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Lab 147: Inserting Data

🔗 Link: https://awsrestart.instructure.com/courses/1632/modules/items/886877

Lab Overview

Scenario

As your design plan has come together with solid input from the customer and your planning phase of the process, you have noted that it is time to insert some data into your database. The loyalty spreadsheet that has been provided has the customer's ID number, loyalty number, points available, and other detailed information about the customer. You need to create a database table and insert this information into it from the csv file provided.

Objectives

In this lab, you will:

- Create the table for the customer loyalty spreadsheet

- Insert the provided csv file into the table you create

Exercise 1: Create a Table and Add Data

Before you start inserting data into the database, you need to create the **loyalty** table and insert a template line to start the table off with generic information.
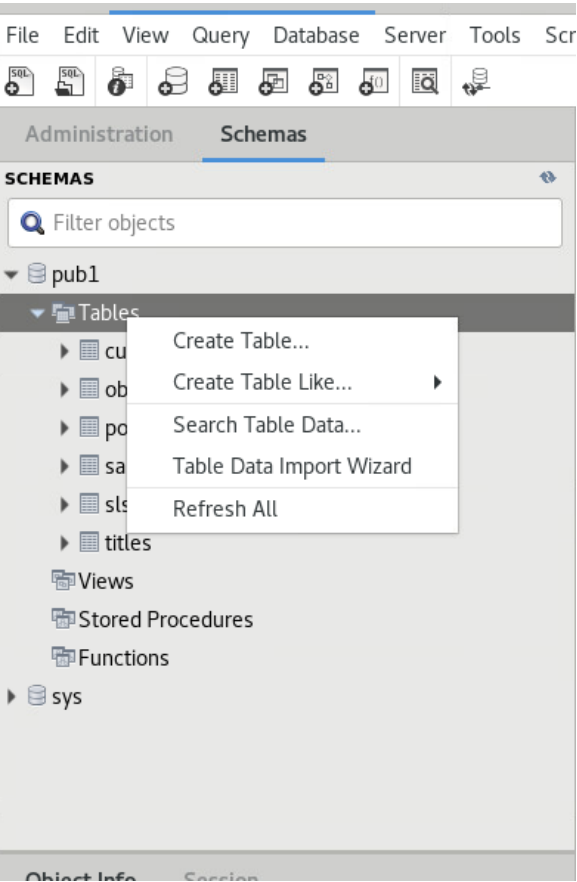
TODO

Using MySQL Workbench, create a new table named **loyalty** in the **pub1** database and add the following data into the table.

cust_id	loyalty_number	phone	email	name	points
0	8675309	800-867-5309	eightsixSeven@five3O9.com	Jenny Martha	100

Steps

1. Ensure that you are logged into the workspace and have MySQL Workbench open and are connected to the **pub1** database.

2. Right-click the **Tables** menu in Schemas box of MySQL Workbench, and click **Create Table**.

3. Select inside the **Name** field text box and type **loyalty** to change the name of the table.

4. Below the **Name** field, select the first line in the **Column Name** column. Type **cust_id** to add the first column.

5. Select the first line in the **Datatype** column and choose **INT** as the appropriate data type.

6. For **cust_id** column only, select **PK** to represent primary key and **NN** to represent not null.

7. Repeat ### Steps 4–6 for the **loyalty_number**, **phone**, **email**, **name**, and **points** columns using the predetermined data types.

8. In the bottom right corner of Workbench, click **Apply** to complete the table creation wizard.

9. Review the SQL Script to ensure that you have listed the table columns and data types correctly; then click **Apply** and close the pane.

10. In the Schemas pane, right-click and select the **Refresh All** menu option to populate the new table.

11. Right-click the **loyalty** table and select the **Select Rows – Limit 1000** option.

12. Click the **NULL** value in the **cust_id** column within the Result Grid window.

13. Type **0** and click in the **loyalty_number** column.

14. Type **8675309** in the **loyalty_number** column; then click in the **phone** column.

15. Fill out the remaining column information from the following table.

cust_id	loyalty_number	phone	email	name	points
0	8675309	800-867-5309	eightsixSeven@five3O9.com	Jenny Martha	100

Example View

After you have entered all the data, your screen should look similar to the following figure.

Note: To see the entire field, hover the mouse between table column names until a double error appears. Then click and drag the field to make it large enough to view your entries.

Exercise 2: Import Data from a CSV File

The loyalty csv file contains customer data with loyalty points already set up. Now that you have the initial table created for the loyalty customers and some template data set up, use the Data Import Wizard, from the **Workbench Table** menu to input the data into the table.
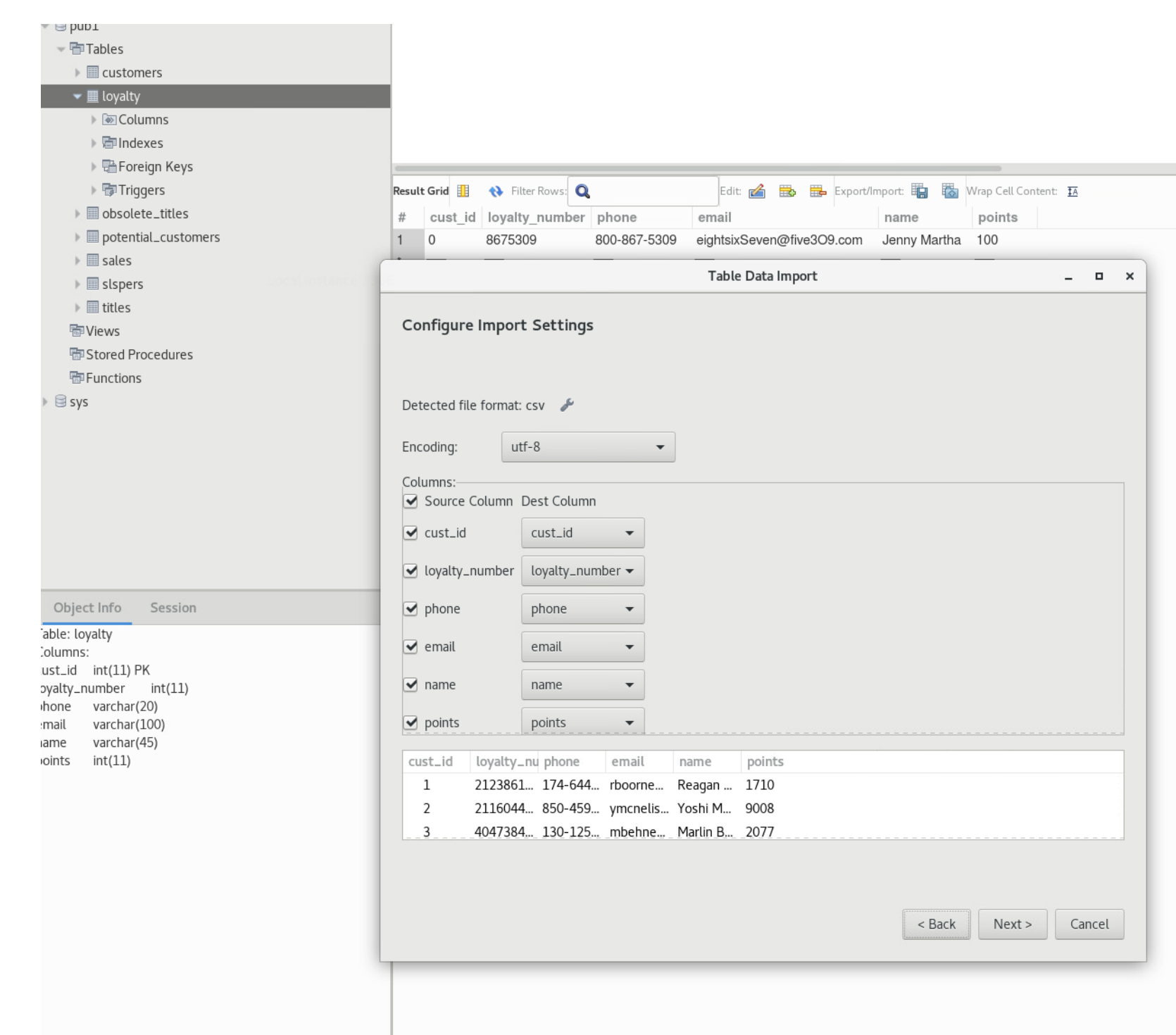
TODO

Use workbench to insert additional data from **work / loyalty.csv** that you extracted in the initial setup activity.

> Helpful Hint
>
> You may have to go up a level above your home directory to see the **work** directory.

Steps

1. Right-click the loyalty table and select the **Table Data Import Wizard** option.

2. Click **Browse**, browse to the **work** directory and select your csv file to import, and click **Open**, then click **Next**.

3. Confirm that **pub1.loyalty** table is selected in the drop down menu; then click **Next**.

4. In the Configure Import Settings portion of the Table Data Import wizard, verify that the source columns match up to the appropriate destination columns and click **Next**.

5. Click **Next** through the Table Data Import wizard dialog boxes, accepting all options, to execute the import of the csv file.