Changing lives through learning

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Database Principles and Design

Graded Unit Reference Number: GA33COM04

Ungraded Unit Reference Number: UA33COM04

Module: Computing

Level: 3

Credit Value: 3

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the concepts and features of a relational database	1.1 Compare the organisation of data in a 'flat file' database and a relational database
	1.2 Explain relational database concepts, including entity, attribute, table, record, relationship and referential integrity
	1.3 Define the term 'primary key' and explain the advantage of using key fields in relational databases
2. Understand the need for planning in the design of a relational database from a specification	2.1 Analyse a given system to identify entities and attributes and to explain relationships (one-to-one, one-to-many, many-to-many)
	2.2 Produce an Entity Relationship Diagram and Data Dictionary
	2.3 Explain the term 'normalisation' and normalise a data model
	2.4 Plan the forms, queries and reports that will be used to input and output data from a relational database
3. Produce and test a working database	3.1 Create a relational database with at least five tables, using appropriate field names, data types, keys and relationships

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	3.2	Design forms to facilitate data input
	3.3	Set up queries to retrieve required data and create reports based on these queries
	3.4	Select appropriate data to test the functionality of a database and produce an evaluation

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