Assessment Brief

Module Title:	Data Warehousing & Business Intelligence
Module Code:	B8IT104
Assessment Title:	Continuous Assessment One
Assessment Type:	Practical Assignment
Individual/Group:	Individual/ Group of 2
Assessment Weighting:	50%
Issue Date:	27/01/2021
Due Date/Time:	**Deadline – 11:55 pm on Wednesday 17/02/2021**
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 (Data Modelling)

With the aim of designing a data warehouse for the publisher using Kimball's dimensional modelling, develop a suitable star schema to model publisher's payments to authors. 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.   [30]

Part 2 (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.   [50]

Part 3 (Reporting)

Produce two SQL reports (using SQL queries) to support desired analysis of the publisher's payments to authors.   [20]

Students must submit a zipped folder containing: -
1. Report (.pdf) (max. 1500 words) explaining the schema in Part 1, and results/ analysis in Part 3
2. SSIS packages (.dtsx) for Part 2
3. SQL files (.sql) for Parts 2 and 3

Name the files appropriately. The zipped folder containing these files should be named as:

Surname1_Surname2.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.