# Snap2

# apex-round-128.pdf

# **Oracle Application Express: Developing Database Web Applications**

# **Hands-On-Labs Guide**

# **Unit 3: Creating a Database Application**

This exercise includes two hands-on-labs.

**HOL 3-1 Creating a Database Application from Scratch**: In this hands-on-lab, you will create a database Web application, Demo Projects. You will extend and improve this application later.

**HOL 3-2 Creating a Database Application from a Spreadsheet**: In this hands-on lab, you will use a spreadsheet to create a database Web application, Budget App. You do not extend this application but will use in a later exercise.

## **HOL 3-1: Creating a Database Application from Scratch**

In this lab, you create the initial application using the Create Application wizard to define multiple pages. Now that you have created the underlying tables, you are ready to create a desktop application. You add reports and forms for the tables you created.  
  
Generally, when developing an application, you will not know all of the pages required at the beginning. Therefore, you will only generate a select number of pages initially, and then use the wizard to add additional pages as required. However, for this exercise you will generate most of the pages required for the application up front.

1. Using the Create Application Wizard, create the **Demo Projects** application.   
   Navigate to **App Builder** and then click **Create**.  
     
   A screenshot of a social media post

   Description automatically generated
2. You want to create a new application. Click **New Application**.  
     
   A screenshot of a social media post

   Description automatically generated
3. For Name, enter **Demo Projects**. For Appearance, click the **Set Appearance** icon.  
     
   A screenshot of a cell phone

   Description automatically generated
4. In the Appearance dialog, perform the following steps:
5. For Theme Style, select **Vita – Red**.
6. For Application Icon, click **Choose New Icon**. Click any colored circle at the top and choose an application icon. Then click **Set Application Icon**.
7. Click **Save Changes**.

A screenshot of a cell phone

Description automatically generated

1. Next, add Report and Form page types for the following tables:

* **DEMO\_PROJ\_TEAM\_MEMBERS**
* **DEMO\_PROJECTS**
* **DEMO\_PROJ\_MILESTONES**
* **DEMO\_PROJ\_TASKS**

Click **Add Page.  
  
A screenshot of a cell phone

Description automatically generated**

1. In the Add Page dialog, click **Interactive Report**.  
     
   A screenshot of a cell phone

   Description automatically generated
2. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.

* Page Name: **DEMO\_PROJ\_TEAM\_MEMBERS**.
* Table or View: **DEMO\_PROJ\_TEAM\_MEMBERS**.
* **Include Form** checkbox

A screenshot of a cell phone

Description automatically generated

1. Add Report and Form page type for the DEMO\_PROJECTS table.  
   Click **Add Page**.  
     
   A screenshot of a cell phone

   Description automatically generated
2. In the Add Page dialog, click **Interactive Report**.
3. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.

* Page Name: **DEMO\_PROJECTS**.
* Table or View: **DEMO\_PROJECTS**
* **Include Form** checkbox

1. Add Report and Form page type for the DEMO\_PROJ\_MILESTONES table.  
   Click **Add Page**.
2. In the Add Page dialog, click **Interactive Report**.
3. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.

* Page Name: **DEMO\_PROJ\_MILESTONES**
* Table or View: **DEMO\_PROJ\_MILESTONES**
* **Include Form** checkbox

1. Add Report and Form page type for the DEMO\_PROJ\_TASKS table.  
   Click **Add Page**.
2. In the Add Page dialog, click **Interactive Report**.
3. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.

* Page Name: **DEMO\_PROJ\_TASKS**
* Table or View: **DEMO\_PROJ\_TASKS**
* **Include Form** checkbox

1. Click **Check All** next to Features.  
     
   A screenshot of a cell phone

   Description automatically generated
2. Under Settings, select **Advanced Settings**.  
     
   A screenshot of a cell phone

   Description automatically generated
3. Enter / select the following in advanced settings and then click **Save Changes**.

* Short Description - **Maintain project details**.
* Description - **This application is used to maintain project details for the team. Projects include milestones, where you can define due dates. Tasks can be defined against a milestone or directly against the project**.
* Add "Built with APEX" to Footer: Yes

A screenshot of a cell phone

Description automatically generated

1. Click **Create Application**. Notice the application creation progress.
2. The Demo Projects application is now created. Click **Run Application**.  
     
   A screenshot of a cell phone

   Description automatically generated
3. Log in using your Workspace **username** and **password**. Click **Sign In**.  
     
   A screenshot of a cell phone

   Description automatically generated
4. Your screen should look like the following:  
     
   A screenshot of a cell phone

   Description automatically generated

## **HOL 3-2: Creating a Database Application from a Spreadsheet**

In this lab, you use a spreadsheet to create a database application.

1. Navigate to **App Builder** and click **Create**.  
     
   A screenshot of a cell phone

   Description automatically generated
2. Select **From a File**.  
     
   A screenshot of a cell phone

   Description automatically generated
3. Navigate to your working directory. Drag **budget.csv** and drop it in to the Load Data dialog.  
     
   A screenshot of a social media post

   Description automatically generated
4. Enter **Project\_Budget** for Table Name.   
   Click in the **Error Table Name** field. Notice that the error table name is automatically populated.  
     
   A screenshot of a social media post

   Description automatically generated
5. Click **Configure**.   
   You now see **Columns to Load**. Verify the data types for each of the columns. For example, make sure that START\_DATE and END\_DATE columns have DATE Data Type.   
   You do not have any changes to save. Click **X** to close the Configure dialog.  
     
   A screenshot of a cell phone

   Description automatically generated
6. Now, click **Load Data**.  
     
   A screenshot of a social media post

   Description automatically generated

1. The PROJECT\_BUDGET table is created with 73 rows. Now, click **Create Application**.  
     
   A screenshot of a cell phone

   Description automatically generated
2. For Name, enter **Budget App**.  
   Notice that the Home, Dashboard, Faceted Search, Interactive Report with Form, and Calendar pages are created by default.  
     
   A screenshot of a cell phone

   Description automatically generated
3. For Features, click **Check All**.   
     
   A screenshot of a cell phone

   Description automatically generated
4. Now, click **Create Application**.
5. Click **Run Application**.
6. Enter your Workspace **Username** and **Password**. Click **Sign In**.
7. Your application should look like the screenshot below:  
     
   A screenshot of a cell phone

   Description automatically generated
8. Review the Budget App application that you just created. Check out all the pages that were created by default. For example, the Dashboard page looks like the screenshot below:   
     
   A screenshot of a cell phone

   Description automatically generated

A screenshot of a cell phone

Description automatically generated