

Mark Scheme (Results)

October 2021

Pearson Edexcel International Advanced Subsidiary In Information Technology (WIT14/ 01) 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			Mark	
number 1(a)i	Dre	sence check and format check for LastName	Guidance	
i(a)i	A1	Presence check on LastName field Required set to yes OR validation rule of 'ls Not Null'		1
	A2 A3	Input mask or suitable validation rule on LastName field		2
		Force uppercase for first letter (1) Max of 24 lowercase characters (1)		
		Input mask >L ????????????????????</td <td></td> <td></td>		
		T ₌	Total	3
1(a)ii		Data type	T	I 4
	A4	Availability set to Yes/No OR Email set to Hyperlink		
			Total	1

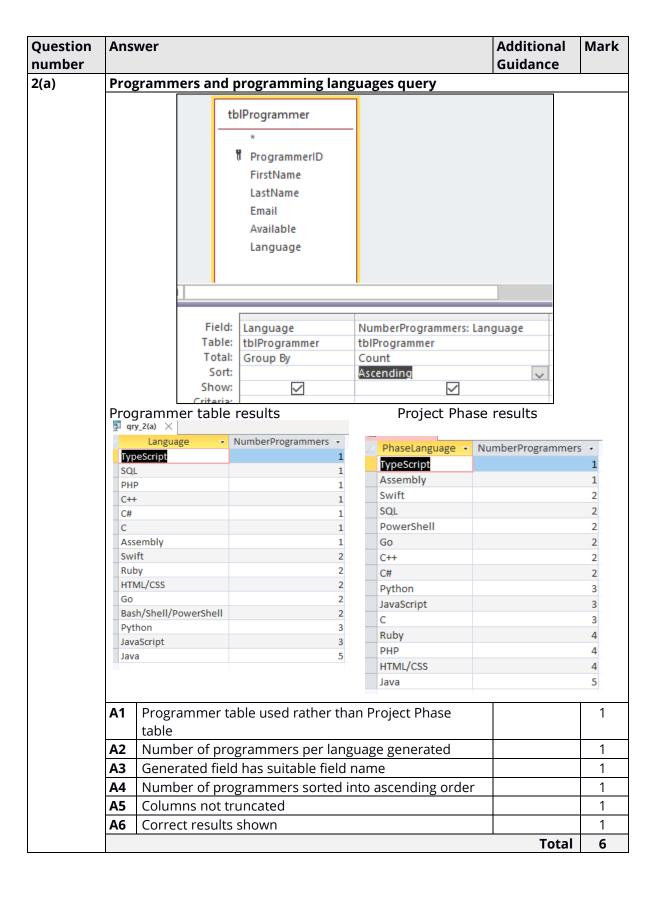
Question number	Answer		Additional Guidance	Mark
1(b)	Edit	venue form		
	B1	Form does not include Language field		1
	B2	ProgrammerID is disabled		1
	В3	 Three from: Form labels are appropriate (not database field names) Form has meaningful title Entry boxes on form are resized appropriately to reflect the data they will be used to enter Instructions on how to use Asterisk on any field except ProgrammerID ProgrammerID or Email fields disabled 		1
	B4	Button present and suitably labelled e.g. Save/ image of a disc		1
	B5	Email address would be generated FirstName.LastName@gmpost.com		1
	В6	FirstName, LastName, Email, Available would save in programmer table		1
	В7	Save message would display		1
	B8	Save message would display only if record has saved		1
			Total	8

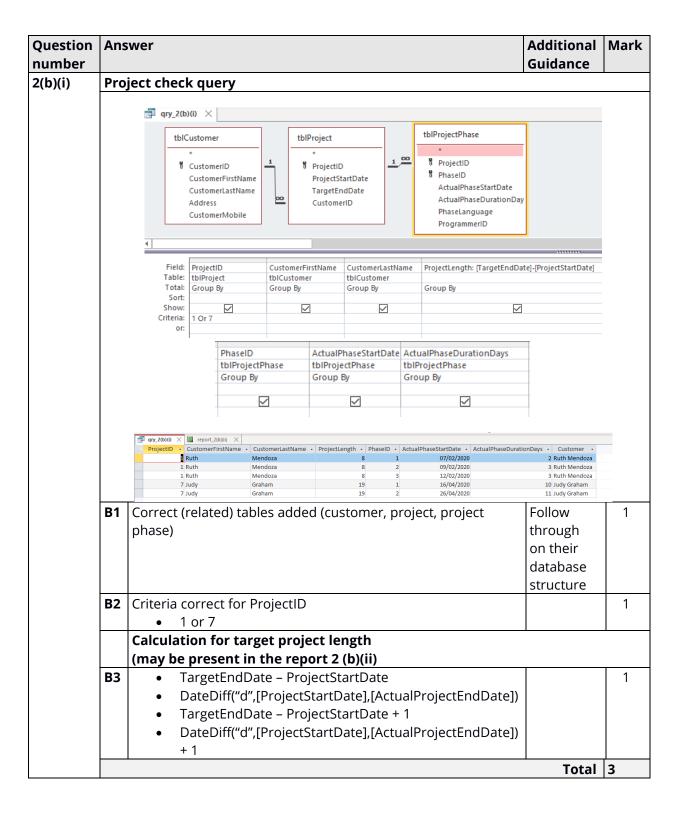
Question number	nswer		Additional Guidance	Mark
1(c)	able Structure			
	CustomerlastName	Project ProjectID ProjectStartDate TargetEndDate CustomerID tblProjectPhase TrojectID ProjectID ProjectID ProjectID ProjectID ProjectID PhaseID ActualPhaseStartDate ActualPhaseDurationDays PhaseLanguage ProgrammerID	tblProgrammer ProgrammerID FirstName LastName Email Available Language	
(Use of appropriate to conventions	able and field names and naming		1
(2 Customer table is pr	esent with suitable fields		1
Ī	·	ent with suitable fields		1
(present with suitable fields		1
(1:M relationship bety	ween Customer and Project		1
(1:M relationship bety	ween Project and ProjectPhase		1
•		ween Programmer and		1
	Appropriate primary	key used for Customer table		1
•	Appropriate primary	key used for Project table		1
•	10 Appropriate compos	ite key used for ProjectPhase		1
	Date/Time is used fo TargetEndDate, Actu And Text used for Custon And Number used for Ph	nerMobile		1
-	Trainber asca for Fit	asebarationibays	Total	11

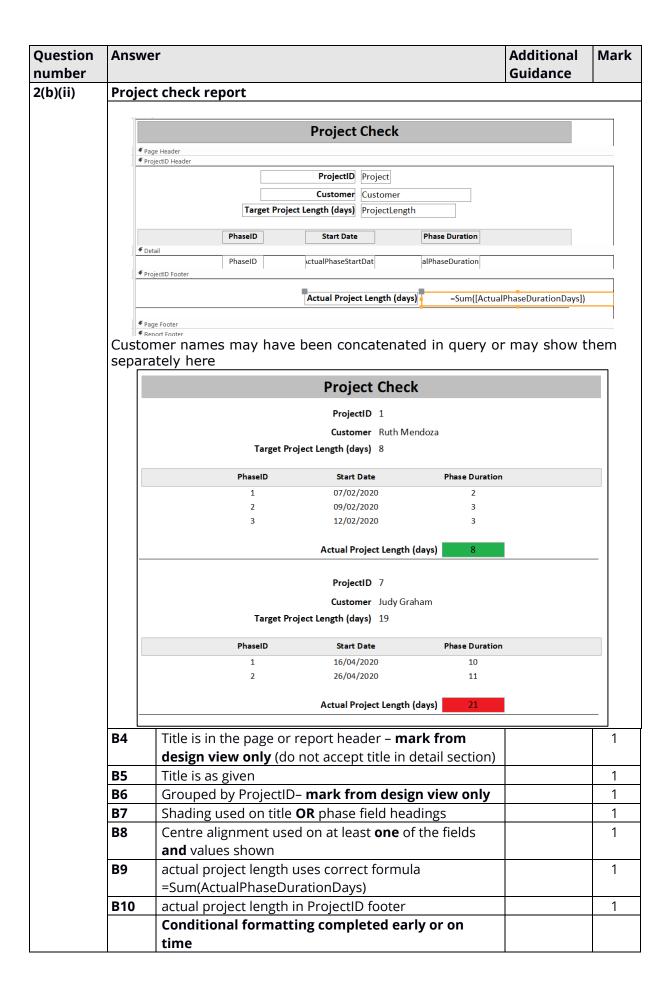
Question number	Answer Additional Guidance		Mark
1(d) Import		ort	
	D1	Customer table – 21 records	1
	D2	Project table – 35 records	1
	D3	Project Phase table – 40 records	1
		Total	3

Question number	Answer	Mark
_	Indicative content Analysis There is more than one record for each programmer. This means there is data redundancy. Each programmer has multiple primary keys associated with them. Some of the details for a programmer do not match e.g. Nicole Chapman has one record where FirstName is Nicola and email is different. Rose Boyd has one record where FirstName is Rosie and the email is different. This means the data is inaccurate and has led to anomalies. There could be further anomalies if any of the details needed to be updated. There is a 1:M relationship between the programmer and the languages because a programmer can use more than one language. This is why there is more than one record for each programmer Recommendations Create a new table called tblLanguage. Put it in a the tblLanguage and have a primary key called LanguageID Make a note of the languages each programmer can use Delete the language field from tblProgrammer Remove all duplicate records from tblProgrammer	9
	 Create a new table called tblProgrammerLanguage Make a composite key of LanguageID and ProgrammerID Create the records to link each programmer with the languages they can use 	

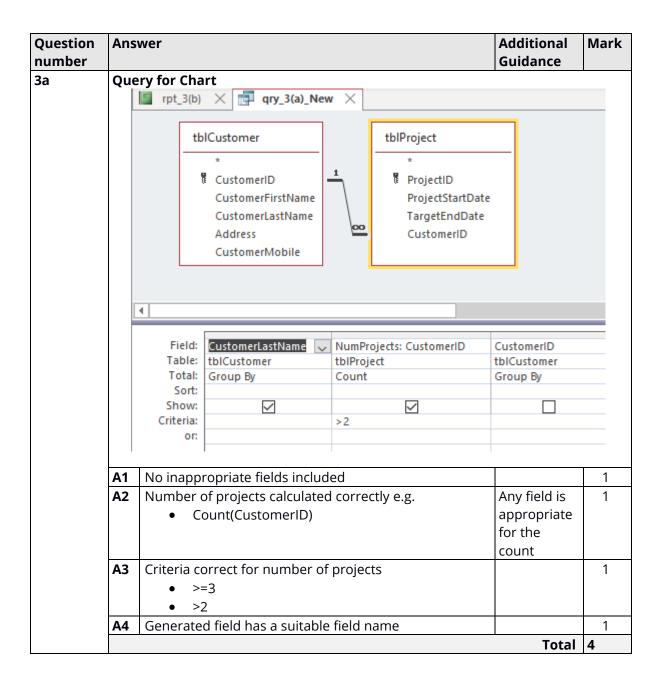
Level	Mark	Descriptor
	0	No Awardable content
Level 1	1-3	 Analysis is flawed or superficial, containing simple statements that show limited understanding of the subject matter. Solution may contain some aspects that are appropriate, but is generally ineffective.
Level 2	4-6	 Analysis is sound, containing 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 9
		Total for question 1 35







B11	Rule added to check actual project length is less than	1
	or equal to the target project length	
	Conditional formatting project took longer	
B12	Rule added to check actual project length is greater	1
	than the target project length	
B13	Red or green background added	1
B14	Report is as given	1
	Tota	11
	Total for question 2	20



Question	Ans	wer	Additional	Mark
number			Guidance	
3b	Cha			
		Chart data		
		rpt_3(b) X qry_3(a)_New X		
		∠ CustomerLastName → NumProjects →		
		Graham 3		
		Hunter 4		
		Rogers 3		
		Customore who have consistinged as one than two puris	ata.	
		Customers who have comissioned more than two proje $_{6\top}$	CTS	
		5		
		\$1.4		
		Number of Projects		
		5 3	3	
		En la pe		
		³ ⁄ ₂ 2 ⁺		
		1-		
		0 Graham Hunter	Rogers	_
		Customer Name		
	D1	Bar/column/nic shart created		1
	B1	Bar/column/pie chart created		1
	B2 B3	Meaningful chart title used Axis shows programmer name (or legend for pie chart)		1
	B4	At least one axis has suitable label (or legend for pie		1
	D4	chart)		
	B5	Bar/column		1
		Axis contains suitable scale Or data values are		'
		shown		
Pie • Data values are shown				
		Chart is fit for purpose		1
		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 values)		
			Total	6

Question number	Answer Additional Guidance		Mark
3c Chart button		rt button	
	C1	Button added to report	1
	C2	Button would print the chart	1
		Total	2
		Total for question 3	12

Question number	Answer Additional Guidance		Mark	
4	Das	hboard		
		Select the option you require		
		Add a programmer View programmer languages query		
	A1 List box added with at least one option		1	
	A2	Both options are as given		1
	A3 Data input form from 1(b) would open OR query from 2(a) would run when option selected		1	
	A4 List box uses correct action depending on option selected for both options		1	
			Total	4
		Total fo	or question 4	4

Indicative content Analysis	Mark
Some appropriate features Combo boxes for programming language and customer. Buttons to save, close and add a customer if they don't already exist. Date picker. Form title clearly gets purpose across Section titles clearly get purpose across Most field widths suitable. Labels are generally easy to read Asterisk for required data entry Disabled fields to stop accidental change of data etc. Programming language is showing underneath the phase ID label. There is a phase start date that is before the start date for the project. Don't know whether the data underneath the select language combo box is for the language or perhaps phase ID. User help Can only see titles and asterisks. They do clearly show where data must be entered and give an indication of what the form and each section is for. Ease of use Project details section looks easy to use as just need to pick two dates. Sensible to have that as the first section. Phase detail section not as easy to use as programming language and phase ID are confusing. Also could be hard to remember a programmer's ID. Does make sense to have this section after the project details section. Phases in descending order. Customer section quite easy to use only have to pick a customer or click the add button if they don't exist. Label for customer bit hard to read. Save and close buttons good to have but does not make sense to have save button right at the top when you would finish the data input at the bottom of the page. Does not make sense to have the buttons separated either. Recommendations Make the labels consistent e.g. add space in StartDate Add validation to make sure the project start date cannot be in the	9
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· -	
past	
Add validation so that the end date has to be later than the project	
start date	
Add the phase ID field under the phase ID. Could possibly make it a	
combo box to select the phase number. This could prevent potential	
problems such as trying to duplicate the phase ID or missing a phase	

out e.g. jumping fro	m 1 to 3. Could also potentially automate it so
that the first phasel	D is always 1 and then it increments by 1 after
that. It could be disa	abled then so prevent inaccuracies and reduce
data input. Phases o	ould be arranged in ascending order.

- Could use a date picker on the start date for the phase. Could also validate to make sure the start date cannot be before the project start date and that the phase dates make sense
- Move the language to underneath the select language label.
- Could use a combo box for the programmer that shows the programmer names as easy to remember than IDs and would prevent trying to use a programmer that does not exist
- Move the label for the customer so that it is in line with the field.
 Move the customer section to the top next to the project details section as makes sense to pick a customer before adding the phase details.
- Move the save and close button to the bottom of the form so they
 are together and near to where the user will be when they have
 finished all input.
- Could add a help button with further help and make sure validation that is added has suitable error messages e.g. message to explain that the project end date cannot be before the project start date.

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 5 9						