# Assignment 2 (100 points)
# Due Date: Tuesday, January 19th, 11:59 PM

## Objectives

This assignment focuses on the SELECT statement and the ORDER BY clause with single table From clauses. The basis for the majority of database interactions is the SELECT statement. A database contains data as values for each field in a database. When that data is processed into useful statements that users can view, it becomes information.

This assignment uses tables associated with the retailStore database. Pay attention to these tables. They will be used for each query and the columns to be displayed. Display the columns in the order listed in the task

Use the comparison operators ( =, <>, !=, >=, <=) in the WHERE clause.

In this assignment you will:

- Sort rows by using the ORDER BY clause.
- Retrieve all columns from a table.
- Select Specific Columns.
- Use Column Aliases.
- Use the WHERE Clause.
- Use the NULL Conditions.
- Use Logical Operators: AND and OR.
- Restrict Data Using SELECT.
- Use Arithmetic Operators and Column Alias in SELECT statement

## Preliminary

Create the tables for the retailStore database first. Download and run the SQL statements to create and populate the tables. These tables will be used for the next assignments.

Run the following scripts.

- create_tables_retailStore_database.sql
- Insert_data_retailStore_database.sql

Create a script file with the queries described in the various queries listed below. Use the assignment script template posted on the assignment page as the basis for this script. Test your script. When it works correctly and follows the assignment guidelines, create a .txt file by running this script.

Read your .txt file before submitting the assignment. It should contain:

- your full name as a comment
- the use command to switch to the correct database
- the query number for each query as a comment
- the SQL query (or queries)
- the output for each query

Do not include the provided SQL statements to create and populate the tables in the script you submit for a grade.

In this assignment, you will retrieve data that is stored in the retailStore database by using a SELECT statement.

1. Write a SQL statement that lists the item number, description, and color for all items.
2. Write a SQL statement that lists all rows and columns for the complete orders table.
3. Write a SQL statement that lists the first and last names of customers with current balance of $100 or more.
4. Write a SQL statement that lists the order number for each order placed by customer number c00103 on 05/27/2017.
5. Write a SQL statement that displays the customer number, first name, last name, email and phone number of each customer.
6. SRS (Sports Retail Store) is considering giving a $5.00 gift card to all customers, which can be used to reduce their current balance. Write a query that will show the customer's first name, last name, customer number, current balance and the value of their balance minus the gift value.
7. Write a query that displays the customer's first name, last name, current balance and monthly payment. Use first name, last name, balance and monthly repayments as the column aliases. The aliases are to be shown exactly as described (case sensitive).
8. Write a query that displays the order ID, date and time of all orders that were placed before the 05/28/2019. Use an appropriate alias for your column headings.
9. Write a query that lists all details of all items. Order the output by item number within category. (That is, order the output by category and then by item number.)
10. Write a query that displays the rows from the customer table where the values in the customer number column is 11119. Display the customer's last name, first name, customer number, and email address.
11. Write a query that displays the customer number from the orders table for each customer who has placed an order with the retailStore. Display each customer number only once.

**Submission Instructions:**

- For each of the queries above, submit the query and the result from running the query. Please use the provided SQL file to write your submissions.
- You will need to label your assignment with your first initial, last name, and the name of the assignment. **Example:** *hibrahim_assignment2.sql* and *hibrahim_assignment2.txt*
- Zip the two files together to create one compressed file. **Example**: *hibrahim_assignment2.zip*
- Submit the zipped file containing the script and output .txt via Canvas.
- Remember to include the query number as a comment at each step.
- Read your output .txt file before submitting.