



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.

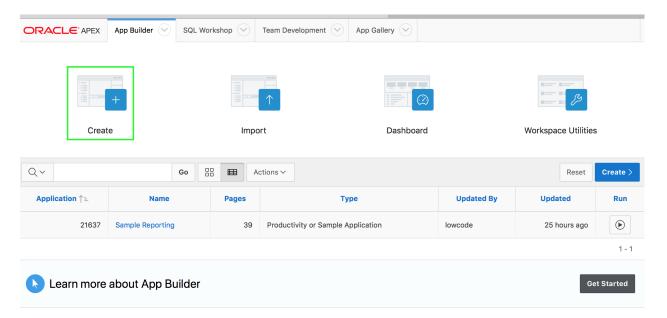
HOL 3-2 Creating a Database Application from a Spreadsheet: In this hands-on lab, you will use a spreadsheet to create a database Web application, Budget App. You do not extend this application but will use in a later exercise.

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.

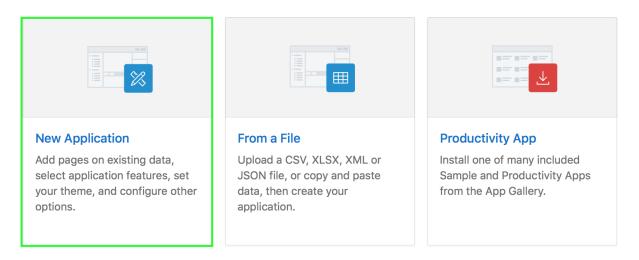
Generally, when developing an application, you will not know all of the pages required at the beginning. Therefore, you will only generate a select number of pages initially, and then use the wizard to add additional pages as required. However, for this exercise you will generate most of the pages required for the application up front.

1. Using the Create Application Wizard, create the **Demo Projects** application. Navigate to **App Builder** and then click **Create**.



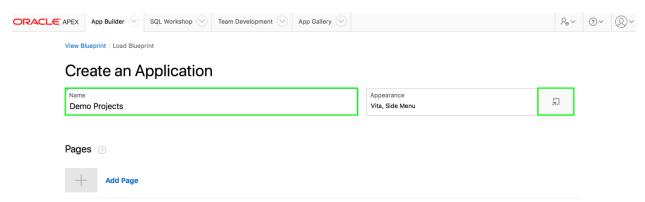
2. You want to create a new application. Click **New Application**.

Create an Application



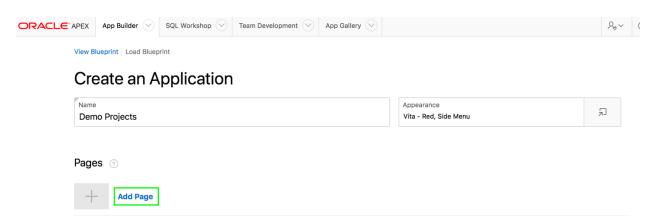
Websheet Quick SQL Copy Application Help

3. For Name, enter **Demo Projects**. For Appearance, click the **Set Appearance** icon.

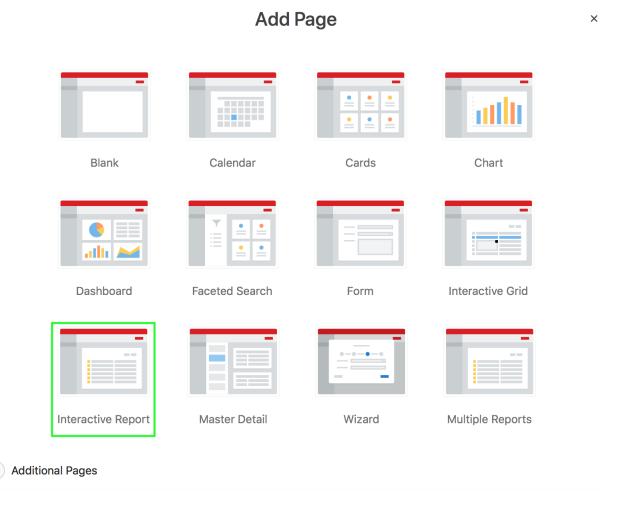


- 4. In the Appearance dialog, perform the following steps:
 - a) For Theme Style, select **Vita**
 - b) Click Save Changes.
- 5. Next, add Report and Form page types for the following tables:
 - DEMO_PROJ_TEAM_MEMBERS
 - DEMO_PROJECTS
 - DEMO_PROJ_MILESTONES
 - DEMO_PROJ_TASKS

Click Add Page.



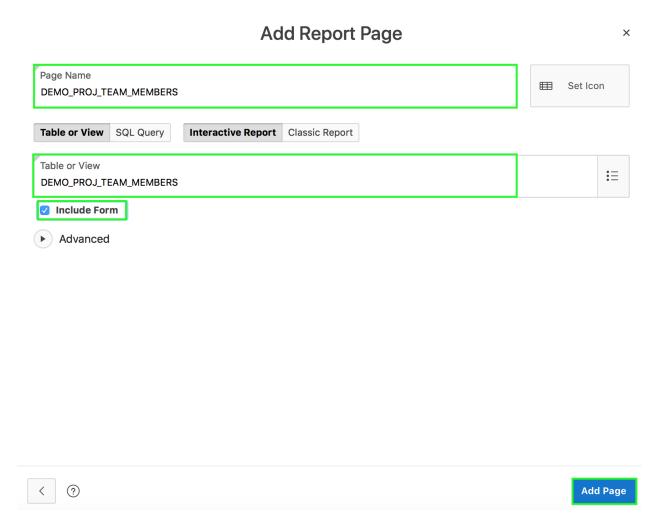
6. In the Add Page dialog, click **Interactive Report**.



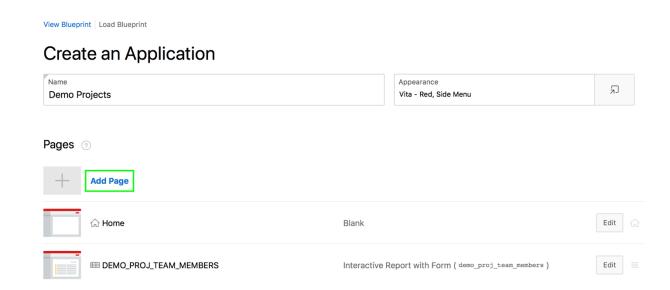
- 7. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.
 - Page Name: DEMO_PROJ_TEAM_MEMBERS.

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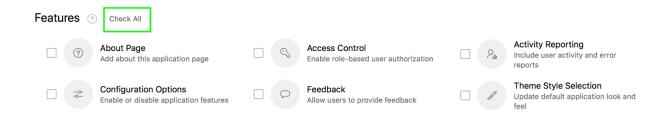
- Table or View: **DEMO_PROJ_TEAM_MEMBERS**.
- **Include Form** checkbox



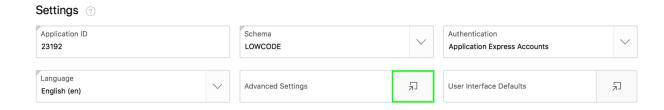
8. Add Report and Form page type for the DEMO_PROJECTS table. Click **Add Page**.



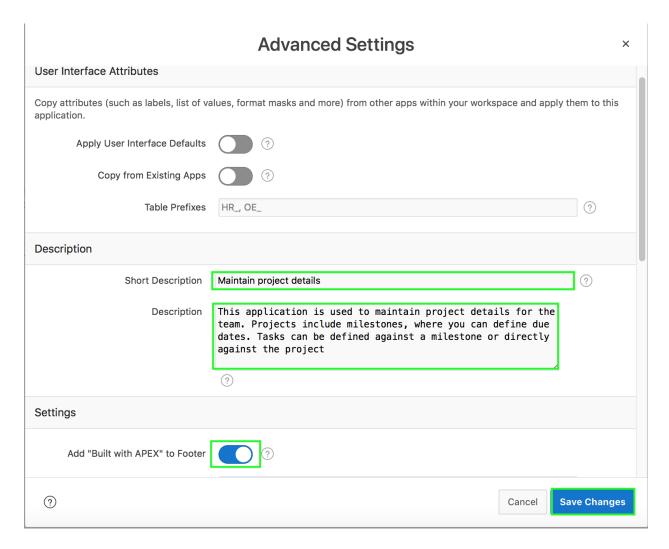
- 9. In the Add Page dialog, click **Interactive Report**.
- 10. In the Add Report Page dialog, select / enter the following and then, click **Add Page**.
 - Page Name: **DEMO_PROJECTS**.
 - Table or View: **DEMO_PROJECTS**
 - **Include Form** checkbox
- 11. Add Report and Form page type for the DEMO_PROJ_MILESTONES table. Click **Add Page**.
- 12. In the Add Page dialog, click **Interactive Report**.
- 13. 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
- 14. Add Report and Form page type for the DEMO_PROJ_TASKS table. Click **Add Page**.
- 15. In the Add Page dialog, click **Interactive Report**.
- 16. 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
- 17. Click **Check All** next to Features.



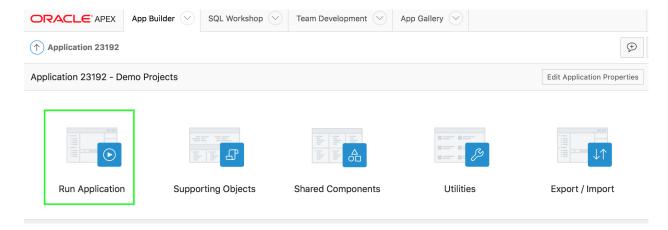
18. Under Settings, select Advanced Settings.



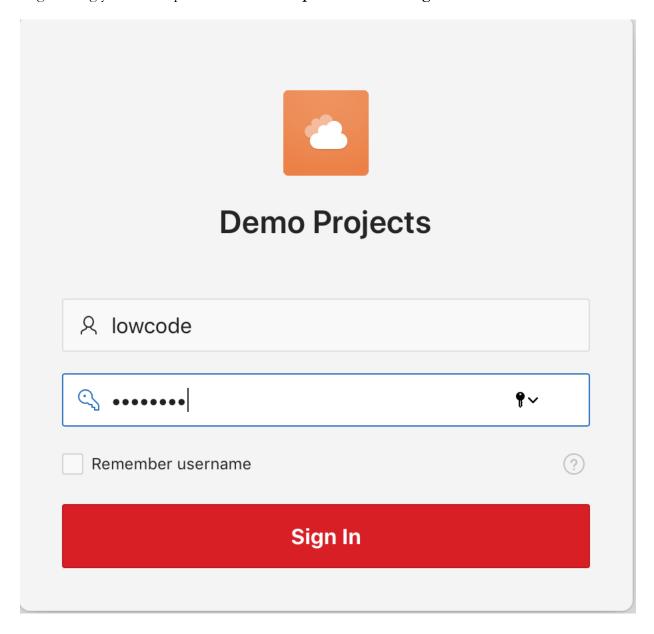
- 19. Enter / select the following in advanced settings and then click **Save Changes**.
 - Short Description Maintain project details.
 - Description This application is used to maintain project details for the team. Projects include milestones, where you can define due dates. Tasks can be defined against a milestone or directly against the project.
 - Add "Built with APEX" to Footer: Yes



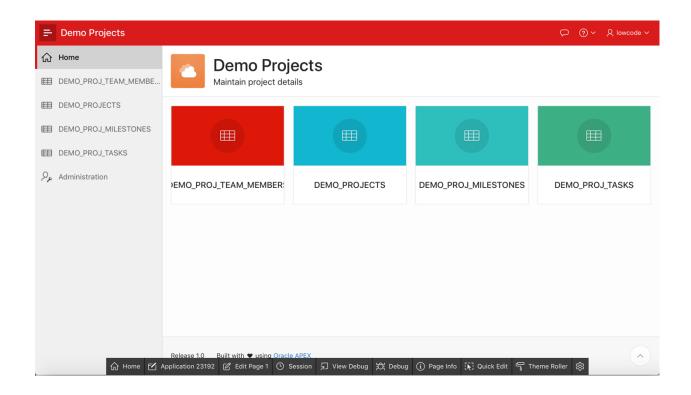
- 20. Click **Create Application**. Notice the application creation progress.
- 21. The Demo Projects application is now created. Click **Run Application**.



22. Log in using your Workspace username and password. Click Sign In.



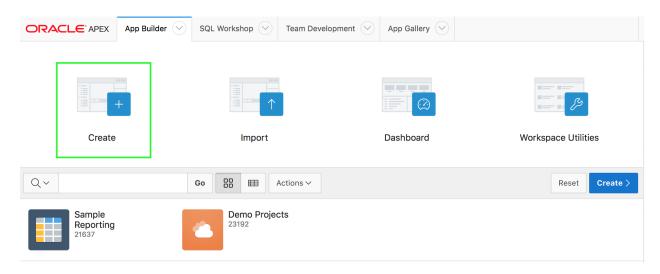
23. Your screen should look like the following:



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

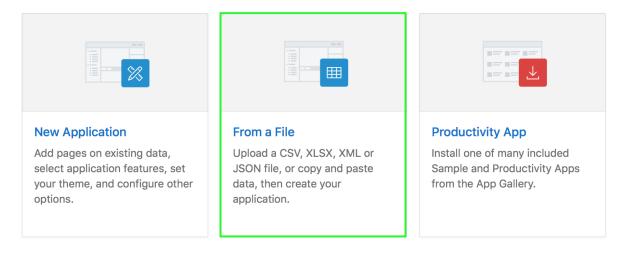
In this lab, you use a spreadsheet to create a database application.

1. Navigate to **App Builder** and click **Create**.



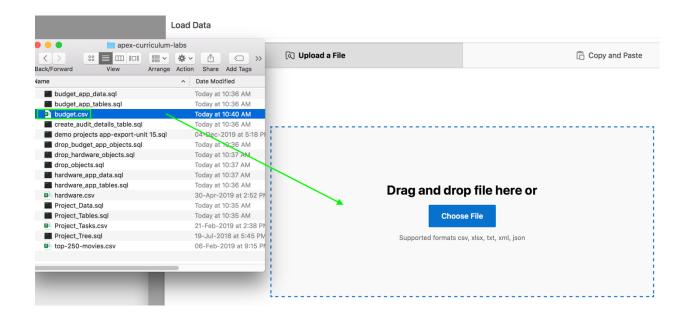
2. Select From a File.

Create an Application

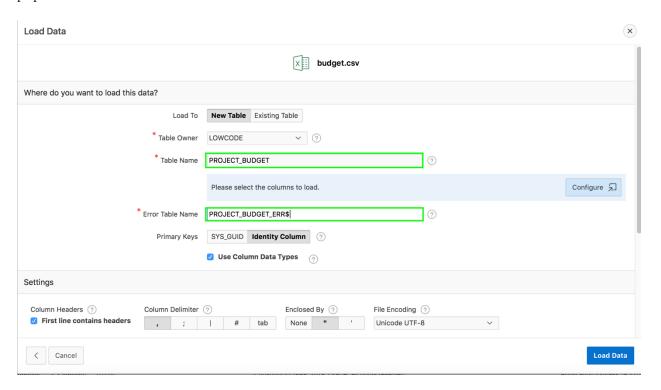


Websheet Quick SQL Copy Application Help

3. Navigate to your working directory. Drag **budget.csv** and drop it in to the Load Data dialog.

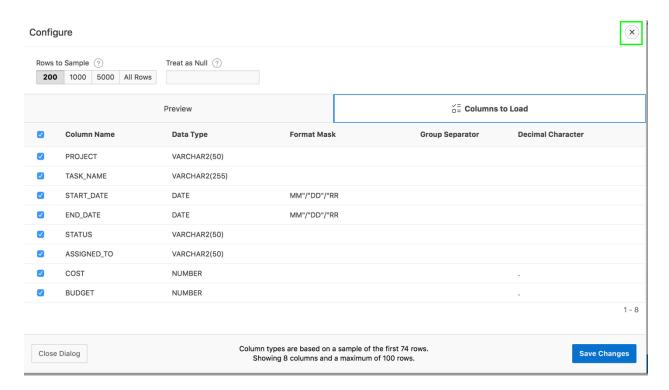


Enter Project_Budget for Table Name.
 Click in the Error Table Name field. Notice that the error table name is automatically populated.

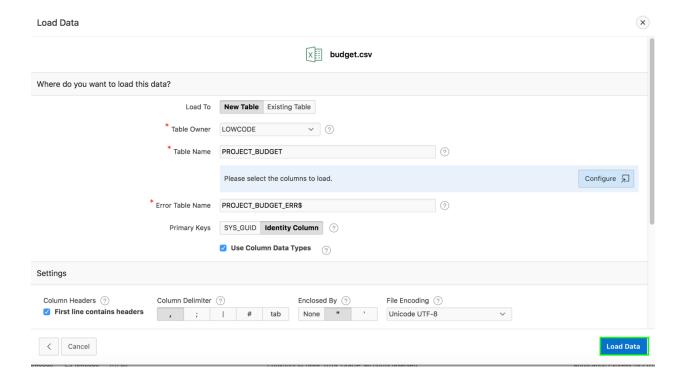


5. Click **Configure**.

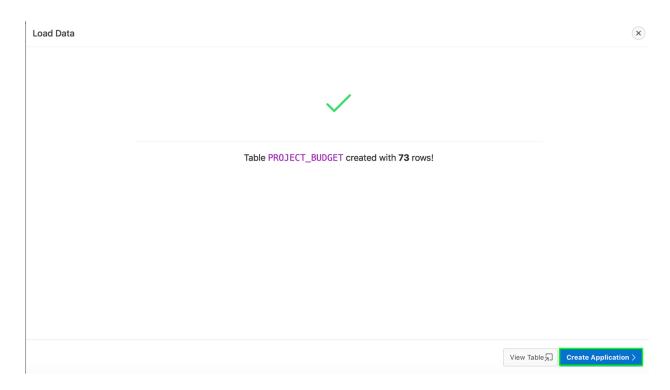
You now see **Columns to Load**. Verify the data types for each of the columns. For example, make sure that START_DATE and END_DATE columns have DATE Data Type. You do not have any changes to save. Click **X** to close the Configure dialog.



6. Now, click Load Data.

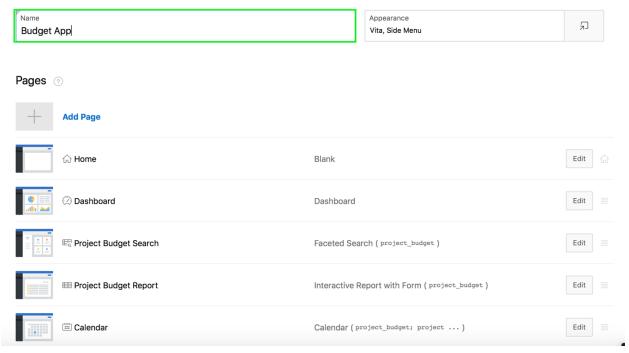


7. The PROJECT_BUDGET table is created with 73 rows. Now, click **Create Application**.

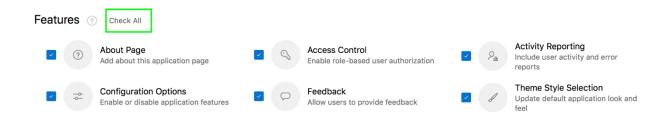


8. For Name, enter **Budget App**. Notice that the Home, Dashboard, Faceted Search, Interactive Report with Form, and Calendar pages are created by default.

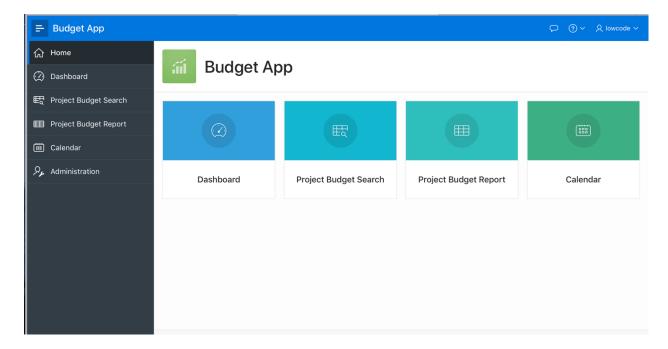
Create an Application



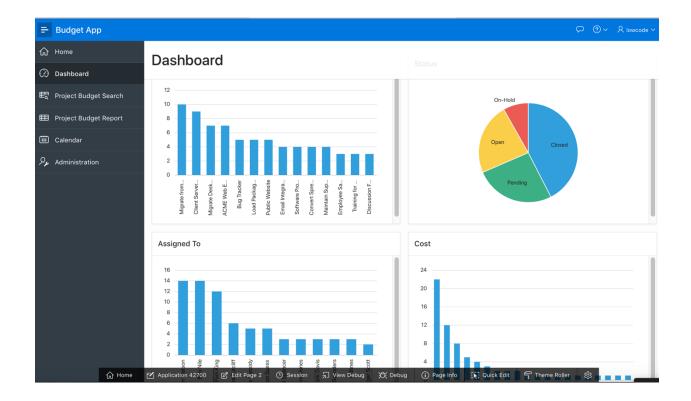
9. For Features, click Check All.



- 10. Now, click **Create Application**.
- 11. Click Run Application.
- 12. Enter your Workspace Username and Password. Click Sign In.
- 13. Your application should look like the screenshot below:



14. 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:



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