File Naming

Submit your Milestone 2 work using the naming guidelines provided as below before the Milestone 2 deadline. The document should include the below guidelines. Convert it to PDF and submit it in MST.

LondonMetID <space> Student Full Name.PDF

Example: 2204567 Kushal Sharma.PDF

Structure and Formatting

- Use A4 Paper
- Use 1.5 Line Spacing.
- Use the Font Times New Roman
- Use Font Size
 - o 12 Points for Normal Text
 - o 13 Points for Sub Headings
 - o 14 Points for Headings
- Leave a blank line between paragraphs
- Justify your Paragraph (Full Justified)
- Use your Spellchecker on to check for Spellings errors
- Use Feature of WORD to create **Table of Contents** with proper Heading and Sub-Heading
- Use Feature of WORD to create **Table of Figures**. **Table of Figure Caption** should be below the **Figure** and Center Justified
- Use Feature of WORD to create **Table of Tables**. **Table of Tables** Caption should be above the **Table** and Center Justified
- Number the **Table of Tables** and **Table of Figures** from the **Introduction Section** of the Report
- Use formal language (Don't use 'don't' or 'wouldn't' etc. say 'do not 'or 'would not'. Do not use 'lots of' or 'lots', 'basically', or other imprecise words.)
- Refrain from using First Person (e.g. I, My)
- Refrain from using Page Border
- Put your Module Id on the Left and Module Name on the Right in the Header Section and Student Id and Student Name on the Left and Page Number on the Right in the Footer Section on each page. Header, Footer and Page Number should start from the Introduction Section of the Report
- Reference correctly with Harvard Style Referencing (a properly structured list at the end of your Report detailing all the books, web sites etc. you have cited)
- FINALLY, PAY ATTENTION TO DETAIL mention below.

1. COVER PAGE:

It has been provided to you in the resources section of the module inside coursework folder

2. SIMILARITY INDEX REPORT:

Check for plagiarism of your Milestone 2 report from **Introduction** section till **Implementation** section using the Turnitin Draftcoach feature of your Microsoft Word Online (NOTE: you must be login using your college email address to use this feature).

After generating the similarity index report, attach the pages of the similarity report (Cropped of Document Details and Overall Similarity pages) to your milestone report after the Cover page. (NOTE: Plagiarism / Similarly index must be below 20%)

- 3. TABLE OF CONTENTS (Separate Page)
- 4. TABLE OF FIGURES (Separate Page)
- 5. TABLE OF TABLES (Separate Page)

Milestone 1 Updates

6. PART 1: INTRODUCTION

- a. Introduction of the business and its forte
 - i. Choose an Organization / College / School.
 - ii. Introduce the Organization / College / School (Establishment, mission and values etc.) [at least half a page and maximum of 1 page including photos]
 - iii. Can include photo / picture of Organization / College
 - iv. Mention about Ms. Mary (Founder/Principal of the college), proposal to develop "E-Classroom platform" at the end of the Introduction Page.
- b. Description of Current Business Activities and Operations
 - i. Explain about the Organization / College / School's different activities including the physical class (e.g. Sports, Scholarships etc.)
 - ii. Planned new activity of 'E-Classroom Platform'.
 - iii. In Operations, summarize Ms. Mary's requirement of designing Database for "E-Classroom Platform"

c. Business Rules

- i. List of Business Rules derived from the description of Operational Procedures used in the system from the Coursework scenario of the "E-Classroom Platform".
- ii. The rule affects the structure of the database schema and the preparation of Initial and Final ER Diagram.
- iii. Put the Business rule in the **Bullets**.
- iv. Business Rules should be based on relationship of the 2 Entities (Both side) or may be Unary and Ternary.

d. Assumption

- i. If it is not clearly mentioned in the Coursework scenario of the "E-Classroom platform" then it should be mentioned in Assumption
- ii. If you are assuming any business rule then it should be mentioned in the **Business Rule** as well as in the **Assumption**.

7. PART 2. INITIAL ERD

The initial Entity Relationship Model should be listed in this section and should include:

- a. Identification of Entities and Attributes
 - i. Put the Attribute of the Entity in a Tabular Format:

STUDENT

S. No.	Attribute Name	Data Type	Size	Constraint
1	Student No	Number	10	Primary
				Key
2	Student Name	Character	40	Not Null
3	Date of Birth	Date		Not Null
4	Email	Character	30	Unique

- ii. Mention Data Types as Character, Number, Date or Picture. Do not mention Integer, Varchar etc.
- iii. Do not mention any Foreign Key Attributes
- b. Draw Initial Entity Relationship Diagram with few Real Entities with Attributes, Relationships, Cardinality (1 to 1; 1 to Many; Many to Many) and Relationship Existence / Modality (Mandatory or Optional) Go with Crows feet representation for the ER Diagram

Milestone 2 Guidelines

8. Part 3. Normalization

- a. Normalize from **Un Normalized Form** (**UNF**) to **Third Normal Form** (**3NF**) with valid process description.
- b. Produce a set of fully normalized tables for the system as described in the case study. Show clearly all the steps of normalization.
- c. Demonstrate that each of your relations are in Third Normal Form (3NF) by displaying the Functional Dependencies between Attributes in each relation.

9. Part 4. Data Dictionary and Final ERD

The Final Entity Relationship Model should be listed in this section and should include:

- a. List of Entities after Normalization and Attributes
 - i. Put the Attribute of the Entity in a Tabular Format:

STUDENT

S. No.	Attribute Name	Data Type	Size	Constraint
1	Student No	Number	10	Primary
				Key
2	Student Name	Character	40	Not Null
3	Date of Birth	Date		Not Null
4	Email	Character	30	Unique

- ii. Mention Data Types as Character, Number, Date or Picture. Do not mention Integer, Varchar etc
- iii. Here you need to mention Foreign Key Attributes
- b. Draw Final Entity Relationship Diagram with Entities (without Attributes) from Normalization, Relationships, Cardinality (1 to 1; 1 to Many) and Relationship Existence

/ Modality (Mandatory or Optional). Here you will not have Many to Many Relationships. – Go with Crows Feet representation for the ER Diagram.

10. Part 5. Implementation

For the Implementation part, you are required to create a **user** with your **own name** and **password** as you **LondonMet Id** assign the **privileges** to this user. Login to this user and create the tables here. You must use Oracle SOL PLUS.

e.g. CREATE USER coursework IDENTIFIED BY year2;

GRANT CONNECT, RESOURCE to coursework;

CONNECT coursework/year2

a. Create Tables

- i. Create Tables for the "E-classroom Platform" using CREATE Statement
- ii. Ensure that all Constraints including Referential Integrity is established between related tables. Take a snapshot of CREATE Statement.
- iii. Put the snapshot in the Milestone 2 document.
- iv. Put the Table Creating command in a Notepad File. (Need not to upload in Turnitin)
- v. You will have one Notepad file for all the CREATE Statement for the "E-classroom Platform"
- vi. You may create tables first and then add the constraints. In this case you need to take a snapshot of the ALTER TABLE statement and attach to the Milestone 2 document. Put the ALTER TABLE statement in a Notepad File. (Need not to upload in Turnitin). You will have one Notepad file for all the ALTER Statement for the "E-classroom Platform"

b. Adding Rows to Tables

- i. Add rows to tables with appropriate test data that is relevant to the questions listed in the Coursework Document using INSERT Statement
- ii. Enter at least 7 rows in each table.
- iii. Take a snapshot of the INSERT Statement used to populate table data
- iv. Show the content of the TABLE using SELECT statements.
- v. Take a snapshot of this SELECT Statement.
- vi. Put the snapshot of INSERT Statement in the Milestone 2 document.
- vii. Put the INSERT Statement in a Notepad File. (Need not to upload in Turnitin)
- viii. You will have one Notepad file for all the INSERT Statement for the "E-classroom Platform"
- ix. Put the snapshot of the SELECT statement in the Milestone 2 document.

11. References / Bibliography