HTTP 5126 – Database Assignment 3 24W

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**Section : A**

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# Assignment 3-Refining Data (4% of total grade)

**Format:** Upload a document with your SQL statement and screenshot of the results to Blackboard (under ASSESSMENTS & TOOLS > Assignments > Database).

BE SURE TO PUT YOUR NAME and Student# IN THE FILENAME: e.g. DB-Assign3- *YourName-N012344*.doc

**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”.

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

1. Accountant: “Can you give me all the details for the employees that are either the manager or the assistant manager?”

**SELECT \* FROM employees**

**WHERE role = 'Manager' OR role = 'Assistant';**

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1. 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?”

**SELECT \* FROM stock\_items**

**WHERE category = 'Piscine' AND inventory < 24;**

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## Part 2: LIKE it a Lot (1%)

1. Customer: “What kind of cages do you have, and how much are they?” *HINT: What items do you have that end in “cage”?*

**SELECT item , price FROM stock\_items**

**WHERE item LIKE '%cage';**

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1. 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?*

**SELECT first\_name , last\_name FROM employees**

**WHERE first\_name LIKE 'F%';**

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

1. The assistant manager is doing an inventory report and needs full details for all items with an id between 1010 and 1015 (inclusive).

**SELECT \* FROM stock\_items**

**WHERE id BETWEEN 1010 AND 1015;**

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1. Customer: “I’m buying something for my friend’s dog, but my budget is $10-$20. What have you got in that range?”

**SELECT item, price FROM stock\_items**

**WHERE category = 'Canine' AND price BETWEEN 10 AND 20;**

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## Part 4: Bringing ORDER to Your Data (1%)

1. 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*** except the manager in alphabetical order by last name.

**SELECT first\_name, last\_name, role AS 'Job Title', phone FROM employees**

**WHERE role != 'Manager'**

**ORDER BY last\_name;**

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1. 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 that has more than 20 items in stock. It should be listed from the most expensive to the least expensive.

**SELECT id, item, price, inventory FROM stock\_items**

**WHERE category = 'Murine' AND inventory > 20**

**ORDER BY price DESC;**

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