel Button Label:

Show Create Button: Yes Create Button Label:

Show Save Button: Yes Save Button Label:

Show Delete Button: Yes Delete Button Label:

Table / View Owner
Table / View Name
Page and Region Attributes
Tab (optional)
Primary Key
Columns
Process Options
Branching
Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Create Form Cancel < Previous Next >

Page: 15
Owner: RAFAEL
Table / View Name: COMPROMISSO

* After Page Submit and Processing Branch to Page 14

* When Cancel Button Pressed Branch to this Page 14

Table / View Owner
Table / View Name
Page and Region Attributes
Tab (optional)
Primary Key
Columns
Process Options
Branching
Confirm

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

5. P – Formulários

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Page 14 > Create Form on Table Page 14 Help

Table / View Owner

Form on Table Confirmation Cancel < Previous Finish

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

Application	101
Page	15
Page Name	Cadastrar Compromisso
Region Title	Compromisso
Region Template	Form Region
Table / View Owner	RAFAEL
Table / View Name	COMPROMISSO
Primary Key Column 1	ID
Primary Key Column 2	
Display Columns	COMPROMISSO DATA
Process Options	Insert,Update,Delete

Confirm

Application Express 4.0.1.00.03

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5. P – Formulários

Welcome: RAFAEL Logout

Principal | Lista de contatos | Cadastrar Contatos | Lista Estado | Lista Cidade | **Compromisso**

Compromisso

[Weekly](#) [Daily](#) [< Previous](#) [Today](#) [Next >](#) [Criar Compromisso](#)

September 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31	01	02	03	04
05	06	07	08	09	yuy	10
12	13	14	15	16	17	18
19	20	21	22	23	mini curso apex oioio	24
26	27	28	teste	29	30	01
						02

5. P – Formulários

Welcome: RAFAEL Logout

Compromisso

Compromisso

Data

6. P – Processamento de páginas

- **Gerenciamento de layout**
- **Lógica de controle**
- **Validações**
- **Ramificações**

- **Explorando**
 - **Itens de página**
 - **Itens de aplicação**

8. P – Navegação

Adicionar os formulários de cadastro de cidade e estado no menu principal.

Adicionar duas abas:

- **Lista estado**
- **Lista cidade**

8. P – Navegação

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Page 5 Page 5 Help

Page 5 Go Run Utilities Create

Updated: RAFAEL, 114 minutes ago
To do's: 0 Feedback: 0
Bugs: 0 Comments: 0

Page Rendering

Page
Page Name: Lista estado Template: Application default
Title: Lista estado Header Text:
HTML Header: Footer Text:
HTML Body: Build Option:
Help Text: No help is available for this Authorization: No
Page Group: Cached: No

Regions
Display Point: Page Template Body (3)
10 Estado [Interactive Report](#) [Saved Report](#)

Buttons
Region: Estado
30 [Create](#) Redirect to page 6

Items

Computations

Processes

Page Processing

Computations

Validations

Processes

Branches

Shared Components

Tabs

Lists of Values

Breadcrumbs

Lists

Templates
Page One Level Tabs - Right Sidebar (optional / table-based)
Region Region without Buttons and Titles
Button Button

Theme
5. Sunrise

Security

Navigation Bar
200. [Logout](#) Redirect To &LOGOUT_URL.

8. P – Navegação

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder SQL Workshop Team Development Administration Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs Page 5 Help

Tabs Manage Tabs Edit Standard Tabs Edit Parent Tabs Conditional Display Utilization History

Click on a tab name to make a tab current. Once you select a tab you will be able to change that tab's properties.

Selected Pseudo Parent Tab: TS1
Select Standard Tab: Principal
Tab Current for Page: 1-Principal

TS1 Add

Principal Lista de contatos Cadastrar Contatos Add

1 Principal

This page displays a graphical representation of the Tabs defined in your application.
Use Standard Tabs to link users to a specific page. A Parent Tab functions as a container to hold a group of Standard Tabs. Parent Tabs give users another level of navigation as well as a sense of place within the application.
Click Add in the upper row to add Parent Tabs. Click Add in the lower row to add Standard Tabs.

Parent Tab Tasks
No parent tabs exist.

Standard Tab Tasks
Rename Standard Tab Set
Resequence display order
Associate Page(s) with selected Standard Tab
Create New Standard Tab
Create New Standard Tab Set

Application Express 4.0.1.00.03

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8. P – Navegação

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs > Create Standard Tab

Page 5 Help

New or Existing Tab Set

Tab Set

Tab Parent

Tab Name

Existing Tab Sets

Create Standard Tab

Cancel < Previous Next >

Tabs are part of a tab set. Use this page to specify a tab within the tab set.

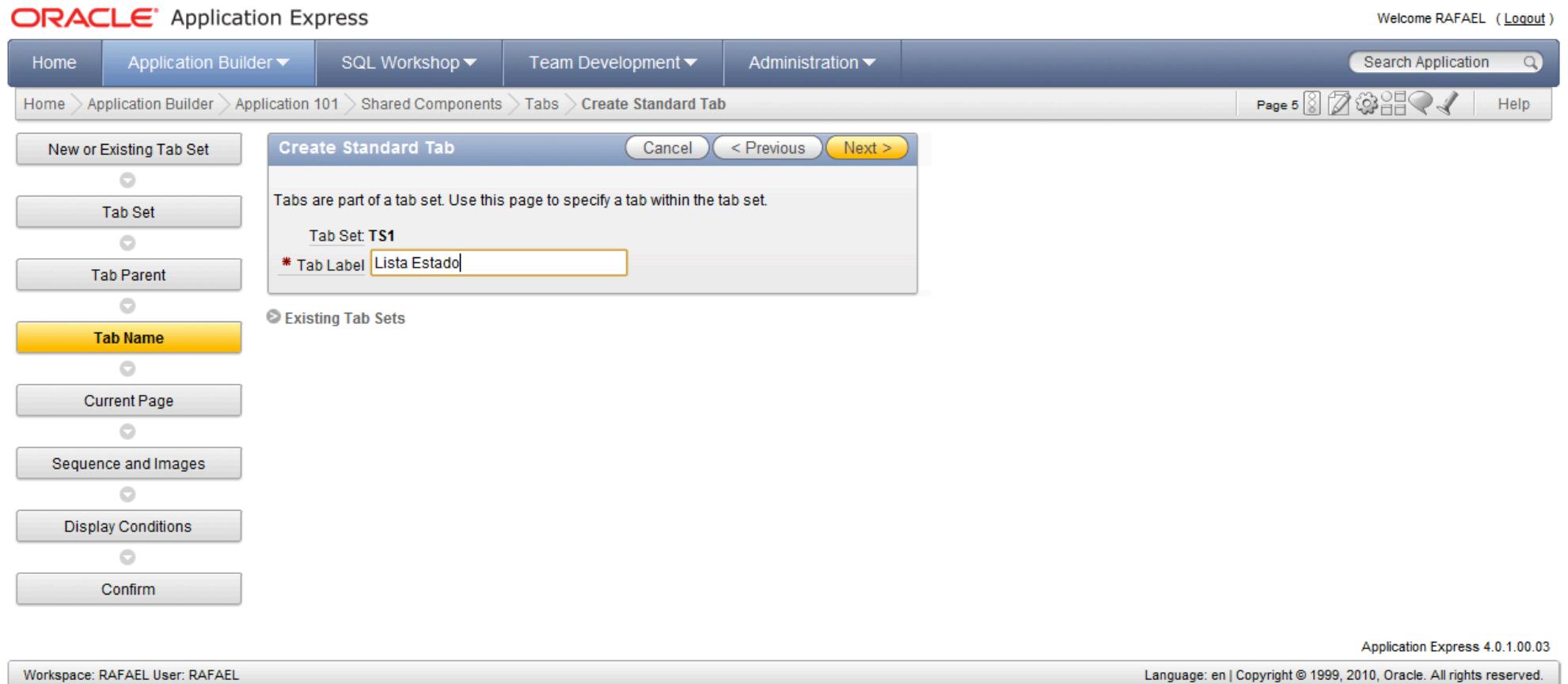
Tab Set: TS1

* Tab Label

Application Express 4.0.1.00.03

Workspace: RAFAEL User: RAFAEL

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8. P – Navegação

ORACLE® Application Express Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs > Create Standard Tab

Page 5 Help

New or Existing Tab Set **Create Standard Tab** Cancel < Previous **Next >**

You must define a "current page" for this tab. When the user clicks on the tab, the application will branch to this page.

Application: 101

* Tab Current for Page

Tab Set

Tab Parent

Tab Name

Current Page

Existing Tab Sets

Existing Pages

Sequence and Images

Display Conditions

Confirm

Application Express 4.0.1.00.03

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8. P – Navegação

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs > Create Standard Tab

Page 5 Help

New or Existing Tab Set

Tab Set

Tab Parent

Tab Name

Current Page

Sequence and Images

Display Conditions

Confirm

Create Standard Tab

Cancel < Previous Next >

Identify the tab sequence and optional image attributes. If no images are provided the tab will be displayed as text.

Tab Set: TS1

Label: Lista Estado

Sequence **40**

Current Image

Non Current Image

Image Attributes

Tab Set

Application Express 4.0.1.00.03

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8. P – Navegação

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs > Create Standard Tab

Page 5 Help

New or Existing Tab Set

Tab Set

Tab Parent

Tab Name

Current Page

Sequence and Images

Display Conditions

Confirm

Create Standard Tab

Cancel < Previous Next >

Tab Name: Lista Estado
Tab Set: TS1
Current for Page: 5

Condition Type: - No Display Condition -
[PL/SQL] [item=value] [item not null] [request=e1] [page in] [page not in] [exists] [none] [never]
Build Option: - No Build Option -

Existing Page Items

Application Express 4.0.1.00.03

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8. P – Navegação

ORACLE® Application Express

Welcome RAFAEL ([Logout](#))

Home Application Builder ▾ SQL Workshop ▾ Team Development ▾ Administration ▾ Search Application

Home > Application Builder > Application 101 > Shared Components > Tabs > Create Standard Tab

Page 5 Help

New or Existing Tab Set
Tab Set
Tab Parent
Tab Name
Current Page
Sequence and Images
Display Conditions
Confirm

Create Standard Tab [Cancel](#) [< Previous](#) **Create Tab**

✓ Confirm Create-Standard Tab in Application 101.
Page 5 will use the existing tab set "TS1".

Tab Set	TS1
Tab Text	Lista Estado
Current Page	5
Parent Tab Set	
Parent Tab Set New	
Parent Tab Text	-
Tab Sequence	40
Current Image	
Non Current Image	
Image Attributes	
Display Condition	
Display Condition Text	

Application Express 4.0.1.00.03

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8. P – Navegação

- **Fazer a mesma coisa para o Cadastro da Cidade.**