BTEC

Assignment Brief

OAKLANDS COLLEGE

Qualification	BTEC Extended National Diploma in IT
Unit number and title	Unit 18 Database Design
Learning aim(s) (For NQF only)	2. Be able to design, create and populate a relational database 3. Be able to test a relational database
Assignment title	Assessment 2: Pizza Database Build and Test
Assessor	
Hand out date	w/b 30th Oct 2017
Hand in deadline	w/b 27th Nov 2017

Vocational Scenario or Context	Mia's Takeaway Pizza shop has just opened in an area of Leicester where there is little competition. The shops' proprietor Mia Patel has decided that in order for her business to expand further a computerised system is required to manage all the shops' orders. She has heard something about databases but she has no idea what they are or how they will benefit her business. Mia currently stores all regular orders in an Excel spreadsheet. She finds the spreadsheet difficult to use and keeps having to type in the same data for each customer order, which has led to data entry errors. The spreadsheet doesn't effectively retrieve information to resolve the various issues that occur and does not offer her any reporting facilities for printing off documents such as invoices and outstanding payments. The spreadsheet will be provided to you for further analysis. You are an IT student who visits Mia's Pizza shop on a regular basis, she has told you about her situation and you have offered your help in developing database software to deal with Mia's shop orders. In return you will receive free Pizzas for life.

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Task 1	**Task 1** **P4:** Design and implement all the input forms required to provide an easy way to maintain and update all the information in the database. Take care to ensure consistency between input forms. Implement any validation rules, input masks and dropdown boxes you identified in the design stage. You will also need to create an input for customer orders that contains at least one sub-form (ideally 2 sub-forms) *This task can be shared between up to three people provided that each person completes at least one input form with appropriate data validation* **P5:** Create a report that shows all the customers orders, listed on date order with the most recent order first in the list. Create a second report that lists all the pizzas and calculates how many of each type has been sold *This task must be completed individually*
Checklist of evidence required	**P4:** Screenshots of each data input form as well as screen shots of each validation rule, or a printed report from Access listing all the properties of each input field on the input form. *This task can be shared between up to three people provided that each person completes at least one input form with appropriate data validation* **P5:** Screenshots of the database queries used for the customers orders report and list of pizzas sold. *This task must be completed individually*

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
P4	create features in data entry forms to ensure validity and integrity of data
P5	perform queries using multiple tables and multiple criteria

Task 2	**Task 2** **P6:** Add a navigation form to make it easier for the user to open each of the data input forms and the reports. *This task must be completed individually* **P7:** Thoroughly test at least 10 fields that have suitable validation rules implemented *This task can be shared between up to three people provided that each person tests at least 10 different fields.* **M3:** Create a word document that displays a suitable menu of all the available Pizzas based on merged data from the database. This menu should be in a suitable form to be printed for use by customers ordering Pizzas. *This task must be completed individually* **M4:** Make use of VBA or macro code to enhance the functionality of the database. Examples include combining several fields into one field, opening a report from a form, showing to hiding information on clicking a button. *This task must be completed individually* **D2:** Evaluate the completed database and its design identifying its strengths and weaknesses. Suggest improvements and extensions in its functionality, usability and appearance *This task must be completed individually*
Checklist of evidence required	**P6:**.A screen shot of the navigation form, and a screen shot of the macro code used to open the required object. **P7:** A table of black box tests showing that data validation has been tested for at least 10 fields with suitable data for each field **M3:** A word document containing a Pizza menu **M4:** An example macro or VBA code fragment together with a screen shot of its use. **D2:** A report in word evaluating the database and suggesting improvements.

Criteria covered by this task:

Unit/Criteria reference	To achieve the criteria you must show that you are able to:
P6	include an advanced feature in a database design
P7	test a relational database
M3	export data to an external source

M4	implement an automated function
D2	evaluate a database against the specified user need