**Course Project   
DeVry University  
College of Engineering and Information Sciences**

**Course Number: CEIS236**

**Course Project Deliverable: 5**

Include screenshots of the code and result

## Problem 1

Write the SQL code that will create only the table structure for a table named EMPLOYEE. The basic table structure is summarized in the following table. Use EMP\_NUM as the primary key. Your code should also prevent null entries in EMP\_LNAME and EMP\_FNAME.

Graphical user interface, text, application

Description automatically generated



## Problem 2

Having created the table structure in Problem 1, write the SQL code to enter the first five rows for the table shown in the following figure. Each row should be inserted individually, without using a subquery. Insert the rows in the order that they are listed in the figure. Take a screenshot of the code and data entered.

A picture containing text

Description automatically generated

Table

Description automatically generated

## Problem 3

Write the SQL code to change the job code to 501 for the person whose employee number (EMP\_NUM) is 103.

Graphical user interface, text

Description automatically generated with medium confidence



## Problem 4

Write the SQL code to create a copy of EMPLOYEE, including all of its data, and naming the copy EMP\_2.

Graphical user interface, text

Description automatically generated

## Problem 5

Using the EMP\_2 table, write the SQL code that will add the attributes EMP\_PCT and PROJ\_NUM to EMP\_2. The EMP\_PCT is the bonus percentage to be paid to each employee. The new attribute characteristics are:

EMP\_PCT NUMBER(4,2)  
PROJ\_NUM CHAR(3)

Note: If your SQL implementation requires it, you may use DECIMAL(4,2)or NUMERIC(4,2) rather than NUMBER(4,2).

Graphical user interface, text

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## Problem 6

Using the EMP\_2 table, write a single SQL command to change the EMP\_PCT value to 5.00 for the people with employee numbers 101, 105, and 107 (hint: use the IN keyword).

Graphical user interface, text, application

Description automatically generated

## Problem 7

Write the SQL code to join the PRODUCT and VENDOR tables using common attributes. Display the result sorted by price.

Graphical user interface, text, application

Description automatically generated

## Problem 8

Write the SQL code to display the total inventory. Your query should retrieve the product code, description, and the calculated total inventory. This will be calculated by multiplying P\_QOH by P\_PRICE and rounded to two decimal places. The new field should be named TOTAL\_INVENTORY. Sort by TOTAL\_INVENTORY descending.

Graphical user interface

Description automatically generated with medium confidence

## Problem 9

Write the SQL code to display the customer last name, first name, invoice date, and line price from CUSTOMER, INVOICE, LINE. Join all three tables and display only those values with a line price less than 10.

Graphical user interface, text, application

Description automatically generated

## Problem 10

Write a query to count the number of customers with a balance of more than $500.

Graphical user interface, text, application

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