

Lab 3: Filter Data (5% of total grade)

Submission: Use the included .sql file to put your answers in, then upload only the SQL file to Blackboard (Assessments > Lab 3 - Refining Data).

Name your file: **HTTP5126-L3-FilterData-LastNameFirstName.SQL**, replace *LastNameFirstName* with your name as displayed in Blackboard.

Purpose: To implement new keywords and clauses learned in Lesson 3 in order to answer “human” questions more precisely.

Requirements: For this assignment, you will use the provided Pet Store data tables.

To put ourselves in a “real world” mindset for bridging the Human -- Computer gap, we will pretend that you are a database administrator for a pet store. The queries that you create will answer questions posed to you by your “employer” and “colleagues”.

NOTE: Run your queries on your database to make sure desired results are retrieved. Also import and execute your sql file to ensure it runs all your queries before submitting.

Pre-Lab:

1. Start your mySQL server and open phpMyAdmin or Adminer.
2. Feel free to reuse the database from lab 2 or create a new one for lab 3 using the **pet_store_tables.sql** file (same file as lab 2).

Part 1: Getting Logical (AND/OR) (1%)

- A. Accountant: “Can you give me all the details for the employees that are either the manager or the assistant manager?”
- B. Assistant Manager: “Our fish supplier called, can you show me all of the data for our fish (piscine) items that have an inventory count of less than 24?”

Part 2: LIKE it a Lot (1%)

- A. Customer: “What kind of cages do you have, and how much are they?” HINT: What items do you have that end in “cage”?
- B. Customer: “I was speaking with one of your sales associates, but I can’t remember his name. It starts with F”. HINT: What first name starts with F?

Part 3: Providing a Range of Options (1%)

- A. The assistant manager is doing an inventory report and needs full details for all items with an id between 1010 and 1015 (inclusive).
- B. Customer: “I’m buying something for my friend’s dog, but my budget is \$10-\$20. What have you got in that range?”

Part 4: Getting NOT Logical (1%)

- A. Manager: "It's time for the employee appreciation day, get me the names and phone numbers for all the employees excluding me and the assistant manager so I can give everyone the details"
- B. Manager: "Can you get me the name, price, and inventory of items but do not include items for cats or dogs. Also do not include items with an inventory over 20."

Part 5: Bringing ORDER to Your Data (1%)

- A. The manager is creating a contact list. Create a query that provides the first names, last names, "Job Title" and phone numbers for all employees in alphabetical order by last name.
- B. Next week is *Murine Monday* and there will be a sale on select items for hamsters and guinea pigs. Provide the manager with a list of items (id, item, price, inventory) from this category with more than 20 items in stock. It should be listed from the most expensive to the least expensive.