

Mark Scheme

Summer 2022

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 number	Answer		Additional Guidance	Mark
1(a)i	Pre	sence check for email	•	
	A1	Presence check on email field Validation rule of 'Is Not Null' OR Required set to yes		1
	A2	Suitable error message e.g. "You must input the email address"	Must also have suitable validation rule to achieve this mark	1
			Total	2
1(a)ii		List check for		,
	А3	Combo box/list box applied to AverageRatingReview	Must see the field name	1
	A4	Correct range 1;2;3;4;5 And Combo box has limit to list set to Yes List box accept as done by default		1
		List box decept as done by default	Total	2

Question number	Ansv	wer	Additional Guidance	Mark
1(b)	Add	new party manager form		
	B1	PartyManagerID OR DateAdded OR AverageReviewRating are disabled		1
	B2	 Three from: Form labels are appropriate (not database field names) Form has meaningful title Entry boxes on form are resized appropriately to reflect the expected data Instructions on how to use Asterisk on any field except PartyManagerID and DateAdded and AverageReviewRating 		1
	В3	Button present and suitably labelled e.g. Save, save icon		1
	B4	PartyManagerID generated e.g. DMAX("PartyManagerID","tblPartyManager")+1		1
	B5	AverageReviewRating is automatically set to 5		1
	В6	DateAdded is automatically set to today's date		1
	В7	LastName and Email would save in party manager table		1

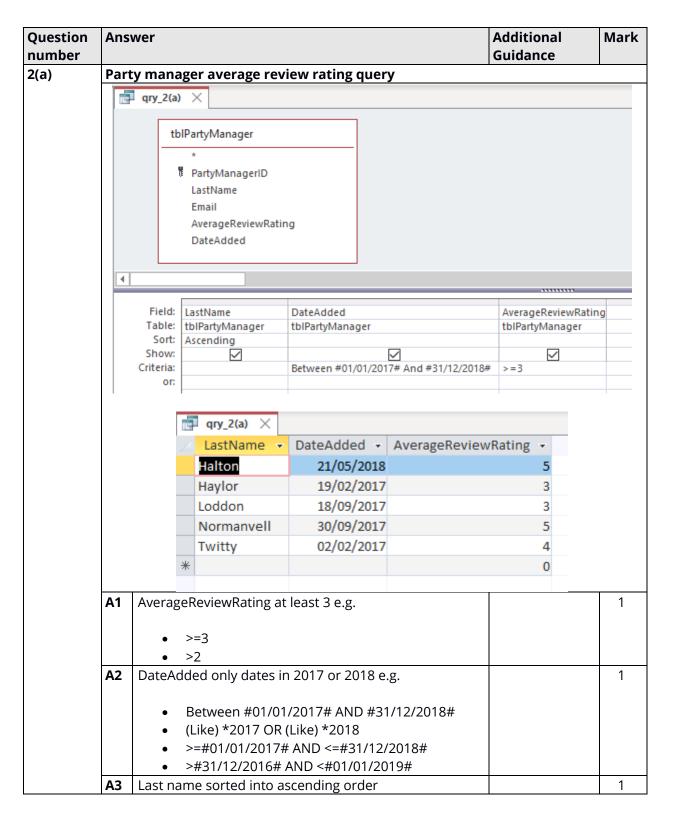
B8	Save message would display		1
B9	Save message would display only if full record has saved e.g. unbound fields – query used		1
		Total	9

Question	Answ	ver	Additional	Mark			
number			Guidance				
1(c)	Table Structure						
		tblPartyManagerID LastName Email AverageReviewRating DateAdded PartyDate ContactTelephone PartyManagerID PartyID PartyID	tbltem item Cost				
	C1	Use of appropriate table and field names and naming conventions		1			
	C2	Item table is present with suitable fields		1			
	С3	Party table is present with suitable fields		1			
	C4	Party item table is present with suitable fields		1			
	C5	1:M relationship between Party manager and Party		1			
	C6	1:M relationship between Item and Party Item		1			
	C7	1:M relationship between Party and Party Item		1			
	C8	Appropriate primary key used for Item table		1			
	С9	Appropriate primary key used for Party table		1			
	C10	Appropriate composite key used for Party Items		1			
	C11	Date/Time is used for PartyDate		1			
		And					
		Currency used for Cost					
		And					
		Text used for ContactTelephone					
			Total	11			

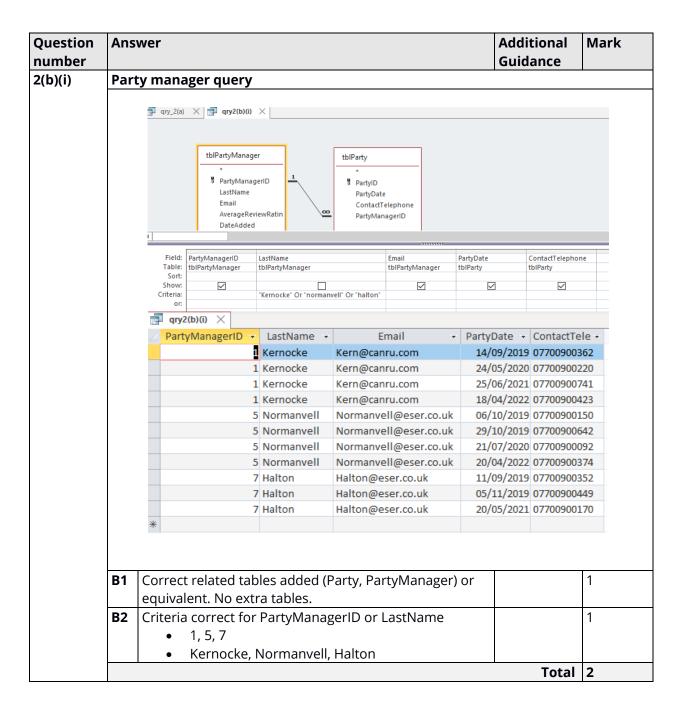
Question number	Answer Additional Guidance				
1(d)	Imp	ort			
	D1	Item table – 18 records	1		
	D2	Party table – 19 records	1		
	D3	Party items table – 87 records	1		
		Tota	al 3		

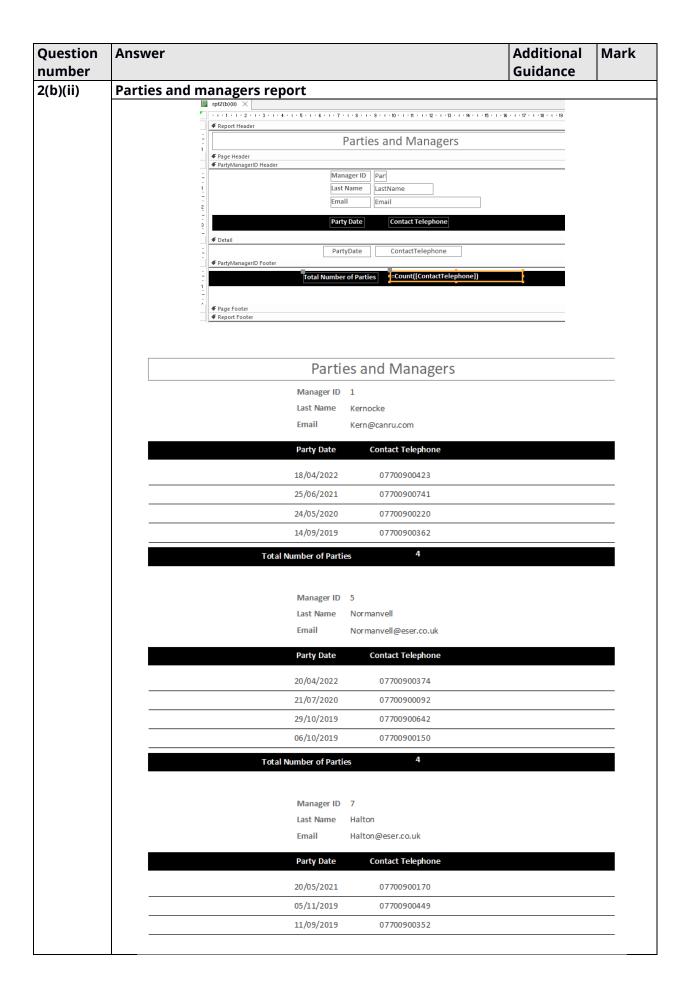
Question	Ansv	ver	Mark
number			
1(e)	Indic	ative content	9
	Facto	ors	
	•	Data types	
	•		
		Primary and foreign keys	
		Referential integrity	
		Referencial integrity	
	Conc	ideration and significance	
		_	
	Data	types	
	•	Currency used for Cost as it is a monetary field and could possibly	
		require calculations	
	•	Date/Time used for PartyDate as the data shows dates and	
		because calculations could be needed	
	•	Made sure the data types for primary/foreign keys matched	
	•	Contact telephone number text as has leading zero and would	
		require no calculations	
	Data	duplication	
	-	For each party	
		 PartylD, PartyDate, ContactTelephone and PartyManager 	
		,	
		duplicated this is because a party can have a number of	
		party items.	
		 These were removed and put into tblParty 	
	•	Item	
		 The item and cost were also duplicated every time an 	
		ItemID was used	
		 tblltem was set up to stop this happening 	
	Links	, , , , , , , , , , , , , , , , , , , ,	
	•	PartyID primary key in tblParty	
		PartylD, ItemID a composite key tblPartyltems. This is because a	
		party may have more than one item and an item can be needed at	
		more than one party. Neither PartyID nor ItemID would be unique	
		, ,	
		on their own	
	•	Foreign key PartyManagerID placed in tblParty because a party	
		needs a party manager and a party manager can manage more	
		than one party.	
	Refer	ential integrity	
	•	Enforced to make sure a foreign key value cannot be used if it	
		does not have a matching primary key. For example ItemID 20	
		could not be used in tblPartyItems as there is no such item in	
		tblltem	
Level	Mark	Descriptor	
	0	No Awardable content	
Level 1	1-3	Applies understanding with limited coherence, showing limited	
	. 5	understanding of the given issue.	
		 Assessment of solution is superficial or unbalanced, and judgement 	nts lack
		, , , , , , , , , , , , , , , , , , ,	iilo iack
1 1 2	1.6	support from evidence.	
Level 2	4-6	Applies understanding to make some coherent connections, show	ving 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 36

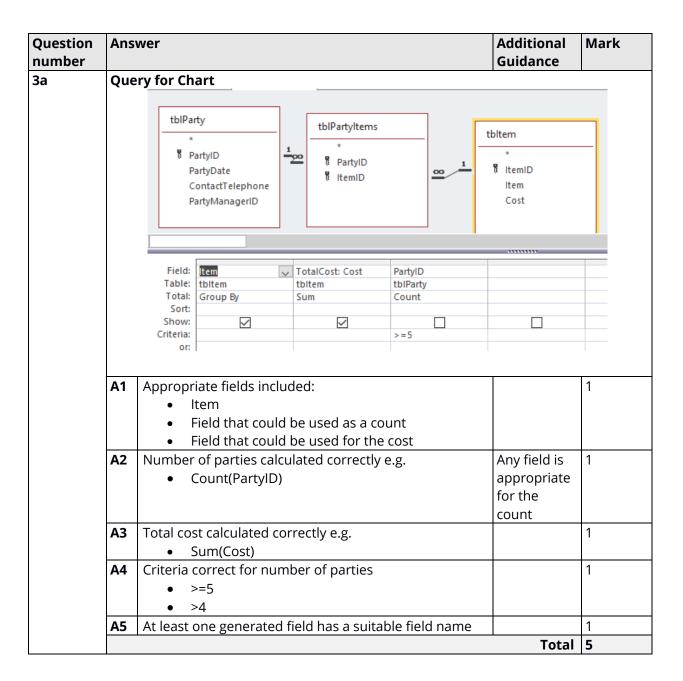


A4	Columns not truncated		1
A5	Correct results shown	May also	1
		include records	
		added as part	
		of their testing.	
		Total	5

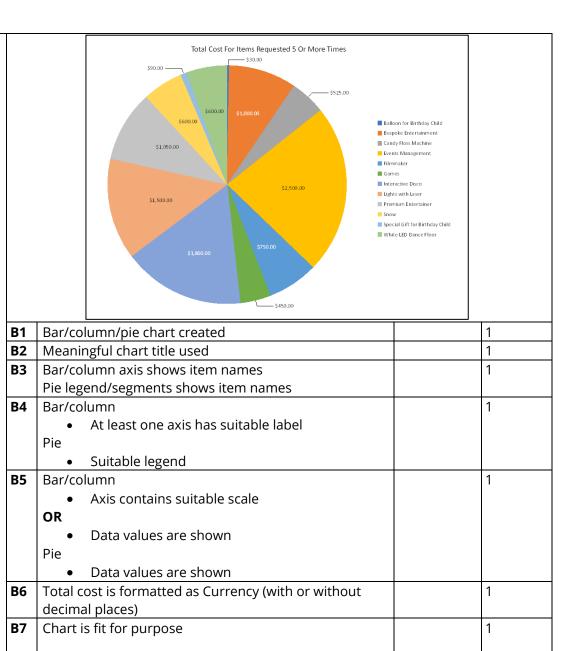




В3	Title is in the page or report header – mark from		1
	Design view only (do not accept title in detail section)		
B4	Title is as given	Ignore	1
		minor	
		errors in	
		spelling and	
		case	
B5	Grouped by PartyManagerID- mark from Design		1
	view only		
B6	Shading rectangle used around Party Date and		1
	Contact Telephone OR		
	Total number of parties and the number		
B7	Centre alignment used on at least one of the fields		1
	and at least one of the values shown		
B8	Total number of parties uses correct formula e.g.		1
	=Count(ContactTelephone)		
	=Count(PartyDate)		
	=Count(*)		
В9	Total number of parties in PartyManagerID footer		1
B10	Report and formatting are as given in Figure 1		1
		Total	8
	Tot	al for questio	n ′



Question number	Answer		Additional Mark Guidance
3b	Chart		
		Chart data	
		III rpt_2(b)(ii)	
		∠ Item ▼	TotalCost →
		Balloon for Birthday Child	£30
		Bespoke Entertainment	£1,000
		Candy Floss Machine	£525
		Events Management	£2,500
		Filmmaker	£750
		Games	£450
		Interactive Disco	£1,800
		Lights with Laser	£1,500
		Premium Entertainer	£1,050
		Snow	£600
		Special Gift for Birthday Child	£90
		White LED Dance Floor	£600
		£1,000.00 - £750.00 - £750.00 - £450.00 - £30.00	E1,050.00 E90.00 E90.00 E90.00 E90.00



B1 to B6 awarded Bar/column

Pie

No legend

Appropriate sizing of elements on page (e.g. title larger than axis labels, data labels)

Appropriate sizing of elements on page (e.g. title larger than legend labels, data labels)

Total 7

Total for question 3 12

Question number	Ansv	wer	Additional Guidance	Mark
4	Dash	nboard	1	
		Menu		
		IVICIIU		
		Choose from the options given		
		Forms Chart and Cha	rt data	
		Add party manager O View chart re	eport	
		O View chart q	uery	
		Export chart	as pdf	
	A1	Button and at least one radio button added		1
	A2	All options are as given	Ignore	1
			minor	
			spelling	
			errors and	
			case	
	A3	Data input form from 1(b) would open when Add		1
		party manager is selected		
	A4	Any one from:		1
		 View chart report - report from 3(b) would 		
		open in Print Preview when view chart option		
		is selected		
		View chart query - query from 3(a) would run		
		when view chart query is selected		
	A5	Shading used where shown in Figure 2		1
	A6	Borders used where shown in Figure 2		1
	A7	Menu content is as given	Ignore	1
İ			minor	
			spelling	
			errors and	
	4.0	DDC is supported and supported as a sector City	case	1
	A8	PDF is created and exported as part of the		1
		macro/code	Ta4-1	0
		T-4-15		8
		lotait	or question 4	8

Indicative content Note: Analysis and recommendations must be based on the content of Figure 3.	Mark
Note: Analysis and recommendations must be based on the content of Figure 3. Analysis • Fields • Customer ID • Last name • First name • Email address • Start time • Notes • Total cost • 10% deposit • Balance to pay • Party manager table • Already holds the name of the party manager • Item table • Already holds the Party date and Contact telephone and is already related to the Party Manager table • Already holds the Item ID and is already related to the Party table • Customers • There is no customer table. There can be many customers and a customer could potentially have more than one party **Recommendations** • Customer table • Create a new table with CustomerID as its primary key. Move	
Analysis • Fields • Customer ID • Last name • First name • Email address • Start time • Notes • Total cost • 10% deposit • Balance to pay • Party manager table • Already holds the name of the party manager • Item table • Already holds the Item ID, Item and Cost • Party table • Already holds the Party date and Contact telephone and is already related to the Party Manager table • Party Items table • Already holds the Item ID and is already related to the Party table too • Customers • There is no customer table. There can be many customers and a customer could potentially have more than one party **Recommendations** • Customer table • Create a new table with CustomerID as its primary key. Move	9
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Recommendations • Customer table ○ Create a new table with CustomerID as its primary key. Move	
 Customer table Create a new table with CustomerID as its primary key. Move 	
 Customer table Create a new table with CustomerID as its primary key. Move 	
and put the fields Last name, First name and Email address.	
Party table	
Remove the Contact telephone number and replace with	
CustomerID as a foreign key and enforce referential integrity	
 Add the Notes and Start time fields 	
o Do not add Total cost, 10% deposit or Balance to pay as these	
fields can all be generated from the SUM of the item costs	

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						