

## TIS1101 Database Fundamentals

### Assignment 2 (30%) and Presentation (10%)

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#### Descriptions:

- 1) Students are required to use IBM DB2 and implement the database based on the ERD designed in Assignment 1.
- 2) For Assignment 2 submission, each group is to submit one report (in .pdf) consisting of the following items:

Items	Marks
1. Corrected and normalized ERD	5
2. Data Dictionary	10
3. Creation of Tables	10
4. Data Insertion	5
5. Data Manipulation with SQL: <ol style="list-style-type: none"> <li>i. At least one aggregate function (<i>count</i>, <i>max</i>, <i>min</i>, <i>avg</i>, <i>sum</i>)</li> <li>ii. At least one query with a <i>group by</i> and <i>having</i> clauses</li> <li>iii. Triggers</li> <li>iv. Stored procedure</li> <li>v. View</li> <li>vi. Use of subqueries/nested queries</li> <li>vii. At least <i>four</i> queries <u>not</u> covered in lecture such as display the top <i>n</i> records, auto increment by 1 for every new row inserted, etc.</li> </ol>	70
<b>Total marks</b>	<b>100</b>

- 3) For each query executed in Item 5, students are required to:
  - a) explain the purpose of the query, and
  - b) provide a screenshot of the result set after query execution

Submission deadline for Assignment 2: **5<sup>th</sup> October 2020 (Monday), 12 pm**. Report (in .pdf) and SQL queries in (.txt/.docx) are to be uploaded via MMLS.

Late submission, non-contributing members or plagiarism of content is to be penalized with **zero** mark.

Presentation (10%) is in **Week 14/15**. The content of presentation should reflect the content of the report submitted.



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### Assignment 2

Title: <title>

Prepared by:

Leader: <ID> <name> <email>

Member: <ID> <name> <email>  
<ID> <name> <email>