**Database Reorganization – part 2**

**Develop scripts to revise the OES2\_NEW that was developed Database Reorganization – part 1**

Run the OES2\_NEW database in your personal ORACLE 10g or 11g

You need to improve the database to ensure that enterprise constraints defined by data administration are followed. These improvements/requirements are as follows:

1. Employee sales performance (6 points):

Sales are only done by employees with the following positions: Sales Manager, Sales Representative, Customer Service, and Customer Service Manager.

* 1. Develop a report to identify discrepancies (2 point). You are listing orders by employees that are not related to SALES (make sure to include their job title).
  2. Use the spreadsheet provided to credit orders to correct employees (orders-new). You need to develop a PL/SQL program to modify the ORDERS table to correctly credit the sales to different employees (2 point)
  3. Make sure your updates are auditable.
     1. This means you have to create a table (EMP\_Orders\_Audit to keep track of your changes and prove it by querying the database. (2 point).
     2. This table has the following attributes
        1. Order\_no, old\_emp\_no, new\_emp\_no, update\_date, Modified\_by

1. Employee termination status (3 points):
   1. Revise the employee file to correctly show the employee termination date. (1 point)
   2. Make sure your updates are auditable
      1. This means you have to create a table (EMP\_Termination\_Audit to keep track of your changes and prove it by querying the database. (2 point).
2. Enforce the gender column in create employee table to have the values of “F” and “M”. Add gender to the employee tables (see the employee spreadsheet)
   1. Use ALTER command to add a new ‘Gender’ field (1 points)
   2. Develop a PL/SQL program to modify the EMPLOYEE table (2 point)
3. Revise the shipping method in ORDERS table to convert the various versions of similar shipping method into one description. For example, all shipping method of ‘1day-air’, ‘1day’, and ‘1-day’ should be changed to ‘1 DAY’. (2 points)
   1. Convert all shipping method ‘1day-air’, ‘1day’, and ‘1-day’ to ‘1 DAY’
   2. Convert all shipping method ‘2day-air’, ‘2day’, and ‘2-day’ to ‘2 DAY’
   3. Convert all shipping method ‘Ground, ‘ground’, and ‘ground-air’ to ‘GROUND’
   4. Make sure your updates are auditable.
      1. This means you have to create a table “Ship\_Method\_Audit” to keep track of your changes and prove its correctness by querying the database (1 point)
4. Revise the order table to include the following columns using ALTER command (3 points):
   1. expected\_ship\_date
   2. ship\_date
   3. expected\_receive\_date
   4. Actual\_receive\_date

The logic to automatically calculate some of these fields are:

* 1. expected\_ship\_date is equal to order\_date + 5
  2. expected\_receive\_date is as follows
     + 1. if ship\_method = '1\_Day' then ship\_date + 1
       2. if ship\_method = '2\_Day' then ship\_date + 2
       3. if ship\_method = 'Ground' then ship\_date + 5

1. Verifying TAX calculation (3 points)
   1. Check to see whether the customer is tax exempted or not, if tax status is 'Y' (default) then the right tax is calculated depending on the STATE tax rate, otherwise no tax (zero).
   2. Revise the errors and maintain the difference in a new table.
   3. Develop a comparison report
   4. Make sure your updates are auditable. This means you have to create a table “Order\_Tax\_Audit” to keep track of your changes and prove its correctness by querying the database (1 point)
2. Develop an up-to-date Visio document (2 point)
3. Create the new version of OES2\_New called OES3.
   1. The script to create OES3 should be ONE FILE.
   2. This file called “Create\_Populate\_OES3” should create the OES3 database WITHOUT any error (2 points).

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
Submit the following documents using a ZIP file (nor RAR) to D2L's DROP BOX ASG11

a.  Include one notepad containing the CREATE tables, INSERT statements, ALTER commands, and additional statements and commands to improve the database from part 2.  
b. Include an analysis report to show all 8 components are working and generating correct results