Assessment Brief

Module Title:	Data Warehousing & Business Intelligence
Module Code:	B8IT104
Assessment Title:	Continuous Assessment One
Assessment Type:	Practical Assignment
Individual/Group:	Group (maximum 3 members)
Assessment Weighting:	50%
Issue Date:	12/10/2020
Due Date/Time:	**Deadline – 11:55 pm on Sunday 01/11/2020**
Mode of Submission:	MOODLE

Learning Outcomes to be assessed

1. Design and develop data models for a data warehouse.

2. Extract, transform, and load data.

3. Implement a data warehouse to produce useful management reports.

OLTP Database

Create 'Publisher' database using the provided **Publisher.sql** script. This database contains fictional information about a global publisher with operations in US, France, and Germany. Information is given about published titles and their authors, company employees, and sales to bookstores.

Task

Part 1 (Business Drivers)

With the aim of designing a data warehouse for the Company using Kimball's 4-step process, identify the key stakeholders within the company, and formalize the goals of the data warehouse.   [20]

Part 2 (Data Modelling)

Develop a suitable schema for any key business process. Consider the changes that may occur to dimensions over time and how you might want to track them. Incorporate any additional columns required to track the changing dimensions.

[20]

Part 3 (ETL)

Using Microsoft SQL Server & SSIS, implement the schema and extract, transform, and load data from the operational database into the dimension and fact tables of the schema.   [40]

Part 4 (Reporting)

Produce SQL reports (using SQL queries) to support desired analysis of the chosen business process.   [20]

Students must submit a zipped folder containing: -
1. Report (.pdf) answering Parts 1, 2, and 4
2. SSIS package (.dtsx) for Part 3
3. SQL file (.sql) containing queries for Parts 3 and 4

Follow the naming convention:

Report should be named as:

Surname1_Surname2_Surname3.pdf
SSIS package should be name as:
Surname1_Surname2_Surname3.dtsx
SQL file should be named as:
Surname1_Surname2_Surname3.sql
Zipped Folder should be named as:
Surname1_Surname2_Surname3.zip

General Assessment Submission Requirements for Students:

1. Online assignments must be submitted no later than the stated deadline.

2. All relevant provisions of the Assessment Regulations must be complied with. Students are required to refer to the assessment regulations in their Student Guides and on the DBS Quality Assurance Handbook Guide.

3. Extensions to assignment submission deadlines will be not be granted, other than in exceptional circumstances. To apply for an extension please contact the course administrator.

4. Students are required to retain a copy of each assignment submitted.

5. Assignments that exceed the word count (if any) will be penalized.

6. Dublin Business School penalizes students who engage in academic impropriety (i.e. plagiarism, collusion and/or copying). Please refer to the referencing guidelines on Moodle for information on correct referencing.

Late Submission
Assignments submitted after the deadline published in the assessment brief, including any extension, are deemed to be 'late' and are penalized as follows:

- Where an assignment is submitted after the due date, 2 marks a day are deducted.
- Where the assessment is undertaken in a group, the piece of work should be submitted in its entirety, and any penalty for late submission incurred applies to all group members.
- **Please note that for this assignment, no submission will be considered after 7th November 2020.**