BTEC Assignment Brief

Qualification	Pearson BTEC Level 1/Level 2 First Certificate in Information and Creative Technology
Unit Title	Unit 10: Database Development
Learning aim(s)/objective(s)	Learning aim B : design a relational database
Assignment title	Unit 10 Assgt 2: Designing a Database
Assessor	
Start date	04/10/2021
Hand in deadline	05/11/2021

Vocational Scenario (or Vocational Context)	Gamer Zone is an established retail computer gaming company with 10 stores throughout the UK. It sells a vast range of retro computer games throughout its stores but as more of its sales are taking place online, it plans to reduce its 'bricks and mortar' outlets to reflect the change in its business model. Currently, Gamer Zone uses a combination of paper and spreadsheet systems to store and manage the information about its computer games stock, customers and all employee and financial information. Due to its increased online operations, the directors have decided to upgrade their current systems. The directors have decided not to replace all of their systems at the same time. They want to focus initially on a new and improved system that will securely record details of their computer game stock. This will allow time for staff to become confident in using the new systems and software safely and securely before any other changes are made. As an IT employee of Gamer Zone, you have been asked to develop the new computer game stock system.

Task 1:	**Create a Design** Following your presentation, your Manager now understands what a database is and is happy with the move to a new system. You have now been asked to design the relational database for the computer games system. The database is to store details of

	the computer games in stock, computer game genres and the consoles they can be played on, using appropriate fields. You will be expected to include a data set containing at least 50 records to import into the database. Your detailed design documentation should include: • a statement that describes the intended purpose of the new system • a description of the user requirements of the relational • the hardware, software and other resources that will be used • at least two tables with appropriate attributes, g. names, sizes, formats, data types • an entity relationship diagram with at least one example of a one-to-many relationship • validation and verification procedures • input and output screens • at least two data-entry forms for the computer The forms should be customised e.g. with titles, user instructions and logos to meet users' requirements and purpose. • at least one main-menu form that accesses at least two data-entry sub-forms, including options to view queries and reports. The forms should be customised g. with titles, user instructions and logos to meet users' requirements and purpose. • at least five queries that will extract meaningful information • at least three reports that will present meaningful information • a test plan with test data While designing your database, consider alternative solutions, for example the different ways of presenting reports and forms, different table structures, form design etc. These alternatives should be noted at appropriate points within the design documentation. They should not be fully worked-up alternatives. The design documentation should also: • Justify the final design decisions, explaining how the relational database will fulfil the stated purpose and meet the user requirements. • Consider the database constraints, e.g. software availability and whether or not this will have an impact on developing the relational database and whether there are any alternatives for developing the same Explain why these alternative designs were rejected.
Checklist of evidence required	• Design documentation that includes: • intended purpose and user requirements • hardware and software resources • at least two tables with appropriate attributes • an entity relationship diagram

	• validation and verification procedures • input and output screens • at least five queries and three reports • a test plan with test data • design justification
Attachments	• Unit 10 Assgt RetroGameStock Datafile.pdf • Unit 10 Assignment 2 Appendix.docx

Criteria covered by this task:

Criteria reference	To achieve the criteria you must show that you are able to:
2B.P2	Describe the purpose and user requirements for the database.
2B.P3	Produce a design for a relational database, including: • a database structure • a test plan.
2B.M2	Produce a detailed design for a relational database, including: • alternative designs • a detailed database structure • test data.
2B.D2	Justify final design decisions, explaining how the relational database will fulfil the stated purpose and user requirements, and any constraints in the design.

Sources of information to support you with this Assignment	**Books** Allman, E., Jarvis, A., Kaye, A. and McGill, R. (2012) *BTEC First in Information and Creative Technology Student Book*, Pearson Education (ISBN: 978-1-44690-187-8) Textbook designed for this qualification with strong vocational focus. **Websites**

	GCF Global Microsoft Access 2016 Tutorial https://edu.gcfglobal.org/en/access2016/ Microsoft Access Video Training https://support.office.com/en-gb/article/access-video-training-a5ffb1ef-4cc4- 4d79-a862-e2dda6ef38e6 Quackit Microsoft Access 2016 Tutorial https://www.quackit.com/microsoft_access/microsoft_access_2016/tutorial/

FOR 2012 L2 BTEC Firsts: If you have not achieved the Level 2 criteria, your work will be assessed to determine if the following Level 1 criteria have been met.	
Criteria reference	**To achieve the criteria you must show that you are able to:**
1B.3	Produce a design for a database with guidance, including a single table database structure with a data entry form.
1B.2	Identify the purpose and user requirements for the database.

LEARNER ASSESSMENT SUBMISSION AND DECLARATION

When submitting evidence for assessment, each learner must sign a declaration confirming that the work is their own.

Learner name:	**Assessor name:** Rhona Morris	
Start date: 04/10/2021	**Hand in deadline:** 05/11/2021	**Submitted on:**
Qualification: Pearson BTEC Level 1/Level 2 First Certificate in Information and Creative Technology		
Unit name(s): Unit 10: Database Development		
Assignment title: Unit 10 Assgt 2: Designing a Database		

Please list the evidence submitted for each task. Indicate the page numbers where the evidence can be found or describe the nature of the evidence (e.g. video, illustration).

Task reference	Evidence submitted	Page numbers or description
Additional comments to the Assessor:		

Learner declaration

I certify that the work submitted for this assignment is my own. I have clearly referenced any sources used in the work. I understand that false declaration is a form of malpractice.

Learner signature: Date: