

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 nothing for cats, dogs or anything 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.