DATABASE SYSTEMS ASSIGNMENT 1

NOTES

- □ Students should read everything presented below carefully.
- □ *This assignment 1 is worth 15% of the overall grade.*
- □ This assignment is on relational data modelling.
- □ Appropriate softwares can be used to support your design.
- □ Plagiarism must be avoided. Otherwise, zero mark is given.

I. REQUIREMENTS

- 1. Design a fully labelled (E)ERD according to your own business description. The diagram has to show appropriate entities (with key attributes underlined), relationships, cardinality ratios, and optional & mandatory membership classes.
- 2. Mapping your (E)ER diagram above to a relational database schema.
- 3. Based on your relational database schema, specify 10 queries using the relational algebra operators.
- 4. Identify all constraints not shown in your (E)ER diagram (at least 5 constraints).

II. SUBMISSION DEADLINE

11pm, October 28th, 2024

You have to present your assignment to me on October 31st.

The group leader submits the report to BKeL before deadline.