

Mark Scheme (Results)

Summer 2021

Pearson Edexcel International Advanced Subsidiary In Information Technology (WIT14) Unit 4

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question number	Ansv	ver	Additional Guidance	Mark				
1(a)(i)	Presence check and format check for contact_telephone							
	A1	Presence check on contact_telephone field Required set to yes OR validation rule of 'Is Not Null'	Does not need validation text as no mark for given that	1				
	A2	Input mask or suitable validation rule on contact_telephone field Input mask 00000000000	Accept alternatives e.g. suitable validation rule	1				
		Input mask 0000000000;;_	Must be for the format of the telephone number given in the database					
			Total	2				
1(a)(ii)	List check for quiz_day							
	А3	List box or combo box added to quiz_day field	Must see field it is applied to.	1				
			Should be design view but can accept datasheet view.					
	A4	Correct values Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday	Accept datasheet view so long as can see all the values. Accept any order of days. Accept spelling errors	1				
	A5	Limit to list set to Yes	/Accept spenning errors	1				
			Total	3				
1(a)(iii)		Data type for wheelchair access		1				
	A6	Yes/No		1				
			Total	1				

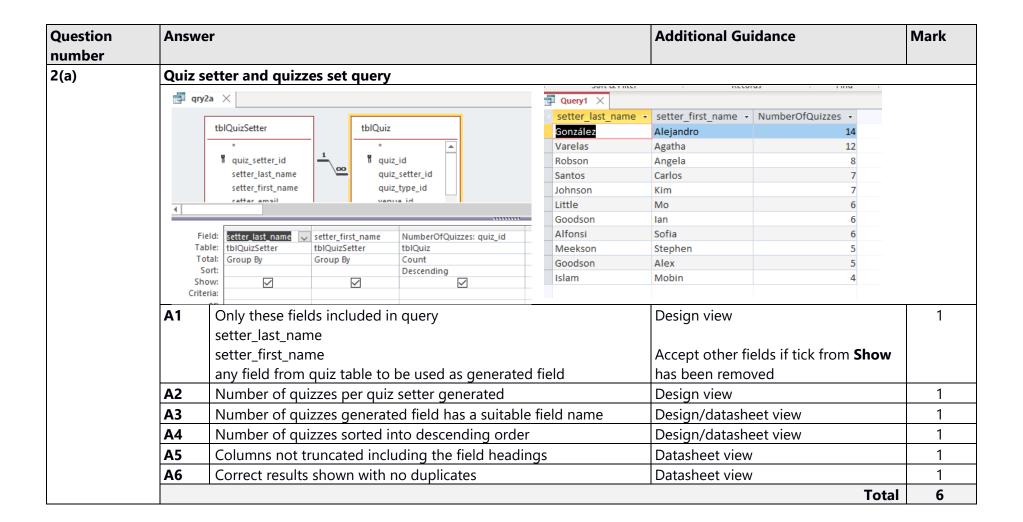
Question number	Answ	ver	Additional Guidance	Mark
1(b)	Edit v	venue form		
	B1	Form includes all of the fields from the venue table		1
		venue_id		
		venue_address		
		postcode		
		venue_contact_person		
		contact_telephone		
		wheelchair_access?		
		quiz_day		
	B2	venue_id is disabled		1
	В3	Combo/List box has been added to select a venue address	Do not need to see any values for the combo box	1
	B4	 One from: Form labels are appropriate (not database field names) Form has meaningful title Entry boxes on form are resized appropriately to reflect the data they will be used to enter Instructions on how to use Asterisk on any field except venue_id 		1
	B5	Form would update to show the venue details for the venue selected in the combo box	Must see design view method	1
	В6	Button present and suitably labelled e.g. Close		1
	В7	Suitable message would display to say the data has not been saved	Must see design view method	1
	В8	No more than one suitable message would appear ONLY if changes have been made.	Must see design view method	1
			Total	8

Question	Answer	Additional	Mark
number		Guidance	
1(c)	Indicative content		9
	Analysis		
	Field called quiz_day in the table.		
	It is atomic as it only has one day of the week in it.		
	 It has a list check on it that means the user can only select 1 day of the week as the value for it. 		
	 Primary key of venue_id cannot be repeated in the table so cannot add another row for a venue that needs quizzes on more than one day. 		
	 If the primary key was removed and further rows added for each venue that has quizzes on more than one day there would be redundant data. 		
	Recommendations		
	Create a new table called quiz days.		
	 Remove the quiz_day field from the venue table 		
	 Have a composite primary key of venue_id and quiz_day so that the venue_id could 		
	 be repeated as many times as needed so long as the day of the week was different Could keep the list check on the quiz_day field 		

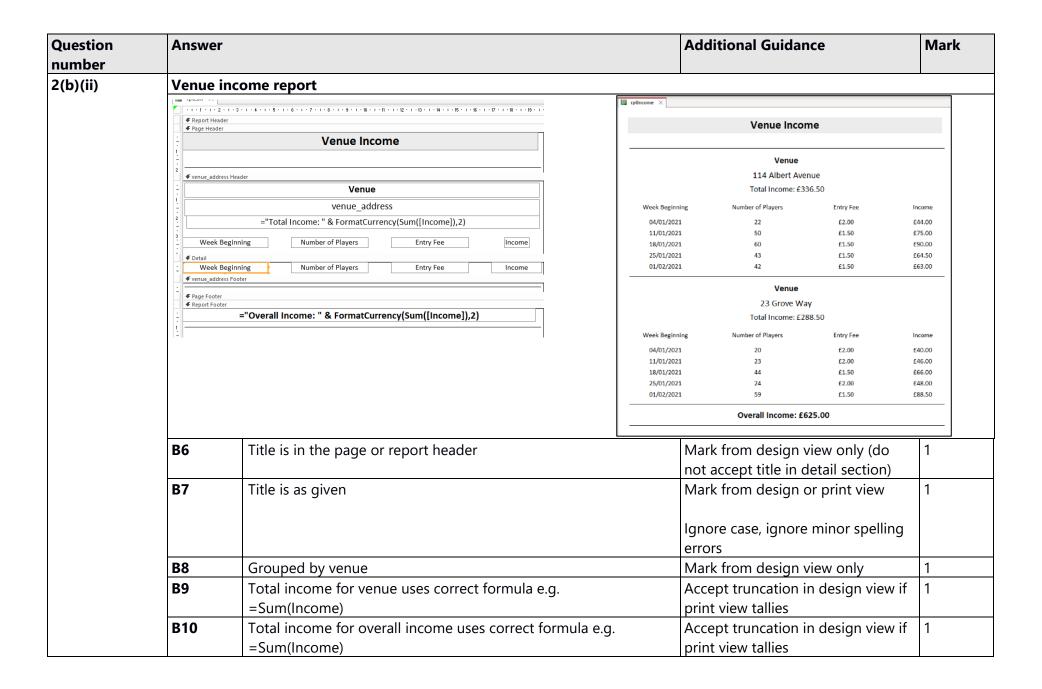
Level	Mark	Descriptor
	0	No Awardable content
Level 1	1-3	 Analysis is flawed or superficial, containing simple statements that show limited understanding of the subject matter. Solution may contain some aspects that are appropriate, but is generally ineffective.
Level 2	4-6	 Analysis is sound, containing minor inaccuracies or omissions, showing some understanding of the given issue. Solution is workable but may have minor issues.
Level 3	7-9	 Analysis is sound and developed, containing ideas that are linked together in a fluent and logical way, showing a thorough understanding of the given issue. Solution is appropriate and workable.
	·	Total for question 9

Question number	Answer		Additional Guidance	Mark
1(d)	Table S	tructure		
	D1	tblSetter quiz_setter_id setter_last_name setter_first_name setter_email tblQuiz quiz_setter_id quiz_setter_id venue_id quiz_setter_id venue_id quiz_setter_id venue_id quiz_setter_id venue_id quiz_type_id quiz_week_beginning_date num_players num_teams tblQuiz tblQuizType quiz_type_id quiz_type_id quiz_type_id quiz_type_id quiz_type_id quiz_type_id quiz_type_id quiz_type_id quiz_type		1
	D2	Quiz table is present with correct fields	Fields may be	1
	D3	Setter type table is present with correct fields	named differently	1
	D4	Quiz type table is present with correct fields		1
	D5	1:M relationship between Setter and Quiz	Relationship must	1
	D6	1:M relationship between Quiz type and Quiz	be in the correct	1
	D7	1:M relationship between Venue and Quiz	direction	1
	D8	Correct primary key used for Quiz type table	Fields may be	1
	D9	Correct primary key used for Setter table	named differently	1
	D10	Correct primary key used for Quiz table		1
	D11	Date/Time is used for quiz_week_beginning_date And At least one suitable number field is present • num_players • num_teams	Fields may be named differently	1
			Total	11

Question number	Ansv	ver Additional Guidance	Mark
1(e)	Impo	ort	
	E1	Quiz table – 80 records	1
	E2	Quiz type table – 6 records	1
	E 3	Setter table – 11 records	1
		Total	3
		Total for question 1	37



Question number	Answ	er	Additional Guidance	Mark
2(b)(i)	Venue	e income query		
	dry_rep	ort X		
		tblQuiz * *	entry_fee: llf([num_players]>30,1.5,2) income: [num_players]*[entry_fee	e]
		venue_id venue_address postcode venue_id	Expression Expression	
		venue_contact_pers(quiz_type_id contact_telephone quiz_week_beginnir		
		wheelchair_access? num_players quiz_day num_teams	<u> </u>	
	4			
	Field: Table:			
	Total: Sort:	Group By Group By		
	Show: Criteria: or:	"23 Grove Way" Or "114 Albert Avenue"		
	B1	Only the correct related tables added (venue, quiz)	Must see in the tables in the top part of the query	1
			Do not penalise if the relationship between the tables is not shown	
	B2	Criteria correct for venue_address or venue_id • "23 Grove Way" or "114 Albert Avenue" • 1 or 6	Mark from design view	1
		Calculation for entry fee		
	В3	 1.5 if the number of players is > 30 OR 2 if the number of players <=30 	Mark from design view	1
	B4	 1.5 if the number of players is > 30 AND 2 if the number of players <= 30 	Mark from design view	1
		• 2 if the number of players <=30 Calculation for income		
	B5	Calculation for income:	Mark from design view	1
		num_players*entry fee	Follow through on any errors in entry fee	'
			Total	5



B11	Total Income calculated in venue header –view	Mark from design view only	1
B12	Overall Income calculated in report footer	Mark from design view only	1
B13	Monetary values formatted as currency for generated fields	Mark from design or print view	1
B14	Report is as given	Checking spelling, case, layout etc,	1
		truncation vertical/horizontal.	
		Total	9
		Total for question 2	20

Question number	Answ	er			Additional Guidance		Mark
3(a)	Quer	y for Chart	tblQuizType * quiz_type_id quiz_type	<u>∞</u>	tblQuiz * quiz_id quiz_setter_id venue_id quiz_type_id quiz_week_beginning_date	_	
		Tal To S	bble: tblQuizType 1 otal: Group By 6 oort: oow: ✓	Times U tblQuiz Count >=14			
	A1	No inappropriate fields included	1		Mark from design vie Must include more th Accept extra fields if t		1
	A2	Times used calculated correctly • Count(quiz_id)			Mark from design vie	ble is appropriate for the	1
	A3	Criteria correct for number of tir >=14 >13	mes used		Mark from design vie	v Total	1

Char	Quiz types that have been used 14 or more times 18 16 16 14 19 10 16 14 14 14 14	Quiz types that have been used 14 or more times General Knowledge History Music	
	18 16 16 14 14	■ General Knowledge ■ History ■ Music	
	General Knowledge History Music Quiz Type General Knowledge History General Knowledge History	Times Used • 14 16	
	chart must be created using database software to achieve		
			1
B3		Must be on the chart itself	1
B4	Bar/column • At least one axis shows suitable label Pie	Must be on the chart itself	1
B5	Bar/column	Must be on the chart itself	1
	B1 B2 B3 B4	The chart must be created using database software to achieve B1 Bar/column/pie chart created B2 Meaningful chart title used B3 Axis shows quiz type (or legend for pie chart) B4 Bar/column • At least one axis shows suitable label Pie • Data values are shown B5 Bar/column • Axis contains suitable scale • Or data values are shown	The chart must be created using database software to achieve any of these marks B1 Bar/column/pie chart created B2 Meaningful chart title used B3 Axis shows quiz type (or legend for pie chart) B4 Bar/column • At least one axis shows suitable label Pie • Data values are shown B5 Bar/column • Axis contains suitable scale • Or data values are shown Pie

В6	Chart is fit for purpose Bar/column	Ignore case and minor spelling errors Report must show chart only and not	1
	 No legend Appropriate sizing of elements on page (e.g. title larger than axis labels, data labels) 	any other information	
	Appropriate sizing of elements on page (e.g. title larger than legend labels, data labels)		
		Total	6
		Total for question 3	9

Question number	Ansv	ver	Additional Guidance	Mark			
4	Dashboard						
	A1	Appropriate heading and at least 2 appropriately labelled	Button labels must be written to help	1			
		buttons	the user e.g. not Open query 2(a)(i)				
	A2	Data edit form would open	Macro/code	1			
	A3	Query from 2(a)(i) would run	Macro/code	1			
	A4	Message box with appropriate message would appear when button clicked	Macro/code	1			
	A5	Chart or query would open depending on the option chosen	Macro/code	1			
			Must not be two separate buttons				
			Total	5			
	•		Total for question 4	5			

Question	Answer	Additional Guidance	Mark	
number				
5	Indicative content		9	
	Factors			
	 Presence check used when the data must be present before the record is saved 			
	 Range check used when there is a specific range of values for a field 			
	 Lookup check used to lookup data from another table 			
	 List check used when there is a specific list of values for a field 			
	 Format (picture) check used when a field has exactly the same format for each value 			
	 Length of data check used when the length of the data in a field has to be limited 			
	Consideration and significance			
	Setter table			
	Presence: setter_last_name and setter_email			
	Format check: email			
	Quiz type table			
	Presence: quiz_type field			
	Quiz table			
	 Presence: all non-key fields other than num_player and num_teams (cannot be sure 			
	quiz is created after or before the quiz takes place)			
	 quiz_setter_id, quiz_venue_id, quiz_type_id lookup checks. All foreign keys so can 			
	lookup to the tables where they are primary keys			
	Range checks would not be suitable in any of the tables.			
	List checks would not be suitable in any of the tables.			
	Length of data checks could be set on all text fields as none would use 255 characters.			

Level	Mark	Descriptor	
	0	No Awardable content	
Level 1	1-3	Applies understanding with limited coherence, showing limited understanding of the given issue.	
		Assessment of solution is superficial or unbalanced, and judgements lack support from evidence.	
Level 2	4-6	 Applies understanding to make some coherent connections, showing some understanding of the given issue. Assessment of solution is partially developed, but this may be unbalanced, using evidence to support some judgements. 	
Level 3	7-9	 Applies understanding coherently, showing a thorough understanding of the given issue. Assessment of solution is balanced and developed, using evidence to support judgements throughout. 	
		Total for question 9	

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