# Databases Coursework

The coursework meets the following module learning outcome:

- Practise business database design.

In this coursework you are tasked with creating a database system for the smooth and efficient operation of a business of your choosing. Hence, you are required to specify what type of business you will be building your databases system for, along with the different collections of data that may be required to be stored in your database to achieve its purpose.

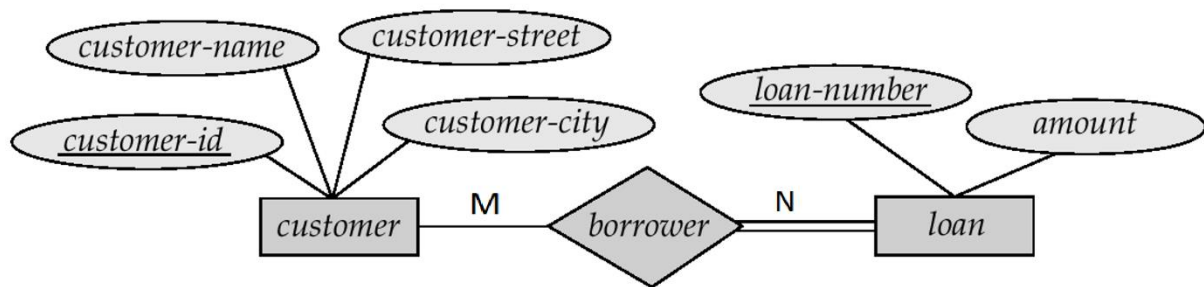***This coursework worth 30% of the whole module.***

## COURSEWORK ONE

In this section, you are expected to describe an overview of your idea of the DBMS you want to design and develop, what are the business questions based on what you will cover in your system, and the purpose of having a DBMS you have proposed. You will need a good logical relational database management system representation (ERD) based on your proposed idea. This includes Formal Data Modelling with detailed features of your system.

Your submission must be a single report (PDF) and should contain:

1. Business system summary based on the chosen topic.
    a. Describe what is your business idea in details.

2. An overview of the business environment and your work objectives.
    a. In this section, you are expected to explain why your business idea needs a Relational database management system
    b. and what are your work objectives.

3. Justification how your developed database meets the objectives, and how it will support the business as a working DBMS

4. An ERD (logical schema) of your proposed idea using an appropriate tool (It is required that you ERD contains **at least 7-8 Entities** in it).
    a. Indicate key attribute for each entity set
    b. Indicate cardinality for each relationship
    c. Indicate participation for each entity related to each relationship

Example for expected ERD form as follow:



5. A diagram (physical data model) clearly shows:
   a. Each table
   b. Attributes
   c. Constraints including data types and Keys

# Marking Scheme

| Criteria | Excellent | Satisfactory | Not Satisfactory | Not Attempted |
|---|---|---|---|---|
| **Idea:** the suitability of the idea for a DBMS | The idea requires a DBMS and has been well specified. | The idea would require a DBMS to manage although the idea is not fully specified. | Idea is simple and could be managed without a DBMS. | No idea provided or idea unsuitable. |
| **Purpose of DBMS:** how well defined the purpose of the DBMS is. | The DBMS purpose is clearly defined and represents a good use of a DBMS. | The DBMS purpose is clearly defined although does not clearly represent a good use for a DBMS. | The DBMS purpose is not clearly defined. | Purpose of the DBMS not given, or purpose ill defined. |
| **Justification**: Of how the database meets the project objectives and that also focus on the suitability of the database for the business | Appropriately justified that are clearly suitable for the DBMS defined. | The justification provided are suitable for the DBMS defined although could be more precise. | The justification provided are not clearly suitable for the DBMS defined. | No justification provided or is unsuitable for the proposed system. |
| **Entity Relationship Diagram:** The quality of the physical data model provided. | ERD provided is correct and fully complete for the problem at hand. | ERD provided is correct although is not fully complete. | ERD provided has some omissions and incorrect features. | No ERD provided or ERD is grossly misleading. |
| **Physical Data Model:** The quality of the physical data model provided. | Data model is correct and fully complete for the problem at hand. | Data model provided is correct although not fully complete. | Data model has some omissions and incorrect features. | No data model provided, or data model is grossly misleading. |

| Submission:<br>To provide a submission that meets the requirements given. | Correct files submitted only with no issues. | Correct files submitted only but some issues with files provided. | Correct files submitted but with unwanted files provided and possibly issues in files provided. | Incorrect files submitted. |
|---|---|---|---|---|

# Academic Misconduct

All submissions will be processed through a code plagiarism tool. If signs of misconduct are found, all students involved will be contacted to discuss further steps. Please see here for information on academic integrity at the university https://portal.roehampton.ac.uk/information/Pages/Academic-Integrity.aspx Our guiding principle is: Academic integrity and honesty are fundamental to the academic work you produce at the University of Roehampton. You are expected to complete coursework which is your own and which is referenced appropriately. The university has in place measures to detect academic dishonesty in all its forms. If you are found to be cheating or attempting to gain an unfair advantage over other students in any way, this is considered academic misconduct and you will be penalised accordingly.