

Lab-02 Weekend Paper

EEI4366 / EEX4366 – Data Modelling and Database Systems

Bachelor of Software Engineering Honours / Bachelor of Technology

Department of Electrical and Computer Engineering

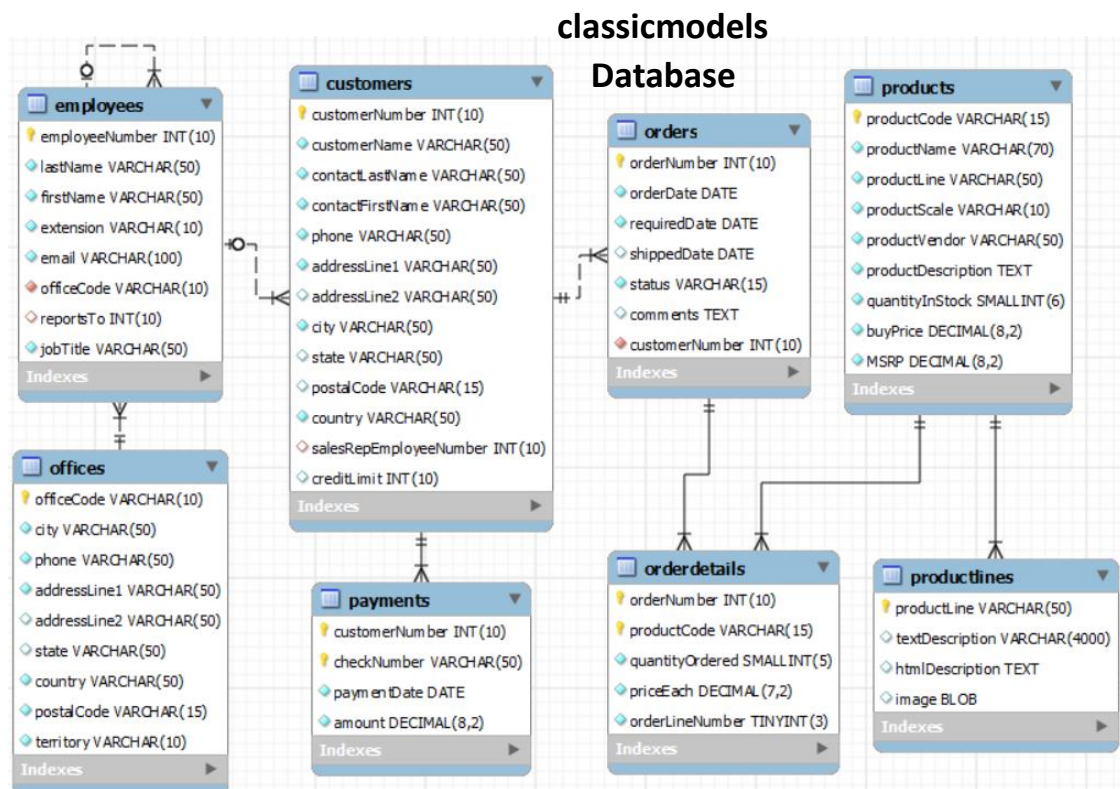
The Open University of Sri Lanka

Academic Year – 2022/2023

Duration: 2 hours

Instructions:

1. Add the question number along with your registration number and student number as comments at the beginning of each SQL query. <Example: #Q1 – 22440559 – s00001>
2. You need to add screenshots of all the SQL queries to a word file along with the result set (where necessary), convert the word file to a pdf and **upload the pdf** and your **sql script** file to the dropbox.
3. Both SQL script file and the pdf file need to be renamed giving your registration number as the file names.
4. 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**.
5. **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 “MySQL Workbench” to perform the following operations.

- You will be provided with a sql script file with the database “classicmodels”.
- After opening the file using MySQL Workbench, run all the queries to get the database with tables and data stored.
- Open a new SQL tab to execute queries by first running the USE statement.

Execute the following queries on the given database.

1. Create a view named ‘SalesRepresentative’ to display details of all the employees who have a job title of a ‘SalesRep’.
2. Create a view named ‘EmpCity’ to display the name (firstname and lastname combined), email, the job title and the city taken from ‘offices’ table.
3. From the view created in question 2, obtain details of all the employees working as ‘SalesRep’ at the city of ‘San Francisco’.
4. Create a view named ‘Customer_Products’ with all the products ordered by the customers displaying the customer name, country, product name and the quantity ordered.
5. From the view created in question 4,
 - i. Obtain the details of customers who ordered the product ‘1911 Ford Town Car’.
 - ii. Obtain the number of customers who ordered the product ‘1911 Ford Town Car’.
6. Create a table named ‘Product_Text’ with the given schema and use a trigger, ‘insert_product’ to load data to it using ‘products’ table after a new record is entered into ‘products’ table.
Product_Text (productCode, productName, productVendor, quantityInStock)
7. Insert new values to the ‘products’ tables and show the values getting inserted automatically to ‘Product_Text’ table due to the execution of the trigger created in question 6.
8. Create a trigger, ‘delete_product’ to delete the values in ‘Product_Text’ table when the inserted values in ‘products’ table get deleted.
9. Delete the inserted values from the ‘products’ tables and show the values getting deleted automatically from the ‘Product_Text’ table as well due to the execution of the trigger created in question 8.

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