

Lab-04 Weekend Paper

EEI4366 / EEX4366 – Data Modelling and Database Systems

Bachelor of Software Engineering Honours / Bachelor of Technology

Department of Electrical and Computer Engineering

The Open University of Sri Lanka

Academic Year – 2022/2023

Duration: 2 hours

Instructions:

1. Add a comment at the beginning of each xml file with your registration number and student number.
2. Add the question number along with your registration number and student number as comments at the beginning of each SQL query. <Example: #Q1 – 22440559 – s00001>
3. You need to add screenshots of all the SQL queries (with the comment given in above point) to a word file along with the result set for each question (where necessary), convert the word file to a pdf and upload the pdf and your sql script file to the dropbox
4. All the files – **2 xml files, SQL script file and the pdf file** need to be saved inside a zip file (give your registration number as the file name) and uploaded to the dropbox.
5. You need to prepare the word file during the test and additional time for file preparation will not be given. Extra 5 minutes will be provided after the lab test **only to upload your answers.**
6. **Any cases where plagiarism / copying is identified you will be getting Zero marks.** Therefore, DO NOT share your code with anyone. Both the copies of a copied assignment will be given zero marks.

Use notepad or any other suitable application to create xml files.

1. Create separate **xml files** providing suitable values to store data about the following two entities. The xml files can be saved giving appropriate names. (At least 5 data entries should be there for each file)

Customer

CustID - Customer ID (primary key)
Firstname
Surname
Address

Shopping_Order

OrderNo (primary key)
OrderDate
Payment
ShippingAddress
CustID – Customer ID (foreign key)

Use “MySQL Workbench” and/or “MySQL Command Line” to perform the following operations.

2. Execute the following queries using MySQL. (Provide appropriate names as necessary)
 - i. Create tables with relevant integrity constraints to load data from the xml file creating any database.
 - ii. Load data from the xml files to the created two tables separately using a query.
 - iii. Create a View having customer first name and surname (combined together) with the details of the orders placed by him/her with orderNo, order date and payment. Show the result of the view using select query.
 - iv. Save the result of the view created in above question to an xml file, open the file and add your registration number and student number as an xml comment and rename the file with your student number. (This xml file should be included in the zip file to be uploaded to the dropbox)
 - v. Create a table with the schema given below and use a trigger to load data to it using ‘Shopping_Order’ table whenever a new record is entered into ‘Shopping_Order’ table.

OrderAddress(OrderNo, ShippingAddress)

****For following the given instructions, clarity of the code and giving comments as instructed will be given 10 marks.***