

# Lab 149: Selecting Data from a Database

#### **Lab Overview**

#### Scenario

Inventory management is one of the tasks that you have been asked to support with your database from your client, the Canal House Books store. You have been provided an inventory report that can be added to the SQL database. Using this report, identify items that need to be ordered or removed from stock.

### **Objectives**

In this lab, you will:

- Import the inventory report table
- Find items that are out of stock to reorder them from the inventory table
- Locate items that are not selling to remove them from the inventory table

## **Exercise 1: Import Inventory CSV**

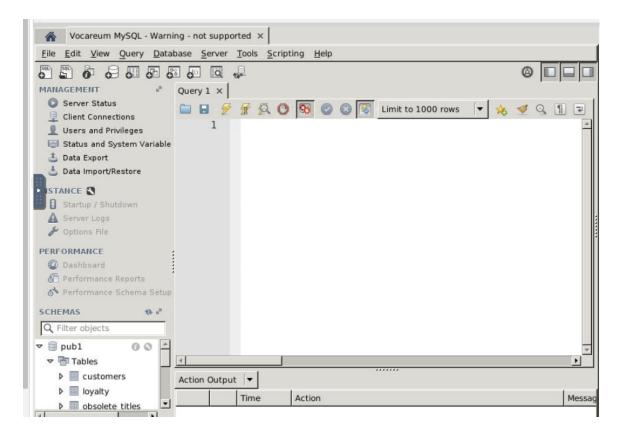
The store has kept track of books sold over the past few years and wants to use this to inform inventory business decisions quickly. Import the csv file into a new table in your database, **pub1**.

#### **TODO**

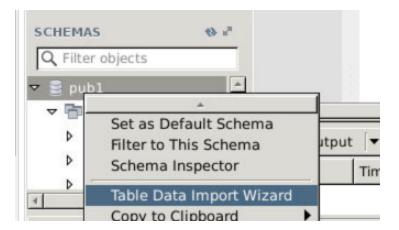
Insert the inventory report from work/InventoryReport.csv into the database using the table name inventory.

#### Steps

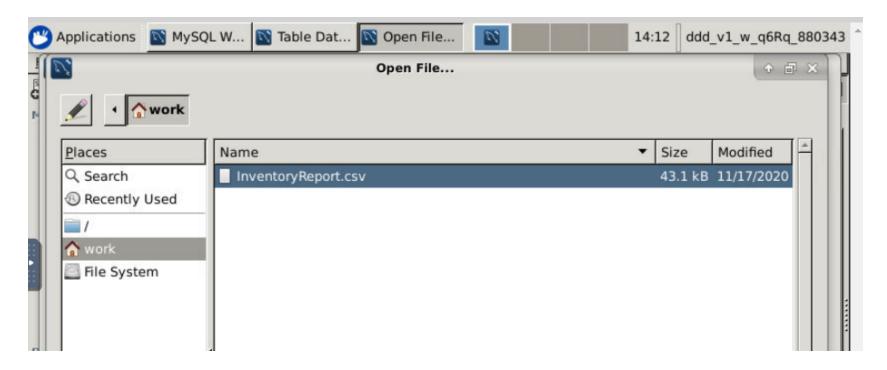
1. Ensure that you are logged into the workspace and have MySQL Workbench open and are connected to the **pub1** database.



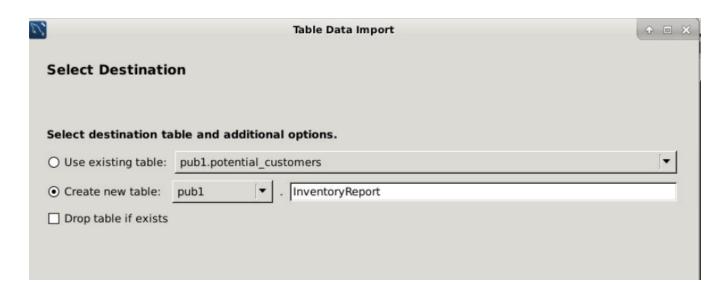
2. Right click the Tables tab in pub1 and select Table Data Import Wizard.



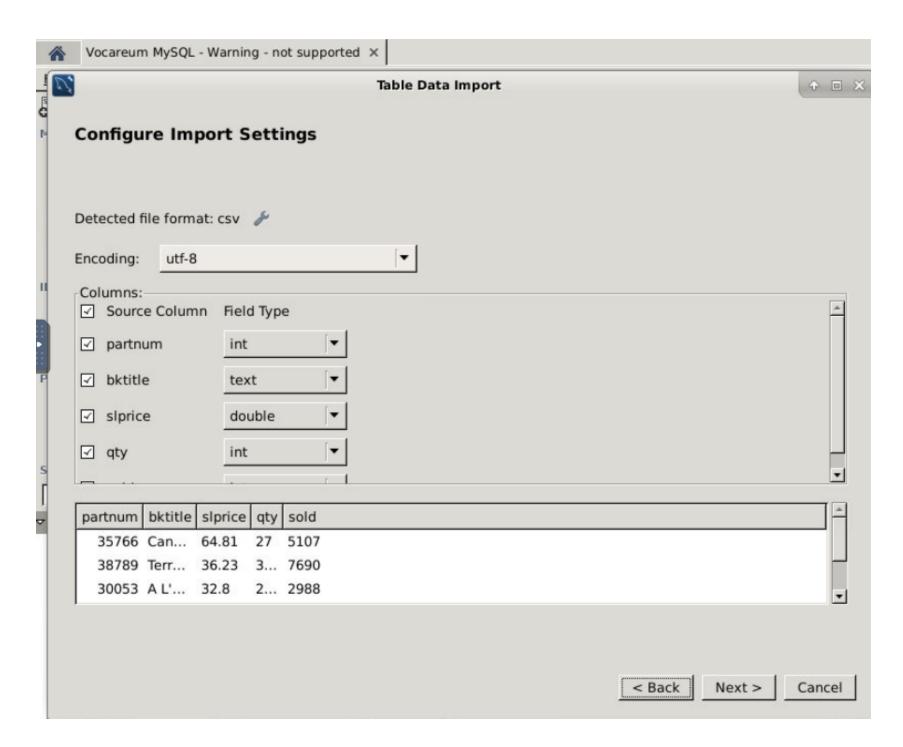
3. Click **Browse** and browse to the path to select your **work/InventoryReport.csv** file to import. Click **Open**; then click **Next**.



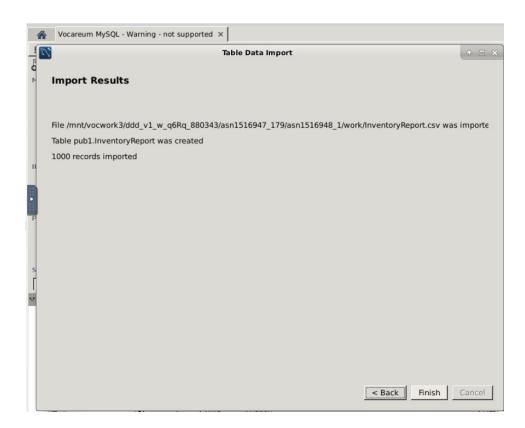
4. Next to **Create new table**, ensure **pub1** is selected. Type **inventory** into the **name** field and click **Next**.



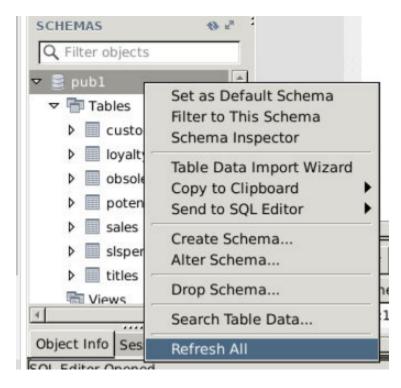
5. In the Configure Import Settings portion of the import wizard, verify that the source columns match up to the appropriate destination columns and click **Next**.



6. Click **Next** to execute the import of the csv file. Click **Next** and **Finish**.



7. In the Schemas pane, right-click and select **Refresh All** to populate the **inventory** table.



# **Exercise 2: Select Books for Reordering**

The manager of the store has asked that you create a query that will be able to identify which books have a low quantity. Any book that has less than 5 copies remaining is in need of ordering. Create a query the manager can use to quickly identify all books that need to be ordered based on these criteria. Sort the results by the most sold product being at the top.

#### **TODO**

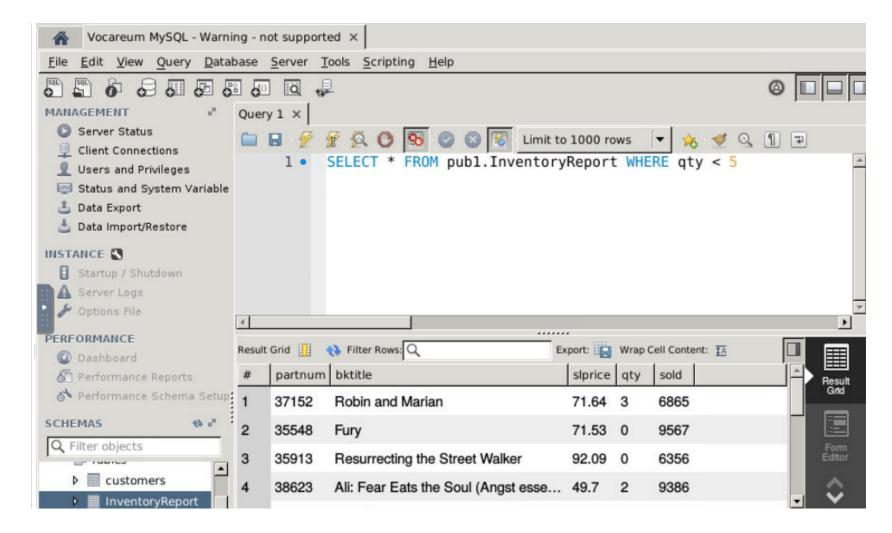
Using the **inventory** table, create a **SELECT** query to identify all books that have fewer than five items remaining in the inventory sorted by amount sold in descending order.

#### **Steps**

- 1. In Workbench, click the **Query** tab in the main view.
- 2. Enter the following query to look for all books that have a quantity fewer than 5

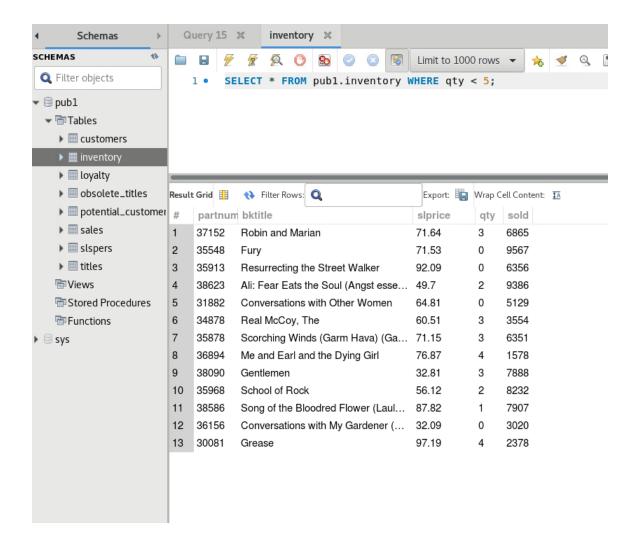
```
SELECT * FROM pub1.inventory WHERE qty < 5
```

3. Click the execute lightning bolt to execute the query.



Yo me olvide de cambiar InventoryReport por inventory :(

#### **Example view**



# **Exercise 3: Select Low-Selling Books**

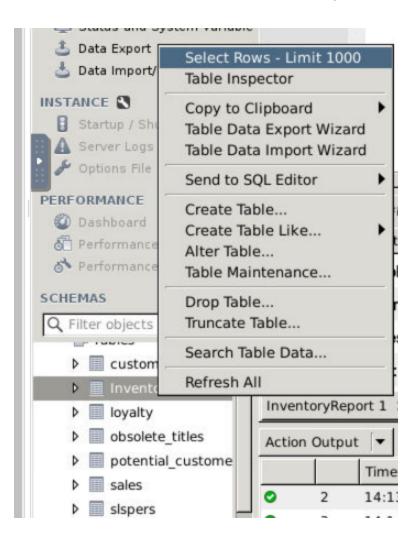
Anticipating additional requirements from the customer can sometimes be a good thing and save you some work later on down the line. In this case, you have anticipated that the manager will probably want to know what items have sold the least. Use 100, 200, and 500 thresholds to create a set of queries to inform the manager.

#### **TODO**

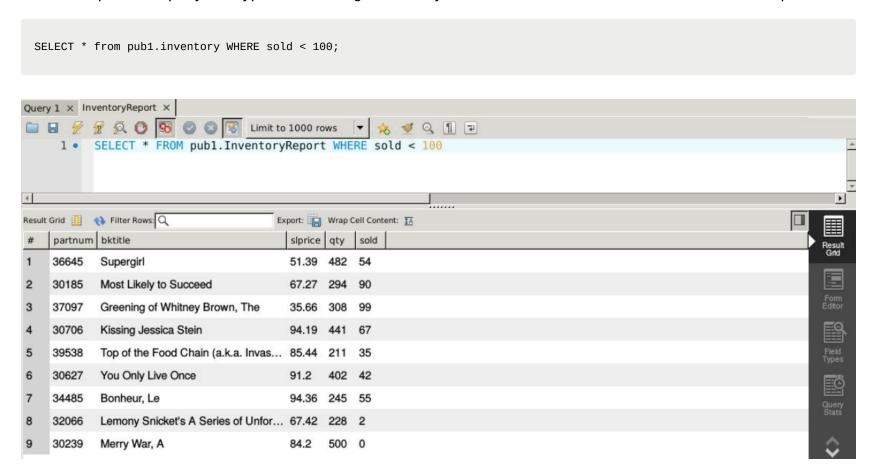
Create three different **SELECT** queries to identify books that have sold less than 100, 200, and 500.

### Steps

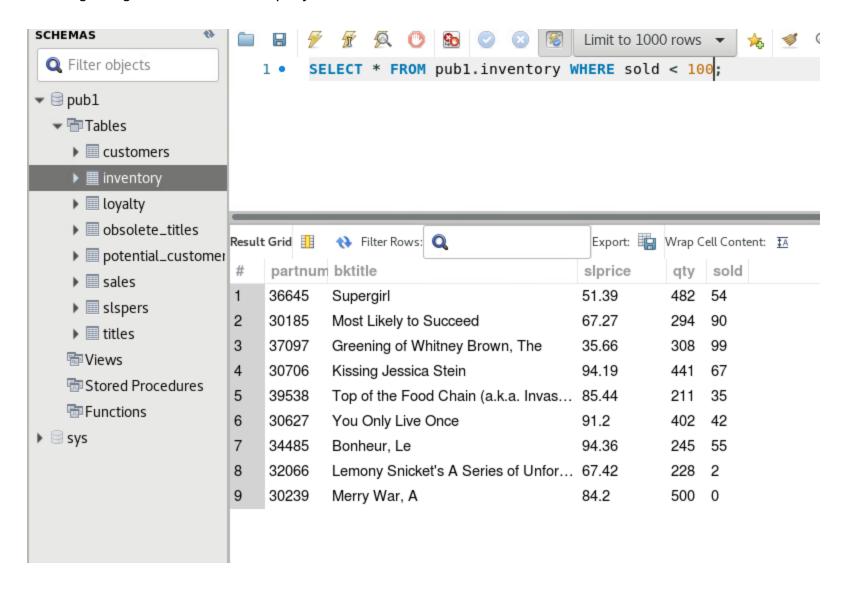
- 1. From the **pub1** database, select the **inventory** table.
- 2. Right click on the **inventory** table and select the **Select rows Limit 1000** option.



3. Delete the previous query and type the following line to only include books that have sold fewer than 100 copies.



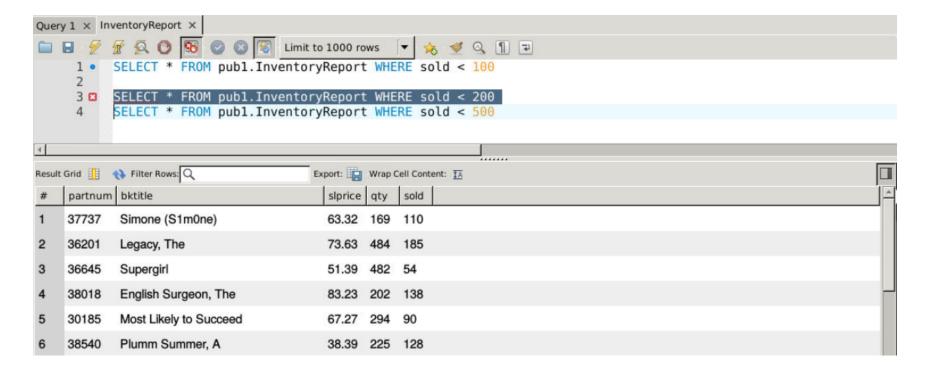
4. Click the lightning bolt to execute the query.



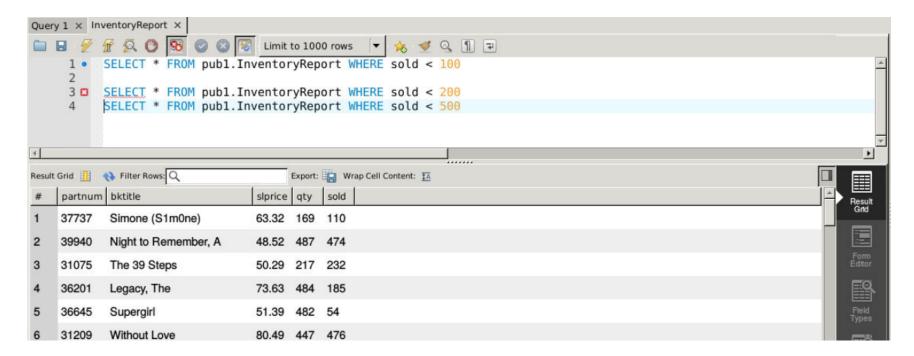
5. Create two additional queries for 200 and 500 copies below your first query.

Click the lightning bolt with the cursor, the one in the center, to execute the queries individually based on your cursor location.

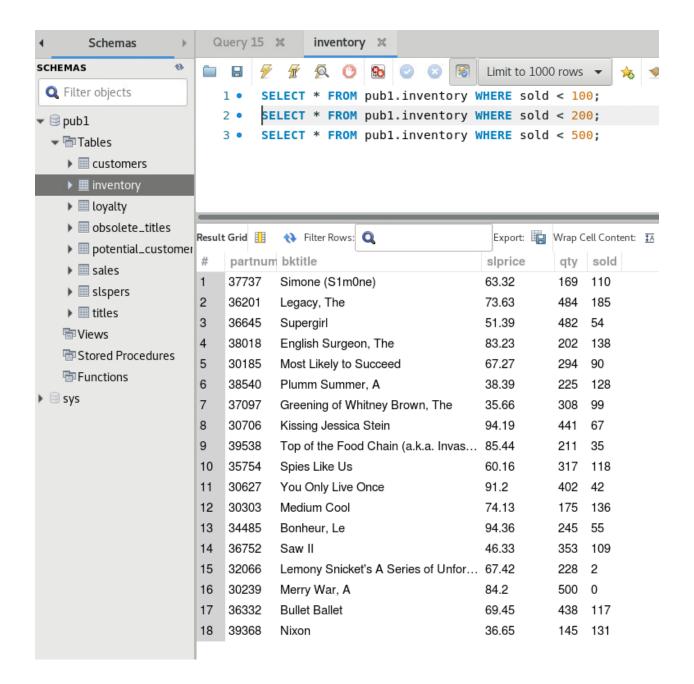
#### >200 copies



### >500 copies



#### **Example View**



#### **STOP**

You have successfully completed this lab.