

MEMO

DATE: February 12, 2021
TO: Cambria Art Gallery
FROM: Leonard Margaria

SUBJECT: Development tasks

DUE DATE: Monday February 22, 2021 11:59pm

SQL Chapters needed to complete this task:

SQL 1: Retrieving Data Using the SQL Select Statement (SELECT)

SQL 2: Restricting and Sorting Data (ORDER BY)

SQL 3: Using Single-Row Functions to Customize Output (CONCATENATE ... or use ||)

SQL 4: Using Conversion Functions and Conditional Expressions (NVL function)

SQL 6: Displaying Data from Multiple Tables (JOIN, OUTER JOIN)

SQL 9: Manipulating Data (INSERT)

SQL 10: Using DDL Statements to Create and Manage Tables (CREATE TABLE)

SQL 11: Creating Other Schema Objects (CREATE VIEW)

DISCUSSION ON HOW TO DEAL WITH IMPLEMENTING SUPERTYPE/SUBTYPES

- STATE ANY ASSUMPTIONS YOU HAVE MADE
- CHECK YOUR WORK TO ASSURE IT IS CORRECT
- IF YOU ARE UNABLE TO ACCOMPLISH ANY PART OF THIS TASK, THIS MUST BE STATED AT THE BEGINNING OF YOUR SUBMISSION. NO PARTIAL CREDIT WILL BE GIVEN FOR THIS TASK IF IT CAN BE EASILY DETERMINED THAT YOU HAVE SUBMITTED WORK THAT IS INCORRECT.
- CHECK YOUR SCRIPT TO ASSURE YOUR CODE MATCHES YOUR ERA DIAGRAM.

TASK 2: Employee Table

1. Creating Table:
 - a. The attributes of an employee include the following: employeeID, first name, last name, address, city, state, zip, personal phone, email, date hired and title.
 - b. Sales staff (Sales Manager and Salesperson) have the attribute Commission Percent which ranges from 20% to 30%. This percentage is applied to the profit on the sale of an artwork. All other employees have a salary. Leonard, even though he might conduct a sale, does not earn a commission.
2. Data:
 - a. Review the Organization chart and enter the information included there. Please enter appropriate values for the attributes described above.
 - b. Additional information includes the following:
 - i. Employee IDs are 4 digit numeric values and begin with 1000 (Leonard's EmployeeID)
 - ii. Intern: Sherry Sophomore
 - iii. All assistant managers have been reclassified as managers.
 - iv. Mary McMaster has a commission percent of 25%
 - v. Allen Foster and Brenda St. James have commission percent of 22% and 24% respectively.

- vi. Make CA the default value for state.
 - c. You can see who reports to whom by the organization chart. Leonard does not report to anyone.
 - d. Have some insert statements make use of the DEFAULT clause.
3. Quality Control Check List:
- a. CHECK: Commission percent range
 - b. DEFAULT: city CA
 - c. UNIQUE: phone, email
 - d. NOT NULL: choose these appropriately.
 - e. Reference integrity as appropriate
4. Queries: Write the following SELECT statements that returns the following to test your work. Write these as CREATE VIEW statements.
- a. Employee Contact List: first name, last name, phone, email ordered by employee last name.
 - b. Employee Reporting List: List the employees who have employees reporting to them and the employees who report to them. Order this list by increasing supervisor last name. (concatenate first and last names).

Example:

Manager	Title	Reportee	Title
George Cruise	CPA	Alex McManus	Maintenance
George Cruise	CPA	Kathy Smith	AR/AP Clerk
Alonzo Garcia	Packing/Shipping Tech	Sherry Sophomore	Cal Poly Intern
Leonard Martini	Owner/Manager	George Cruise	CPA
Leonard Martini	Owner/Manager	Ellen Rambleson	Service Manager
Leonard Martini	Owner/Manager	Mary McMaster	Sales Manager
Mary McMaster	Sales Asst. Manager	Allen Foster	Sales Associate
Mary McMaster	Sales Asst. Manager	Brenda St. James	Sales Associate
Ellen Rambleson	Service Manager	Alan Wood	Framing Tech
Ellen Rambleson	Service Manager	Alonzo Garcia	Packing/Shipping Tech

Submission:

SQL SCRIPT consisting of the following:

Comments at beginning of script with the names of your team members.

DROP TABLE STATEMENTS (put all DROP TABLE statements at beginning of script)

CREATE TABLE

INSERT STATEMENTS

CREATE VIEW (put all CREATE VIEW statements at end of script)

NOTE: THIS SCRIPT FILE IS NOT TO BE SUBMITTED IN WORD BUT IN A FILE THAT CAN BE OPENED AND EASILY READ IN NOTEPAD. THE SCRIPT FILE MUST BE EXECUTABLE IF I UPLOAD IT TO ORACLE APEX.

An accompanying PDF document that presents any assumptions, things that don't work, etc.