Lab 5: Data from Multiple Tables (8% of total grade)

Submission: Use the included .sql file to put your answers in, then upload only the SQL file to Blackboard (Assessments > Lab 5 - Multiple Tables).

Name your file: HTTP5126-L5-MultipleTables-*LastNameFirstName*.SQL, replace *LastNameFirstName* with your name as displayed in Blackboard.

Purpose: To practice data retrieval from multiple tables by joining tables in result sets.

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

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. Create a database for this lab (eg. http5126_lab5). Set the collation as utf8_unicode_ci.
3. Select the DB then import and execute the SQL file 'lab5_pet_store_tables.sql'. This should create 3 tables in your database (employees, stock_items, & sales) which will be used for the queries you create below.

Part 1: What are the sales for a particular item? (1%)

A. Select all of the rows from the sales table with an item column value of 1014.
B. Select date (from sales), item (from stock_items) to get the items with a value of 1014.

Part 2: What are the sales for a particular team member? (2%)

A. Select all of the rows from the sales table with an employee column value of 111.
B. Select date (from sales), first and last name (from employees), item (from sales) to show the sales from the employee with a value of 111.

Part 3: What a week! and Go Team! (2%)

A. Provide the date, item (from sales), and employee first name for all sales in the range of September 12 to September 18 (inclusive) of this year.
B. Provide the count of all sales for each sales person (first name and last name) grouped by sales person. The results should show most sales to least sales.

Part 4: Challenge (2%)

A. Based on the results from 3B above, use the sales person with the most sales for this query. For all sales provide the date, item (from stock_items), price, category, and employee first name. Use aliases to rename your tables so your query is shorter to write. *For this and all future labs you may use these table aliases in queries if you would like to.*
B. Create a count of the "Times Sold" for each item (sales). Provide the item id (stock items), items (stock_items), prices, and categories. The result set must include all stock_item items, whether there were any sales or not. This list should be ordered by the stock_items id.

Part 5: Challenge Yourself (1%)

Create your own "human question" with the data set provided. Then write a query to answer this question. Your query should use at least 1 ***JOIN*** *and should be* ***ordered*** *so data is easy to parse. Preferably you should use an* ***aggregate function*** *to make your query more interesting.*

A. Write the question you have created next to the comment on line 28 of the provided sql file. eg. "-- A <your question here>".
B. Create the query that returns the result your question asks for.