

Mark Scheme (Results) January 2011

GCE

GCE Applied ICT (6957/01)

Using Database Software



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		Applied GCE	Unit	7 - Mark Sche	me	e - Jan 201	1		
Activit	у			ANSWER				POSS. MARK	MAX
Activity 1		Understanding the	prol	olem					
а		Process	Inp	out		Output			
	A1	Generate/create total cost	pro	antity of oduct st of product		Total cost		1	
	A2	Generate order number		phest existing ler number		"ORD"& h existing or number +1	der	1	
	A3	Generate customer number		hest existing stomerID		Highest ex CustomerI		1	
	A4	Reduce/update stock levels	lev Qu	rrent stock el antity of oduct ordered		New stock	level	1	
		Process		Input	0	Generated	Output		4
b		Select customer		X			·		
	B1	Add order date				Х		1	
	B2	Display message					Х	1	
	B3	Add total cost of or	der			Х		1	
	B4	Select product		Х				1	
	B5	Add order number				Х		1	
	B6	Add quantity of product		Х				1	
									6
						Total for	Activity 1		10

Activity 2		Structure		
а	A1	Customer (table)	1	
	A2	Order (table)	1	
	A3	Product (table)	1	
	A4	Supplier (table)	1	
	A5	1:M Customer - Order	1	
	A6	1:M Product - Order / if five table 1:M Product/Order Items	1	
	A7	1:M Supplier - Product	1	
				7
		Data Types		
b	B1	Evidence of correct primary keys Table Customer - CustomerID Table Order - Order Number Table Product - ProductID		
		Table Supplier - SupplierID	1	
	B2	Evidence of correct data types in product/stock table Cost - Currency Number in stock - Number Re-order Level - Number Re-order Number - Number	1	
				2
2		Validation		Z
С				
	C1	Ignore any titles / accept in any order Any suitable format check (accept input mask on Order Number if it includes "ORD" and the inclusion of 3 digits eg "ORD"000 or >"ORD"000) (Note if using Autonumber +format check on Order Number for Activity 3)	1	
	C2	Any suitable range or validation rule eg Reorder Number between 3 and 20 Number ordered >=1	1	
	C3	Presence check - Has to be postcode	1	
	C3	List Check or Lookup (accept lookup on CustomerID, SupplierID or ProductID) limit to list yes List box by default is set to no edits (allow if cannot see all properties)	1	
		Note the same field can be used to show more than one of the above.		
				4

d			Solution 1	Solution 2	Solution 3		
	D1 *	Customer	246	236	236	1	
	D2	Order	252	230	252	1	
	D3	Product	15	15	15	1	
	D4	Supplier	4	4	4	1	
			*	-	· ·		4
				Tot	al marks for Activity 2	2	17

*If Five Table check Order Items Table

Activity	3	Add Order Form - Design view AND Form view	
a(i)	A1	Fields include (from any view) CustomerID Order Date ProductID Number Ordered Cost	1
	A2	Can select CustomerID	1
	A3	Can select ProductID	1
a(ii)	A4	Automation of the date One of: • New text box =Date() /=Now() • Default value in properties of Order Date =Date()/=Now()	3
a(iii)	A5	Order Total correctly calculated =[Number Ordered]*[Cost]	1
a(iv)		 This is the generation of the primary key. It may have been done: on the form using a query using Format + autonumber 	
		Eg using form or query ="ORD" & Right(Max([Order Number],3))+1 Right is fine even though any higher than 999 would not really work properly - don't penalise for not thinking past the data in the tables. Note follow through from table design ie if input mask of "ORD" etc used do not penalise for ORD being missing here	
	A6	Has Max([Order Number]) or something equivalent	1
	A7	Has Right(Max([Order Number],3))	1
	A8	Solution that would work Eg Right(Max([Order Number],3))+1	1
	A9	In the Order Table using Format "ORD" followed by three or more zeros ("ORD"000) + field type AutoNumber	3
		Max 3	3

a(v)	A10	Looking for suitable customisation		
		1 mark for any two of:		
		suitable title		
		labels		
		layout		
		Money values as £ with 2 decimal places	1	
	A11	Plus		
		Some form of sensible user aid(s)		
		1 mark for one of:		
		instructions how to use share instructions and customer in the select Customer		
		changing label on CustomerID to Select Customer		
		changing label on ProductID to Select Product disabling fields that are generated		
		 disabling fields that are generated asterisks on fields they have to enter data into 		
		 grouping of data logically 	1	
			2	
			2	10
b	B1	Update stock query		
		Criteria links it to correct ProductID	1	
	B2	Would update correctly ie update to		
		[Number In Stock] - [Number Ordered]	1	
				2
С		Saving Order Implementation		
	C1	Save button created	1	
	C2	Automated method of running query from B	1	
	C3	Appropriate save message displayed	1	
	C4	Update query has to be OpenQuery		
		If unbound form append query needed		
		Eg if append query used for primary key expect OpenQuery		
		If autonumber used expect action save Record would save correctly	1	
	C5	All actions carried out on one button	1	
				5
d		Add New Customer Form - Design View and Form View		
d(i)	D1	Must include all these fields:		
. /		CustomerTitle		
		 CustomerFirstName CustomerLastName 		
		 CustomerLastname CustomerAddress Line 1 	1	

CustomerTown	
CustomerCounty	
CustomerPostCode.	

d(ii)	D2	Correct calculation of new CustomerID =Max([CustomerID])+1 or something that would work		
		=DMAX("CustomerID","Table Name")+1		
		Award if CustomerID set to autonumber in table.	1	
d(iii)	D3	Looking for suitable customisation		
		1 mark for any two of: • suitable title		
		 suitable title labels 		
		layout	1	
	D4	Plus		
		Some form of sensible user aid(s)		
		1 mark for one of:		
		instructions how to use		
		 disabling fields that are generated 		
		 asterisks on fields they have to enter data into 		
		grouping of data logically	1	
			2	
				4
е		Saving Customer details		
	E1	Save button created	1	
	E2	Appropriate save message would display	1	
	E3	Evidence that it would save		
		If unbound form there has to be an append query		
		Eg if append query used expect actions OpenQuery		
		If autonumber used expect action save		
		If wizard used accept	1	
	E4	All actions carried out on one button	1	
-				4
f		New Customer from Order Form		
f(i)	F1	New Customer button added to Order Form	1	
f(ii)	F2	Macro/code created that would open the new Customer Form	1	
	F3	When form opens would go to a blank Add Customer form	1	
			2	
f(iii)	F4	Macro attached to new customer button	1	
				4
		Total marks for Activity 3		29

Activity 4		Testing		
а		New Customer form Mrs Marion Jones 133 Seymour Gardens Heartfield Moreshire HE3 4EE		
a(i)	A1	Entered on form correctly	1	
a(ii)	A2	Message telling user it has been saved	1	
	A3	Stored in customer table correctly primary key minimum of 21001	1	
			2	
a(iii)	A4	Screenshot of PR118 in product table showing number in stock before order	1	
a(iv)		Add Order form Product - PR118 Number Ordered - 2		
	A5	Correct Order Information	1	
	A6	Order Total Correct - £11.98	1	
	A7	Stored in Order table correctly	1	
	A8	Screenshot of PR118 in product table showing number in stock after order. Has gone down by number ordered		
		correctly	1	
			4	
				8
b	B1	Error message indicating that no postcode has been entered	1	
		Total for Activity 4		9

Activity 5		Producing Stock Check Report	
		Marked from Design View of Query	
а	A1	Criteria correct, would find only the products that need reordering (below the Re-Order Level)	1
	A2	Would find products on or below the Re-Order Level	1
			2
		Marked from DESIGN view of REPORT	
b(i)	B1	Grouped by Supplier eg SupplierID, Supplier name	1
	B2	Suitable title in page header	1
			2
b (ii)	B3	Supplier header should show SupplierID Name Address 	1
	B4	Labels for ProductID Description Console Cost Number in Stock Re-Order Level Re-Order Number	1
			2
b(iii)	B5	Detail section should show ProductID Description Console, Cost Number in Stock Re-Order Level Re-Order Number	1
	B6	Total Cost per Product calculated	
		=[Reorder Number]*[Cost] - could be in query	1
			2
		Total Number of Products Per Supplier calculated.	
b(iv)	B7	Correct calculation eg =sum([Re-Order Number]) =sum([generated field name]) - if they have done total cost in the query	1
	B8	Suitable label	1
	B9	In the Supplier Footer	1
			3

b(v)		Marked from report view (Must have Design View of report to award these marks)		
	B10	Not just default layout	1	
	B11	All information can clearly be seen. Nothing truncated.	1	
	B12	Total cost formatted to currency with 2 dp	1	
			3	
		Total marks for Activity 5		14

Activity 6	Evaluation	
QWC adjust expectation	student in correct mark band based on content. ment can only reduce mark within band. This must be based on the within the mark band. Marks cannot be added and the adjustment ca a different mark band.	annot put
Indic	ative content	
	the prototype is fit-for-purpose and the evidence you have to reach this conclusion	
requ	uation of fitness for purpose based on Roderic's irements:	
I. A	dding New Orders, which involves:	
	selecting a customer and productentering the quantity of the product required	
	 entering the quantity of the product required automatically assigning the order date 	
	 determining the total cost of the order 	
	 the generation of a new sequential order number which always begins ORD 	
	 storing the order details somewhere suitable 	
	reducing stock levels	
	 providing a message to the user so they know what is happening. 	
2. A	dding New Customers, which involves:	
•	adding the customer details ensuring the postcode is present the generation of a new sequential CustomerID	
•	storing the customer details somewhere suitable providing a message to the user so they know what is happening.	
n p	roduce Stock Checks - A printout of the products Roderic eeds to order including the supplier details, how many of each roduct and costs. The printout will need to look professional nd be easy to read.	

	ark band 1 and 2 additional functionality could be based on nas not been done or only partly achieved.	
e.g.		
•	Calculations not working that should work	
٠	Queries that did not work that should etc etc	
For m initial	ark band 3 should include some improvements beyond the brief.	
e.g		
•	Could have produced Invoices	
•	Could allow customer to buy different products on the same order	
•	Could have user name and password system	
•		
•	Archiving orders after a time	
•	Deleting orders. Products, customers	
•	Better tracking of orders, when despatched etc	
•	Tracking payment of orders	
•	Should have had two costs for products ie buying and selling.	
	He never makes any money.	
•	Upgrading to be web based to allow customers to order online	

Level	Mark	Descriptor			
0	0	No rewardable material.			
Level 1	1-3	The candidates will make basic comments on what they did and how this produced a solution. Some screenshots may be provided as evidence. Comments on possible improvements will be made but unsupported and at a basic level. Descriptive rather than evaluative.			
		The candidate uses everyday language and the response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.			
Level 2	4-6	Addresses both evaluation and identification of future improvements. Gives subjective, but realistic, comments about improvements but these are not always well supported. Evaluative comments about the database (not what they did) with weaknesses as well as strengths noted.			
		The candidate uses some terms and shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.			
Level 3	7-9	Addresses both evaluation and identification of future improvements in some depth. Future improvements will extend the original specification. (Technical solutions for suggested improvements are not necessary.)			
		The candidate uses a range of appropriate terms and shows good focus and organisation. Spelling, punctuation and the rules of grammar used with considerable accuracy.			

SWW1	Administration details on each page	1	
SWW2	Required printouts only assembled correctly	1	
	Total Marks for Standard ways of working		2
	Total marks for Paper		90

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