

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			
	A	Entitle to list set to 163	Total	3			
1(a)(iii)		Data type for wheelchair access					
	A6	Yes/No		1			
			Total	1			

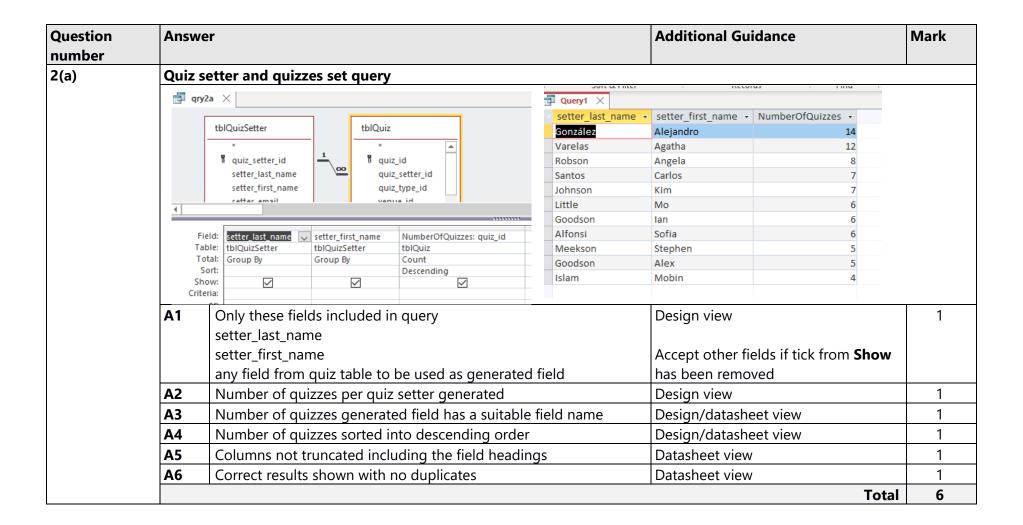
Question number	Answ	ver	Additional Guidance	Mark		
1(b)	Edit venue form					
	B1	Form includes all of the fields from the venue table		1		
		venue_id venue_address postcode venue_contact_person				
		contact_telephone wheelchair_access? quiz_day				
	B2	venue_id is disabled		1		
	В3	Combo/List box has 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		
	В5	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 number	Answer	Additional Guidance	Mark
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		

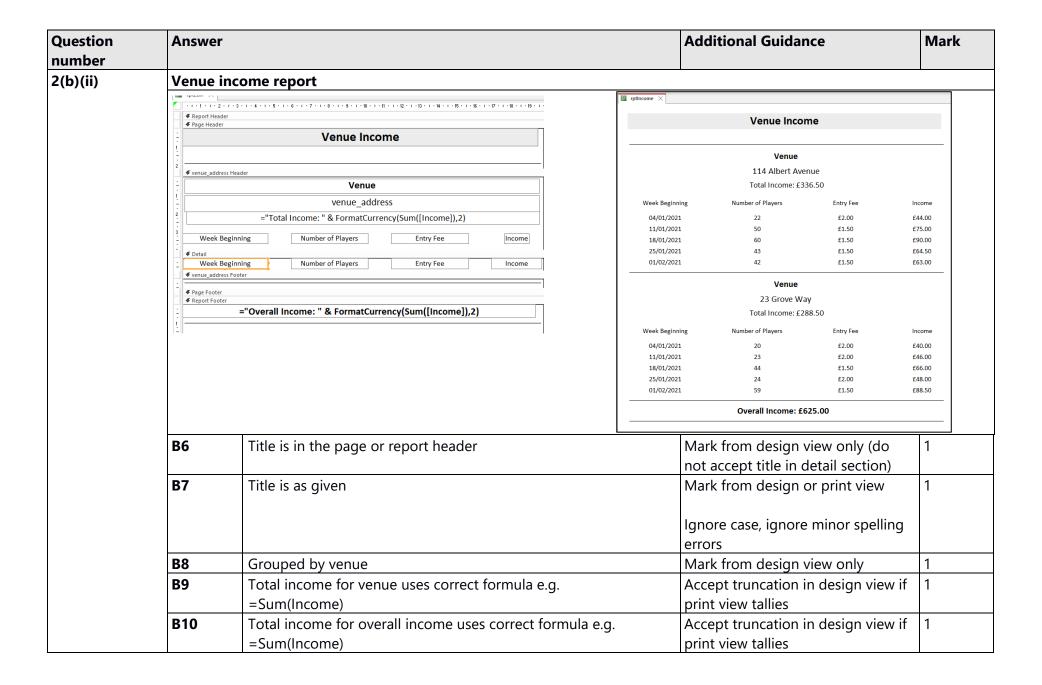
Level	Mark	Descriptor
	0	No Awardable content
Level 1	1-3	Analysis is flawed or superficial, containing simple statements that show limited understanding of the subject matter.
		Solution may contain some aspects that are appropriate, but is generally ineffective.
Level 2	4-6 • Analysis is sound, containing minor inaccuracies or omissions, showing some understanding of the given in	
		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.
	<u> </u>	Total for question 9

Question number	Answe	r	Additional Guidance	Mark
1(d)	Table 9	Structure		
		tblSetter quiz_setter_id setter_last_name setter_first_name setter_email tblQuiz tblQuiz tblQuiz tblQuiz tblQuiz tblQuiz		
	D1	Use of appropriate table and field names and naming conventions		1
	D2	Quiz table is present with correct fields	Fields may be	1
	D 3	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	Fields may be named differently	1
		num_teams	Total	11

Question number	Answer Additional Guidance		Mark
1(e)	Imp	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



uestion umber	Answ	er	Additional Guidance	Mark
(b)(i)	Venu	e income query	<u>'</u>	
	qry_rep	oort X		
	t	blVenue tblQuiz		
		* * * * * * * * * * * * * * * * * * *	entry_fee: llf([num_players]>30,1.5,2) income: [num_players]*[entry_fee	·]
		venue_address quiz_setter_id postcode venue_id	Expression Expression	
		venue_contact_pers(quiz_type_id contact_telephone quiz_week_beginnir		
		wheelchair_access? num_players quiz_day num_teams		
	1			
	Field:	venue_address quiz_week_beginning_date num_players: num_players		
	Total: Sort:			
	Show: Criteria:			
	or			
	B1	Only the correct related tables added (venue, quiz)	Must see in the tables in the top part of	1
			the query	
			Do not penalise if the relationship	
			between the tables is not shown	
	B2	Criteria correct for venue_address or venue_id	Mark from design view	1
		 "23 Grove Way" or "114 Albert Avenue" 		
		• 1 or 6		
		Calculation for entry fee		
	В3	1.5 if the number of players is > 30	Mark from design view	1
		OR		
		 2 if the number of players <=30 		
	B4	1.5 if the number of players is > 30	Mark from design view	1
		AND		
		2 if the number of players <=30		
		Calculation for income		
	В5	Calculation correct 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, truncation vertical/horizontal.	1
	·	Total	9
		Total for question 2	20

Question number	Answ	er		Additional Guidance	Mark
B(a)	Quer	for Chart			<u> </u>
		tblQuizTy	pe	tblQuiz	
		* quiz_		* quiz_id quiz_setter_id venue_id quiz_type_id quiz_week_beginning_date num_players num teams	
		Field: Quiz T; Table: tblQuic Total: Group Sort: Show: Criteria: or:	Type tblQui		
	A1	No inappropriate fields included		Mark from design view Must include more than one field	1
				Accept extra fields if tick from Show has been removed	
	A2	Times used calculated correctly • Count(quiz_id)		Mark from design view Any field from quiz table is appropriate for the count	1
	А3	Criteria correct for number of times use >=14 >>13	d	Mark from design view	1
		▼ /13		Total	2

Question number	Ansv	ver	Additional Guidance	Mark
3(b)	Char	t		
		Quiz types that have been used 14 or more times	Quiz types that have been used 14 or more tim General Knowledge History Music	es
		16 16 16 16 16 16 16 16 16 16 16 16 16 1	16 14	
		Quiz Type	Times Used - 14 16 16 16	
		chart must be created using database software to achieve	any of these marks	
	B1	Bar/column/pie chart created		1
	B2 B3	Meaningful chart title used Axis shows quiz type (or legend for pie chart)	Must be on the chart itself	1
	В4	Bar/column • At least one axis shows suitable label Pie • Data values are shown	Must be on the chart itself	1
	B5	Bar/column	Must be on the chart itself	1

E	B6	Chart is fit for purpose Bar/column No legend Appropriate sizing of elements on page (e.g. title larger than axis labels, data labels) Pie Appropriate sizing of elements on page (e.g. title larger than legend labels, data labels)	Ignore case and minor spelling errors Report must show chart only and not any other information	1
			Total	6
			Total for question 3	9

Question number	Answ	ver	Additional Guidance	Mark
4	Dash	board		
	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
	А3	Query from 2(a)(i) would run	Macro/code	1
	Number of times quiz type used			
	A4	Message box with appropriate message would appear when button clicked	Macro/code	1
	A 5	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	

