

Learner declaration

I certify that the work submitted for this assignment is my own and research sources are fully acknowledged.

Student signature:

Date:

In addition to the above PASS criteria, this assignment gives you the opportunity to submit evidence in order to achieve the following MERIT and DISTINCTION grades

Grade Descriptor	Indicative characteristic/s	Contextualisation
M1 Identify and apply strategies to find appropriate solutions	complex problems with more than one variable have been explored	
M2 Select/design and apply appropriate methods/techniques	a range of methods and techniques have been applied	
M3 Present and communicate appropriate findings	the appropriate structure and approach has been used	
D1 Use critical reflection to evaluate own work and justify valid conclusions	Self-criticism of approach has taken place	
D2 Take responsibility for managing and organising activities	autonomy/independence has been demonstrated	
D3 Demonstrate convergent/lateral/creative thinking	innovation and creative thought have been applied	

Assignment brief

Unit number and title	Unit 33: Data Analysis and Design
Qualification	Pearson BTEC Higher Nationals in Computing and Systems Development
Start date	
Deadline/hand-in	
Assessor	Dr Derek Peacock

Assignment title	Assignment 1: .Database Queries
Purpose of this assignment This assignment will show the importance of structured query languages, in terms of how they can be used to manipulate data and how they are used for a variety of tasks including querying and report writing	
Scenario Valerian Software is a small software development firm newly established that is looking to develop novel dynamic interactive websites that make use of modern web development best practices. You have been recently appointed as a trainee web developer and you are required as part of your job to complete an on-going CPD program which will last two years. You have been asked to investigate alternative ways of creating database queries that can be used as a basis for producing various kinds of reports. You have also been asked to explain the use of control mechanisms	

Task 1 (LO3.1, LO3.3)

You have been asked to create an example of creating database queries using SQL stored procedures, SQL Queries in C# code, the query builder in Web Forms, and the LINQ language in MVC or Web Forms

Critically evaluate these tools and explain their advantages and disadvantages

Task 2 (LO4.5)

Explain TQM (Total Quality Management) and how it has been used in the current projects. Discuss how it could be used more fully, in particular in sign off procedures.

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Evidence checklist	Summary of evidence required by student	Evidence presented
Task 1	Web Pages containing the advantages and disadvantages of four query tools.	
Task 2	Web Pages containing a discussion of TQM.	

Achievement Summary

Qualification	Pearson BTEC Higher Nationals in Computing and Systems Development	Assessor name	Dr Derek Peacock
Unit Number and title	Unit 33: Data Analysis and Design	Student name	
Criteria Reference	To achieve the criteria the evidence must show that the student is able to:	Achieved ? (tick)	
LO3.1	explain the benefits of using manipulation and query tools in a relational database system		
LO3.3	critically evaluate how meaningful data has been extracted through the use of query tools		
LO4.5	explain how control mechanisms have been used		
Higher Grade achievements (where applicable)			
Grade descriptor	Achieved? (tick)	Grade descriptor	Achieved? (tick)
M1: Identify and apply strategies to find appropriate solutions	Not Available	D1: Use critical reflection to evaluate own work and justify valid conclusions	Not Available
M2: Select / design and apply appropriate methods / techniques	Not Available	D2: Take responsibility for managing and organising activities	Not Available
M3: Present and communicate appropriate findings	Not Available	D3: Demonstrate convergent /lateral / creative thinking	Not Available

Assignment Feedback

Formative Feedback: Assessor to Student

Action Plan

Summative feedback

Feedback: Student to Assessor

**Assessor
Signature**

Date

**Student
Signature**

Date