CSC2001F – DB Assignment 1 - Part 2 of 2

In this Part 2, you will provide some additional SQL statements for the database used in Part 1 of this assignment. A diagram for the database schema may be found at the end of this document. You should create and load your own MySQL database using the SQL file '`classicModels.sql`', available from Amathuba. Then answer the questions below. **Your SQL statements must be correct for any instance of the database schema, and not just for the given sample data**. Please use the Amathuba Discussions forum for all questions on this assignment. Emails will not be answered.

Check Amathuba and the forum frequently for any messages on this assignment.

Submit answers as a single Word or PDF file to the Automarker.

Use your student number as filename, e.g. STDNUM001.PDF or STDNUM001.DOCX

Questions

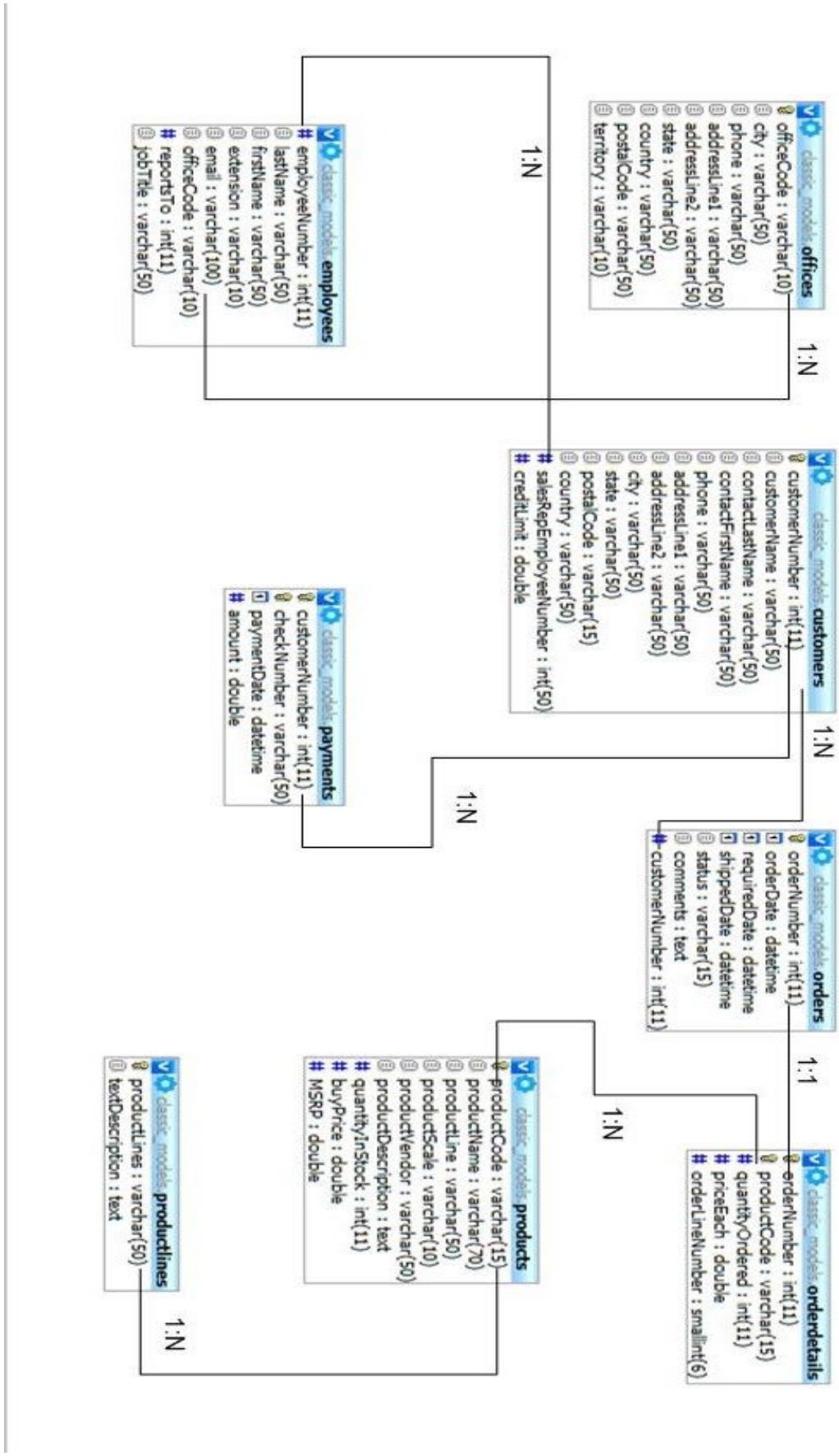
1. Give the SQL you would use to update the employee with number 1313, if any, to give them a different employee number – any number, as long as it is not one that's already used in the database for some other employee. [2]

2. ***Using only the SQL covered in this course***, devise a query of your own to show the power of SQL, i.e. involving the most advanced SQL usage you can manage that provides useful information derivable from the given database. Explain clearly what your query is meant to find out from the database; show the SQL and its result; and show clearly how you know it is correct. Marks will be awarded based on how challenging/powerful the query is (3 marks) and how clearly its correctness is shown (2 marks). Note that a query is required, i.e. a SELECT statement. [5]

3. An important requirement in IT is the ability to learn effective use of new developments in the field. Several advanced features of SQL are not covered in this course. Using any aspect(s) of SQL ***not covered in this course***, devise a query of your own to show the power of SQL, i.e. involving the most advanced SQL usage you can manage that provides useful information derivable from the given database. Explain clearly what your query is meant to find; show the SQL and its result; and show clearly how you know it is correct. Marks will be awarded based on how challenging /powerful the query is (3 marks) and how clearly its correctness is shown (2 marks). Note that a query is required, i.e. a SELECT statement. [5]

End

Appendix



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