

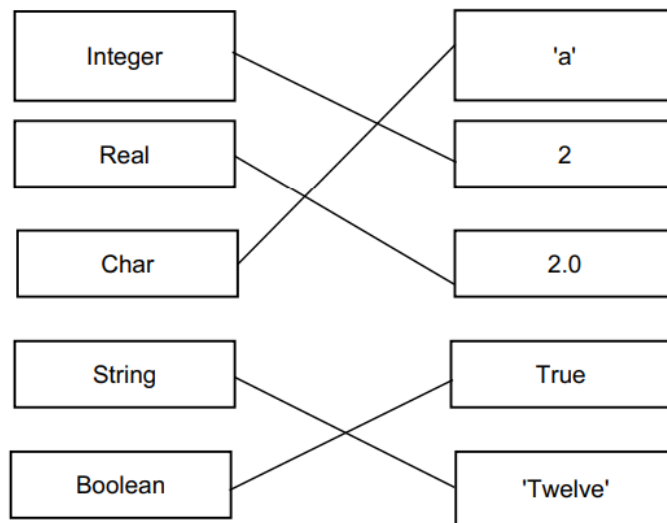
# Computer Science

## 9. Databases

Marking Schemes

Q1)

1 mark for each correct link, up to maximum of 4 marks



[4]

Q2)

(a) – 7

[1]

(b) – Brochure No  
 – Uniquely identifies each property

[2]

(c) Garage – Boolean  
 Number of Bedrooms – Number/Integer/Single  
 Price in \$ – Number/Single/Real/Currency

[3]

(d) 399000 H13  
 450000 H10

[2]

(e)

Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		True	< 200000	
or:				

or

Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		Yes	< 200000	
or:				

or

Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		=Yes	< 200000	
or:				

or

Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		=-1	< 200000	
or:				

(1 mark)

(1 mark)

(1 mark)

(1 mark)

[4]

Q3)

(a) – 7 [1]

(b) – Class ID [2]  
– Uniquely identifies each student

(c) Diana Abur, Paul Smith [2]  
– both names  
– ..... correct order

(d)

Field:	Student Name	Maths	English
Table:	MARKS	MARKS	MARKS
Sort:			
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:		<40	<40
or:			
	(1 mark)	(1 mark)	(1 mark) [3]

Q4)

(a) (i) **One** mark for every **two** correct types

**Title** – text  
**Artist** – text  
**Description** – text/memo  
**Catalogue Number** – text/(auto)number  
**Size** – number  
**Price** – currency/number  
**Arrived** – date  
**Sold** – "yes/no"/text/Boolean

0, 1 no marks

2, 3 one mark

4, 5 two marks

6, 7 three marks

8 four marks

[4]

(ii) Catalogue Number

[1]

(b) **One** mark for each correct **different** check

**Catalogue Number** Format check/Presence Check/Check Digit/Length check/uniqueness check

**Size** Type check/Presence Check/Range Check

**Price** Type check/Presence Check/Range Check

**Arrived** Type check/Presence Check/Range Check/Format check/Select from calendar length check

[4]

(c)

Field:	Catalogue Number	Title	Price	Artist	Sold
Table:	PICTURE	PICTURE	PICTURE	PICTURE	PICTURE
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:				= 'Twister'	False
or:					

(1 mark)

(1 mark)

(1 mark)

(1 mark)

(1 mark)

[5]

Q5)

**One** mark for every **two** correct types

**Boat Name** – text  
**Model** – text  
**Engine Power** – number  
**Number of Seats** – number  
**Life Raft** – "yes/no"/text/Boolean  
**Day Price** – currency/number

0, 1 no marks

2, 3 one mark

4, 5 two marks

6 three marks

[3]

(b) **One** mark for each correct **different** check

**Boat Name** Presence Check/Type Check/Character Check  
**Model** Format check/Type check/Presence Check/Length check/  
 Use of Drop-down box to select  
**Number of Seats** Type check/Presence Check/Range Check/  
 Use of Drop-down box to select  
**Day Price** Type check/Presence Check/Range Check

[4]

(c)

Field:	Boat Name	Model	Day Price	Number of Seats	Engine Power
Table:	BOAT	BOAT	BOAT	BOAT	BOAT
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:				= 4	> 100
or:					
	(1 mark)	(1mark)	(1 mark)	(1 mark)	(1 mark)

[5]

Q6)

- (i) Name type – string  
 Gender type – char/string  
 Status type – char/string  
 Fee type – real  
 Team member type – Boolean

[5]

- (ii) Data Structure – several Arrays .....  
 .....Reason – to simplify programming/ make programs shorter/index can be used  
 to identify the same member across the arrays etc.

[2]

Q7)

- (a) – all (fields) have (1 mark) duplicate entries (1 mark)  
 – none (of the fields) (1 mark) have unique entries(1 mark)

[2]

- (b) – e.g. StaffNumber ....

– ..... Uniquely identifies each member of staff//no duplicates//different for each member of staff

[2]

(c)

Field:	Department	Name		
Table:	STAFFPHONE	STAFFPHONE		
Sort:	Ascending	Ascending		
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:				
or:				

(2 marks)

(2 marks)

(1 mark for correct order and number of fields shown)

[5]

Q8)

(a) – 7 [1]

(b) – Brochure Number..... [2]  
 – ..... Uniquely identifies each record/each Brochure Number different/no duplicates

(c) – Number of Seats – number/integer [2]  
 – Price in \$ – currency/real

(d) 1 mark for each correct result, 1 mark for the results in descending order of price

– Recliner sofa 1,200 RS23  
 – Recliner chair 600 RC01 [3]

(e)

Field:	Brochure Number	Material	Colour	Price in \$	Number of Seats
Table:	SOFASELECT	SOFASELECT	SOFASELECT	SOFASELECT	SOFASELECT
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:					>2
or:					

(1 mark)

(1 mark)

(1 mark)

(1 mark)

(1 mark)

[5]

Q9)

(i) Name type – string  
 Gender type – char/string  
 Status type – char/string  
 Fee type – real  
 Team member type – Boolean

[5]

Q10)

- (a) – Town has duplicate entries/all fields can have duplicate entries  
 – fields other than Town not suitable identifiers [2]

- (b) – Performance number ...  
 – ... uniquely identifies each performance [2]

(c)

Field:	Town	Tour Date	Price Local Currency	
Table:	THEATRETOURS	THEATRETOURS	THEATRETOURS	
Sort:	Ascending			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:				
or:				

1 mark for each column + 1 mark for correct fields only

[4]

Q11)

(a) – 6 [1]

(b)

– Play	text	
– No Seats Stalls	number	
– Price Stalls Seats \$	currency	

[3]

(c) **1 mark for correct plays, 1 mark for correct dates** with each play and no extra fields or text, **1 mark for the order**

As You Like It	01/07/2016
Julius Caesar	22/07/2016
Macbeth	14/07/2016

[3]

(d)

Field:	Play	Performance Date	Number Seats Circle	Price Circle Seats \$
Table:	PLAYPRODUCTION	PLAYPRODUCTION	PLAYPRODUCTION	PLAYPRODUCTION
Sort:		Ascending/ Descending		
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			>=6	
or:				
	(1 mark)	(1 mark)	(2 marks) 1 for Criteria 1 for correct Field & Table & Sort & Show & or	(1 mark)

[5]

Q12)

	1 mark for each correctly completed element of the grid			<b>8</b>
	<i>Variable</i>	<i>Data Type</i>	<i>Appropriate Validation Check</i>	
	<i>EmployeeID</i>	String	Length Check / Presence Check / Format Check / Type check	
	<i>Manager</i>	Boolean	Type Check / Presence Check	
	<i>AnnualHoliday</i>	Integer	Type Check / Range Check / Presence Check	
	<i>PayGrade</i>	Char	Presence Check / Length Check / Type Check	

Q13)

(a)	Alan Swales   Chantel Law				2	
	∞ Correct data ∞ Correct order					
(b)	Field:	Device ID	Device Type	Purchase Date	Purchase Price (\$)	4
	Table:	DEVICE	DEVICE	DEVICE	DEVICE	
	Sort:					
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Criteria:		Like 'Desktop'	<#31/12/2016#		
	or:				<1000	
1 mark for each correct column						

Q14)

Question	Answer	Marks																																										
(a)	Any <b>one</b> from: - It is the primary key/key field with unique data - (Fixed length) text field with alphanumeric data	1																																										
(b)	<table><tr><th>Field name</th><th>Data type</th></tr><tr><td>ScreenSize</td><td>Number</td></tr><tr><td>3D</td><td>Boolean</td></tr><tr><td>CurvedFlat</td><td>Text</td></tr><tr><td>Internet</td><td>Boolean</td></tr><tr><td>HDD</td><td>Boolean</td></tr><tr><td>Price</td><td>Currency</td></tr></table> 1 mark for every two correct data types	Field name	Data type	ScreenSize	Number	3D	Boolean	CurvedFlat	Text	Internet	Boolean	HDD	Boolean	Price	Currency	3																												
Field name	Data type																																											
ScreenSize	Number																																											
3D	Boolean																																											
CurvedFlat	Text																																											
Internet	Boolean																																											
HDD	Boolean																																											
Price	Currency																																											
(c)	<table><tr><td>Field:</td><td>TVID</td><td>ScreenSize</td><td>CurvedFlat</td><td>HDD</td><td>Price</td></tr><tr><td>Table:</td><td>TVSTOCK</td><td>TVSTOCK</td><td>TVSTOCK</td><td>TVSTOCK</td><td>TVSTOCK</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td><td>Ascending</td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>=“CV”</td><td>YES</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(1 Mark)</td><td>(1 Mark)</td><td>(1 Mark)</td><td>(1 Mark)</td><td>(1 Mark)</td></tr></table>	Field:	TVID	ScreenSize	CurvedFlat	HDD	Price	Table:	TVSTOCK	TVSTOCK	TVSTOCK	TVSTOCK	TVSTOCK	Sort:					Ascending	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:			=“CV”	YES		or:							(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	5
Field:	TVID	ScreenSize	CurvedFlat	HDD	Price																																							
Table:	TVSTOCK	TVSTOCK	TVSTOCK	TVSTOCK	TVSTOCK																																							
Sort:					Ascending																																							
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																							
Criteria:			=“CV”	YES																																								
or:																																												
	(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)																																							

Q15)

(a)	<p>for each field name (1), data type and sample (1)</p> <p>The following are examples there are many different correct answers.</p> <ul style="list-style-type: none"> <li>- EarTag (1), text, EAR1011 (1)</li> <li>- DOB (1), date, 4/3/2017 (1)</li> <li>- Gender (1), text, M (1)</li> <li>- Weight (1), number, 5.9 (1)</li> </ul>	<b>8</b>
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Question	Answer				Marks
(b)	EarTag				1
(c)	Field:	EarTag	Gender	Weight	3
	Table:	SHEEP	SHEEP	SHEEP	
	Sort:				
	Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Criteria:	= 'M'	> 10		
	or:				
		(1 mark)	(1 mark)	(1 mark)	

Q16)

Question	Answer	Marks
(a)	<p>1 mark for any <b>sensible appropriate</b> field name 1 mark for data type, purpose + example data</p> <p>Example 1: Field Name: SPECIESID Data Type: Alphanumeric Purpose: Primary key Example Data: SP06583</p> <p>Example 2: Field name: NUMBER Data Type: Integer Purpose: To record how many of that species there are at the park Example Data: 30</p>	2

Question	Answer					Marks																																										
(b)	<table><tr><td>Field:</td><td>Species</td><td>Classification</td><td>Diet</td><td>Legs</td><td></td></tr><tr><td>Table:</td><td>LIVESTOCK</td><td>LIVESTOCK</td><td>LIVESTOCK</td><td>LIVESTOCK</td><td></td></tr><tr><td>Sort:</td><td>Ascending/ Descending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>"Mammal"</td><td>"Herbivore"</td><td>4</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>(1 Mark)</td><td>(1 Mark)</td><td>(1 Mark)</td><td>(1 Mark)</td><td></td></tr></table>					Field:	Species	Classification	Diet	Legs		Table:	LIVESTOCK	LIVESTOCK	LIVESTOCK	LIVESTOCK		Sort:	Ascending/ Descending					Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		"Mammal"	"Herbivore"	4		or:							(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)		4
Field:	Species	Classification	Diet	Legs																																												
Table:	LIVESTOCK	LIVESTOCK	LIVESTOCK	LIVESTOCK																																												
Sort:	Ascending/ Descending																																															
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																											
Criteria:		"Mammal"	"Herbivore"	4																																												
or:																																																
	(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)																																												
1 mark per completely correct column.																																																

Q17)

Question	Answer	Marks																														
(a)	<p>– 1 mark for each field suitable name, 1 mark for appropriate data type and appropriate data sample</p> <p>The following are examples there are many different correct answers.</p> <ul style="list-style-type: none"><li>– Engine Number, text, 21012</li><li>– Class, text, P6</li><li>– Service Date, date, 4/3/2017</li></ul>	6																														
(b)	– Engine Number // Correct field number	1																														
(c)	<table><tr><td>Field:</td><td>Engine Number</td><td>Class</td><td>Service Date</td><td></td></tr><tr><td>Table:</td><td>TRAIN</td><td>TRAIN</td><td>TRAIN</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>Like 'P*' // Like 'P?'</td><td>&lt;10/11/2016</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <p>(1 mark)                      (1 mark)                      (1 mark)</p>	Field:	Engine Number	Class	Service Date		Table:	TRAIN	TRAIN	TRAIN		Sort:					Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		Like 'P*' // Like 'P?'	<10/11/2016		or:					3
Field:	Engine Number	Class	Service Date																													
Table:	TRAIN	TRAIN	TRAIN																													
Sort:																																
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																												
Criteria:		Like 'P*' // Like 'P?'	<10/11/2016																													
or:																																

Q18)

Question	Answer	Marks
(a)	1 mark for appropriate field name and appropriate data type, then 1 mark for appropriate explanation. e.g.  Metal, type text(1) a single character/word that can be input accurately/quickly(1) Item, type text (1) a single character/word that can be input accurately/quickly(1) Number in Stock, type number (1) can be used for calculations (1) Price, type currency (1) properly formatted and can be used for calculations (1)	8
(b)	All fields could contain duplicate values	1

Question	Answer				Marks	
(c)	Field:	Metal	Item	Number in Stock	Price	3
	Table:	JEWEL	JEWEL	JEWEL	JEWEL	
	Sort:					
	Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Criteria:	= "silver"	= "bracelet"			
	or:					
	One mark for columns 1 + 2, one mark for columns 3 + 4					
	One mark for accuracy of syntax and spelling					

Q19)

Question	Answer	Marks
(a)	Fields      5 Records    8	2
(b)	Any <b>two</b> from: Length check Type check Presence check Format check	2

Question	Answer				Marks
(c)	Field:	Type	Sold Out	Date	Title
	Table:	PERFORMANCE	PERFORMANCE	PERFORMANCE	PERFORMANCE
	Sort:				
	Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Criteria:	Like "Jazz"	False		
	or:				
	One mark per correct column.				
4					

Q20)

Question	Answer	Marks																														
(a)	Fields        5	1																														
(b)	<b>One</b> mark description of new code that will allow more than 1000 values <b>One</b> mark for example matching candidate's description  Example Use a new character instead of N TT345	2																														
(c)	<table><tr><td>Field:</td><td>At Risk</td><td>Age in Years</td><td>Type</td><td>Map Position</td></tr><tr><td>Table:</td><td>TREES</td><td>TREES</td><td>TREES</td><td>TREES</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td>True</td><td>&gt;100</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <b>One</b> mark per correct column	Field:	At Risk	Age in Years	Type	Map Position	Table:	TREES	TREES	TREES	TREES	Sort:					Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:	True	>100			or:					4
Field:	At Risk	Age in Years	Type	Map Position																												
Table:	TREES	TREES	TREES	TREES																												
Sort:																																
Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
Criteria:	True	>100																														
or:																																

Q21)

Question	Answer	Marks
(a)	<b>One</b> mark for correct answer 20	<b>1</b>
(b)(i)	<b>One</b> mark for correct answer CatNo	<b>1</b>
(b)(ii)	<b>One</b> mark for correct answer It is a unique identifier	<b>1</b>

Question	Answer	Marks																																				
(c)	<p><b>One</b> mark for every <b>two</b> correct data types</p> <table><tr><th>Field</th><th>Data Type</th></tr><tr><td>CatNo</td><td>Text</td></tr><tr><td>Title</td><td>Text</td></tr><tr><td>Genre 1</td><td>Text</td></tr><tr><td>Stream</td><td>Boolean / Text</td></tr></table>	Field	Data Type	CatNo	Text	Title	Text	Genre 1	Text	Stream	Boolean / Text	2																										
Field	Data Type																																					
CatNo	Text																																					
Title	Text																																					
Genre 1	Text																																					
Stream	Boolean / Text																																					
(d)	<p><b>One</b> mark for each correct row</p> <table><tr><td>18m02</td><td>Golfwatch</td><td>Yes</td><td>No</td><td>Yes</td></tr><tr><td>18m03</td><td>Chair 27</td><td>Yes</td><td>Yes</td><td>No</td></tr></table> <p>Accept if drawn in a table, but don't allow any punctuation</p>	18m02	Golfwatch	Yes	No	Yes	18m03	Chair 27	Yes	Yes	No	2																										
18m02	Golfwatch	Yes	No	Yes																																		
18m03	Chair 27	Yes	Yes	No																																		
(e)	<table><tr><td>Field:</td><td>CatNo</td><td>Title</td><td>Genre 1</td><td>Genre 2</td><td>Stream</td></tr><tr><td>Table:</td><td>2018MOV</td><td>2018MOV</td><td>2018MOV</td><td>2018MOV</td><td>2018MOV</td></tr><tr><td>Sort:</td><td></td><td>Ascending</td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>= "Sci-Fi"</td><td></td><td>Yes</td></tr><tr><td>or:</td><td></td><td></td><td></td><td>= "Sci-Fi"</td><td>Yes</td></tr></table> <p>← 1 mark → ← 1 mark → ← 1 mark → ← 1 mark →</p> <p><b>One</b> mark per completely correct column / group of columns as shown.</p>	Field:	CatNo	Title	Genre 1	Genre 2	Stream	Table:	2018MOV	2018MOV	2018MOV	2018MOV	2018MOV	Sort:		Ascending				Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			= "Sci-Fi"		Yes	or:				= "Sci-Fi"	Yes	4
Field:	CatNo	Title	Genre 1	Genre 2	Stream																																	
Table:	2018MOV	2018MOV	2018MOV	2018MOV	2018MOV																																	
Sort:		Ascending																																				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:			= "Sci-Fi"		Yes																																	
or:				= "Sci-Fi"	Yes																																	

Q22)

Question	Answer	Marks																																										
(a)	<table><tr><th>Field</th><th>Data type</th></tr><tr><td>PCID</td><td>Text</td></tr><tr><td>ScreenSize</td><td>Number</td></tr><tr><td>Type</td><td>Text</td></tr><tr><td>Price</td><td>Currency</td></tr></table> <p>2 marks for 4 correct data types 1 mark for 2 or 3 correct data types</p>	Field	Data type	PCID	Text	ScreenSize	Number	Type	Text	Price	Currency	2																																
Field	Data type																																											
PCID	Text																																											
ScreenSize	Number																																											
Type	Text																																											
Price	Currency																																											
(b)	<p>1 mark correct Fields included 1 mark correct Table and Show on all fields used 1 mark for correct sort, must be descending on Price 1 mark for correct criteria for the fields</p> <table><tr><td>Field:</td><td>PCID</td><td>ScreenSize</td><td>RAM</td><td>Type</td><td>HDD(Gb)</td><td>Price</td></tr><tr><td>Table:</td><td>PCSTOCK</td><td>PCSTOCK</td><td>PCSTOCK</td><td>PCSTOCK</td><td>PCSTOCK</td><td>PCSTOCK</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td><td></td><td>Descending</td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td></td><td>= "DT"</td><td>&gt;1000</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	PCID	ScreenSize	RAM	Type	HDD(Gb)	Price	Table:	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK	Sort:						Descending	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:				= "DT"	>1000		or:							4
Field:	PCID	ScreenSize	RAM	Type	HDD(Gb)	Price																																						
Table:	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK	PCSTOCK																																						
Sort:						Descending																																						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																						
Criteria:				= "DT"	>1000																																							
or:																																												

Q23)

Question	Answer	Marks										
(a)	<p>Many correct answers, an example is given. 1 mark for each correct row (max 4).</p> <table><thead><tr><th>Field</th><th>Data type</th></tr></thead><tbody><tr><td>Reference Number</td><td>Text</td></tr><tr><td>Size</td><td>Text</td></tr><tr><td>Type</td><td>Text/Boolean</td></tr><tr><td>Price in \$</td><td>Number/Currency</td></tr></tbody></table>	Field	Data type	Reference Number	Text	Size	Text	Type	Text/Boolean	Price in \$	Number/Currency	4
Field	Data type											
Reference Number	Text											
Size	Text											
Type	Text/Boolean											
Price in \$	Number/Currency											
(b)	<p>1 mark per bullet:</p> <ul style="list-style-type: none"><li>∞ Incorrect field name for Reference Number</li><li>∞ Incorrect criteria for Price in \$ should be &lt;</li><li>∞ Type not checked</li></ul>	3										

Q24)

Question	Answer	Marks
<b>Section B</b>		
	<p>Integer – 1 mark for description 1 mark for example e.g.</p> <p>Any whole number ... ... for example a week number / 26</p> <p>String – 1 mark for description 1 mark for example e.g.</p> <p>Any data item that contains letters and/or numbers and/or special characters ... for example someone's name / def7773@.</p>	<b>4</b>

Q25)

Question	Answer	Marks
(a)	<p>1 mark for correct answer: No</p> <p>1 mark for correct explanation: No field in this table contains unique identifier</p>	<b>2</b>

Question	Answer	Marks																																				
(b)	<div>1 mark for each correct answer</div> <table><tr><th>Field</th><th>Data type</th></tr><tr><td>Tree Type</td><td>Text</td></tr><tr><td>Size3</td><td>Number</td></tr><tr><td>Size2 In</td><td>Boolean/Text</td></tr></table>	Field	Data type	Tree Type	Text	Size3	Number	Size2 In	Boolean/Text	3																												
Field	Data type																																					
Tree Type	Text																																					
Size3	Number																																					
Size2 In	Boolean/Text																																					
(c)	<div>1 mark for each correct row (max 3) and 1 mark for the correct order</div> <div>Peach    9.25    No Plum    8.95    Yes Nectarine 8.50    Yes</div>	4																																				
(d)	<div>1 mark correct Fields included 1 mark correct Table and Show on all the four fields required 1 mark for correct Sort, must be ascending 1 mark for correct Criteria for the four fields</div> <table><tr><td>Field:</td><td>Tree Type</td><td>Size1 In</td><td>Size2 In</td><td>Size 3 In</td><td></td></tr><tr><td>Table:</td><td>TREETAB</td><td>TREETAB</td><td>TREETAB</td><td>TREETAB</td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>=No</td><td>=No</td><td>=No</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	Tree Type	Size1 In	Size2 In	Size 3 In		Table:	TREETAB	TREETAB	TREETAB	TREETAB		Sort:	Ascending					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Criteria:		=No	=No	=No		or:						4
Field:	Tree Type	Size1 In	Size2 In	Size 3 In																																		
Table:	TREETAB	TREETAB	TREETAB	TREETAB																																		
Sort:	Ascending																																					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:		=No	=No	=No																																		
or:																																						

Q26)

Question	Answer				Marks	
	Field:	Tyre Code	Stock Level	Width	Terrain	4
	Table:	BIKETYRES	BIKETYRES	BIKETYRES	BIKETYRES	
	Sort:		Ascending			
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Criteria:			= 24	= 'Asphalt'	
	or:					
	One mark for each correct column					

Q27)

Question	Answer	Marks
	<p>Many possible answers, those given are examples only. 1 mark for each correct description and 1 mark for each correct example</p> <p><b>Char</b> Description: A single character (from the keyboard) Example: A / # / 2</p> <p><b>String</b> Description: An (ordered) sequence of characters Example: Hello world / #123?Y / 234 78963</p> <p><b>Boolean</b> Description: A data type with two possible values Example: TRUE / FALSE</p>	6

Q28)

Question	Answer	Marks																																										
(a)	Each data value is unique	1																																										
(b)	10 records	1																																										
(c)	<div>Bev07      Lemonade</div> <div>Bev01      Cola</div> <div>1 mark for each correct content</div> <div>1 mark for each correct format</div> <div>1 mark for correct order</div>	3																																										
(d)	<table><tr><td>Field:</td><td>BevNo</td><td>BevName</td><td>Calories</td><td></td><td></td><td></td></tr><tr><td>Table:</td><td>BEVERAGES</td><td>BEVERAGES</td><td>BEVERAGES</td><td></td><td></td><td></td></tr><tr><td>Sort:</td><td></td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>&gt;45</td><td></td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <div>1 mark for correct Field row</div> <div>1 mark for Table and Sort rows</div> <div>1 mark for correct Show row</div> <div>1 mark for correct Criteria rows</div>	Field:	BevNo	BevName	Calories				Table:	BEVERAGES	BEVERAGES	BEVERAGES				Sort:		Ascending					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			>45				or:							4
Field:	BevNo	BevName	Calories																																									
Table:	BEVERAGES	BEVERAGES	BEVERAGES																																									
Sort:		Ascending																																										
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																						
Criteria:			>45																																									
or:																																												

Q29)

Question	Answer	Marks																																																						
(a)	Passengers	1																																																						
(b)	<p>Explanation</p> <p><b>Three</b> from:</p> <ul style="list-style-type: none"><li>∞ Flight number not displayed</li><li>∞ Passengers displayed when should not be</li><li>∞ Departure time = not &gt;</li><li>∞ "Freight and passengers" flight not excluded</li></ul> <p>Revised QBE – answers shown are examples only</p> <p>1 mark per bullet</p> <ul style="list-style-type: none"><li>∞ correct field and table names (either 3 or 4 columns) must include Notes, Flight number and Departure time</li><li>∞ correct show</li><li>∞ correct time criteria for the candidate's QBE grid</li><li>∞ use of criteria to select planes with passengers only</li></ul> <table><tr><td>Field:</td><td>Flight number</td><td>Passengers</td><td>Departure time</td><td>Notes</td></tr><tr><td>Table:</td><td>FLIGHT</td><td>FLIGHT</td><td>FLIGHT</td><td>FLIGHT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>=Y</td><td>&gt;10:00</td><td>&lt;&gt; "Freight and passengers"</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <p>OR</p> <table><tr><td>Field:</td><td>Flight number</td><td>Departure time</td><td>Notes</td></tr><tr><td>Table:</td><td>FLIGHT</td><td>FLIGHT</td><td>FLIGHT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>&gt;10:00</td><td>= "Passengers only"</td></tr><tr><td>or:</td><td></td><td>&gt;10:00</td><td>= "Private passenger flight"</td></tr></table>	Field:	Flight number	Passengers	Departure time	Notes	Table:	FLIGHT	FLIGHT	FLIGHT	FLIGHT	Sort:					Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		=Y	>10:00	<> "Freight and passengers"	or:					Field:	Flight number	Departure time	Notes	Table:	FLIGHT	FLIGHT	FLIGHT	Sort:				Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		>10:00	= "Passengers only"	or:		>10:00	= "Private passenger flight"	7
Field:	Flight number	Passengers	Departure time	Notes																																																				
Table:	FLIGHT	FLIGHT	FLIGHT	FLIGHT																																																				
Sort:																																																								
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																				
Criteria:		=Y	>10:00	<> "Freight and passengers"																																																				
or:																																																								
Field:	Flight number	Departure time	Notes																																																					
Table:	FLIGHT	FLIGHT	FLIGHT																																																					
Sort:																																																								
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																					
Criteria:		>10:00	= "Passengers only"																																																					
or:		>10:00	= "Private passenger flight"																																																					

Q30)

Question	Answer	Marks																														
(a)	Number is repeated/not unique	1																														
(b)	<p><b>Three</b> from: Train number not displayed Departure time before 8:30 Criteria of =Y for Platform not required/incorrect All late trains will be shown/the condition should be on the line above</p> <p>4 marks, one mark for each correct column</p> <table><tr><td>Field:</td><td>Train Number</td><td>Platform</td><td>Departure Time</td><td>Status</td></tr><tr><td>Table:</td><td>TRAIN</td><td>TRAIN</td><td>TRAIN</td><td>TRAIN</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>&gt; 08:30</td><td>= "Late"</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table>	Field:	Train Number	Platform	Departure Time	Status	Table:	TRAIN	TRAIN	TRAIN	TRAIN	Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			> 08:30	= "Late"	or:					7
Field:	Train Number	Platform	Departure Time	Status																												
Table:	TRAIN	TRAIN	TRAIN	TRAIN																												
Sort:																																
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																												
Criteria:			> 08:30	= "Late"																												
or:																																

Q31)

Question	Answer	Marks																																				
(a)	<table><thead><tr><th>Field name</th><th>Example of data</th></tr></thead><tbody><tr><td>CarID</td><td>ID07</td></tr><tr><td>Model</td><td>Pegasus // Apollo // Cupid</td></tr><tr><td>BodyStyle</td><td>estate //saloon // hatchback</td></tr><tr><td>Doors</td><td>1 // 2 // 3 // 4 // 5</td></tr><tr><td>FuelType</td><td>batteries // petrol // diesel</td></tr></tbody></table> <p><b>One</b> mark – 1 or 2 suitable names and corresponding examples of data // 5 suitable field names but all data incorrect <b>Two</b> marks – 3 or 4 suitable names and corresponding examples of data <b>Three</b> marks – 5 suitable names and corresponding examples of data Notes: CarID can be anything that could be used as a unique identifier. e.g. Number Plate Number of doors can be any number of sensible doors for a car – 1, 2, 3, 4, 5. Other data must come from the given text. Allow codes for model and body style.</p>	Field name	Example of data	CarID	ID07	Model	Pegasus // Apollo // Cupid	BodyStyle	estate //saloon // hatchback	Doors	1 // 2 // 3 // 4 // 5	FuelType	batteries // petrol // diesel	3																								
Field name	Example of data																																					
CarID	ID07																																					
Model	Pegasus // Apollo // Cupid																																					
BodyStyle	estate //saloon // hatchback																																					
Doors	1 // 2 // 3 // 4 // 5																																					
FuelType	batteries // petrol // diesel																																					
(b)	<ul style="list-style-type: none"><li>CarID</li><li>Which contains unique values to identify each record</li></ul>	2																																				
(c)	<table><tr><td>Field:</td><td>Model</td><td>FuelType</td><td>Doors</td><td></td><td></td></tr><tr><td>Table:</td><td>CAR_RANGE</td><td>CAR_RANGE</td><td>CAR_RANGE</td><td></td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>= "Petrol"</td><td></td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>1 mark for each completely correct column (maximum three marks)</p>	Field:	Model	FuelType	Doors			Table:	CAR_RANGE	CAR_RANGE	CAR_RANGE			Sort:	Ascending					Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		= "Petrol"				or:						3
Field:	Model	FuelType	Doors																																			
Table:	CAR_RANGE	CAR_RANGE	CAR_RANGE																																			
Sort:	Ascending																																					
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:		= "Petrol"																																				
or:																																						

Q32)

Question	Answer	Marks																														
(a)	∞ Number is repeated/not unique	1																														
(b)	<div>∞ Item number not displayed/Amount column not required</div> <div>∞ Not Like 'Delivered' will also show cancelled items</div> <table><tr><td>Field:</td><td>Item number</td><td>Order number</td><td>Status</td><td></td></tr><tr><td>Table:</td><td>SALES</td><td>SALES</td><td>SALES</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>Like "Not started"</td><td></td></tr><tr><td>or:</td><td></td><td></td><td>Like "In progress"</td><td></td></tr></table> <div>∞ Correct Item number column</div> <div>∞ Correct Order number column and any additional column not shown</div> <div>∞ Correct status column</div>	Field:	Item number	Order number	Status		Table:	SALES	SALES	SALES		Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			Like "Not started"		or:			Like "In progress"		5
Field:	Item number	Order number	Status																													
Table:	SALES	SALES	SALES																													
Sort:																																
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																												
Criteria:			Like "Not started"																													
or:			Like "In progress"																													

Q33)

Question	Answer	Marks																														
(a)	<ul style="list-style-type: none"><li>• Number of Fields: 4</li><li>• Number of Records: 32</li></ul>	2																														
(b)	<ul style="list-style-type: none"><li>• No field is suitable as a primary key ...</li><li>• ... because none of the data would be unique // duplicates could occur</li></ul>	2																														
(c)	<table><tr><td>Field:</td><td>FirstName</td><td>LastName</td><td>Y10TestScore</td><td></td></tr><tr><td>Table:</td><td>MARKBOOK</td><td>MARKBOOK</td><td>MARKBOOK</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td>Descending</td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>&gt;=50</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <p><b>One</b> mark for each completely correct column down to and including 'Show' row (maximum three marks) <b>One</b> mark for correct search criteria rows</p>	Field:	FirstName	LastName	Y10TestScore		Table:	MARKBOOK	MARKBOOK	MARKBOOK		Sort:			Descending		Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Criteria:			>=50		or:					4
Field:	FirstName	LastName	Y10TestScore																													
Table:	MARKBOOK	MARKBOOK	MARKBOOK																													
Sort:			Descending																													
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																												
Criteria:			>=50																													
or:																																

Q34)

Question	Answer	Marks
(a)	One mark for data type and reason SIZE text, expressed as a single word SHAPE text, short phrase required WOOD text, expressed as a single word PRICE currency, needs to be expressed as dollars / may be used in calculations SOLD Boolean, only two choices	5

Question	Answer	Marks																																			
(b)(i)	<p><b>One mark for</b></p> <ul style="list-style-type: none"><li>• correct field and table names must include SIZE, WOOD and PRICE, allow SHAPE or SOLD</li><li>• correct show for PRICE only</li><li>• correct criteria to select small and walnut</li></ul> <table><tr><td>Field:</td><td>SIZE</td><td>WOOD</td><td>PRICE</td><td></td></tr><tr><td>Table:</td><td>BOX</td><td>BOX</td><td>BOX</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= 'small'</td><td>= 'walnut'</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	SIZE	WOOD	PRICE		Table:	BOX	BOX	BOX		Sort:					Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Criteria:	= 'small'	= 'walnut'			or:										3
Field:	SIZE	WOOD	PRICE																																		
Table:	BOX	BOX	BOX																																		
Sort:																																					
Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:	= 'small'	= 'walnut'																																			
or:																																					
(b)(ii)	<table><tr><td>Field:</td><td>WOOD</td></tr><tr><td>Table:</td><td>BOX</td></tr><tr><td>Sort:</td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td>(1)</td></tr><tr><td>Criteria:</td><td>= 'walnut' OR 'beech'</td><td>(1)</td></tr><tr><td>or:</td><td></td></tr></table> <p>One mark for each correct alteration max 2</p>	Field:	WOOD	Table:	BOX	Sort:		Show:	<input checked="" type="checkbox"/>	(1)	Criteria:	= 'walnut' OR 'beech'	(1)	or:		2																					
Field:	WOOD																																				
Table:	BOX																																				
Sort:																																					
Show:	<input checked="" type="checkbox"/>	(1)																																			
Criteria:	= 'walnut' OR 'beech'	(1)																																			
or:																																					

Q35)

Question	Answer				Marks																																				
(a)	To uniquely identify a product (in TOOLS)				1																																				
(b)	<table><tr><td>HS50</td><td>Hose (50 metres)</td><td>60</td></tr><tr><td>GFLG</td><td>Garden Fork</td><td>50</td></tr><tr><td>LMPT</td><td>Lawn Mower (Petrol)</td><td>25</td></tr></table> <p><b>One</b> mark for correct data <b>One</b> mark for correct format <b>One</b> mark for data in correct order</p>				HS50	Hose (50 metres)	60	GFLG	Garden Fork	50	LMPT	Lawn Mower (Petrol)	25	3																											
HS50	Hose (50 metres)	60																																							
GFLG	Garden Fork	50																																							
LMPT	Lawn Mower (Petrol)	25																																							
(c)	<table><tr><td>Field:</td><td>Code</td><td>Description</td><td>Quantity_Stock</td><td></td><td></td></tr><tr><td>Table:</td><td>TOOLS</td><td>TOOLS</td><td>TOOLS</td><td></td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>&lt;25</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table> <p><b>One</b> mark for each completely correct column (max <b>three</b>)</p>				Field:	Code	Description	Quantity_Stock			Table:	TOOLS	TOOLS	TOOLS			Sort:	Ascending					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			<25			or:						3
Field:	Code	Description	Quantity_Stock																																						
Table:	TOOLS	TOOLS	TOOLS																																						
Sort:	Ascending																																								
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																				
Criteria:			<25																																						
or:																																									

Q36)

Question	Answer	Marks
	Real Integer Char/String String Boolean	5

Q37)

Question	Answer				Marks																																			
(a)	<b>One</b> mark for field and <b>one</b> mark for reason Field    Juice code Reason   only unique identifier				2																																			
(b)	<table><tr><td>Field:</td><td>Fruit 1</td><td>Fruit 2</td><td>Size</td><td>Stock level</td></tr><tr><td>Table:</td><td>JUICE</td><td>JUICE</td><td>JUICE</td><td>JUICE</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= "Apple"</td><td>= "Apple"</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> <p>One mark for each correct column</p>				Field:	Fruit 1	Fruit 2	Size	Stock level	Table:	JUICE	JUICE	JUICE	JUICE	Sort:					Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:	= "Apple"	= "Apple"			or:										4
Field:	Fruit 1	Fruit 2	Size	Stock level																																				
Table:	JUICE	JUICE	JUICE	JUICE																																				
Sort:																																								
Show:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																				
Criteria:	= "Apple"	= "Apple"																																						
or:																																								

Q38)

Question	Answer		Marks
(a)			4
	Fieldname	Purpose of field contents	
	CodeNo	Primary key to identify products	
	Product	To describe the product	
	Price	The price of individual item	
	NumInStock	How many are in stock	
One mark for each correct fieldname and description pair			

Question	Answer				Marks
(b)	Field:	CodeNo	Product	NumInStock	3
	Table:	STOCK	STOCK	STOCK	
	Sort:				
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Criteria:			<20	
	or:				
	One mark for each completely correct column (max three)				

Q39)

Question	Answer	Marks
(a)	6 fields 9 records	2
(b)	Either mark by row or by column but not both <b>One</b> each correct row or <b>one</b> mark for each correct column max <b>two</b> Koala3          Australia SkyKing        Europe	2

Question	Answer				Marks																														
(c)	<table><tr><td>Field:</td><td>Airline name</td><td>Number of countries</td><td>Head office</td><td></td></tr><tr><td>Table:</td><td>AIRLINE</td><td>AIRLINE</td><td>AIRLINE</td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>&gt; 4</td><td>= "Asia"</td><td></td></tr><tr><td>or:</td><td></td><td>&gt; 4</td><td>= "Africa"</td><td></td></tr></table> <p><b>one</b> mark for correct fields and correct table names, must have the three columns required, ignore another column provided the show row is not ticked and there are no criteria set for that column <b>one</b> mark for correct show row <b>one</b> mark for correct number of countries criteria <b>one</b> mark for correct head office criteria</p>				Field:	Airline name	Number of countries	Head office		Table:	AIRLINE	AIRLINE	AIRLINE		Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		> 4	= "Asia"		or:		> 4	= "Africa"		4
Field:	Airline name	Number of countries	Head office																																
Table:	AIRLINE	AIRLINE	AIRLINE																																
Sort:																																			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																															
Criteria:		> 4	= "Asia"																																
or:		> 4	= "Africa"																																

Q40)

Question	Answer	Marks																														
(a)	17	1																														
(b)	<p><b>One</b> mark for correct fieldname and <b>one</b> mark for correct reason</p> <p>PartNum</p> <p>The data stored in this field is <b>unique</b> for each record</p>	2																														
(c)	<table><tr><td>Field:</td><td>PartNum</td><td>Description</td><td>Cost</td><td>Quantity</td></tr><tr><td>Table:</td><td>AUDIOPARTS</td><td>AUDIOPARTS</td><td>AUDIOPARTS</td><td>AUDIOPARTS</td></tr><tr><td>Sort:</td><td></td><td></td><td>Descending</td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td></td><td>&lt;10</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <p><b>One</b> mark for correct field and table rows <b>One</b> mark for sort row <b>One</b> mark for show row <b>One</b> mark for correct criteria</p>	Field:	PartNum	Description	Cost	Quantity	Table:	AUDIOPARTS	AUDIOPARTS	AUDIOPARTS	AUDIOPARTS	Sort:			Descending		Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:				<10	or:					4
Field:	PartNum	Description	Cost	Quantity																												
Table:	AUDIOPARTS	AUDIOPARTS	AUDIOPARTS	AUDIOPARTS																												
Sort:			Descending																													
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																												
Criteria:				<10																												
or:																																

Q41)

Question	Answer	Marks																														
(a)	5 fields 9 records	2																														
(b)	<b>One</b> mark for each correct column max <b>two</b> , Or <b>two</b> correct rows <b>one</b> mark Short-tailed Albatross    Y Emperor Penguin        Y Yellow-eyed Penguin    Y	2																														
(c)	<table><tr><td>Field:</td><td>Creature</td><td>Quantity</td><td>Offspring</td><td>Ready for release</td></tr><tr><td>Table:</td><td>MARINE</td><td>MARINE</td><td>MARINE</td><td>MARINE</td></tr><tr><td>Sort:</td><td></td><td>Ascending</td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>=N</td><td>=Y</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <b>One</b> mark for each correct field and table rows <b>One</b> mark for sort row <b>One</b> mark for show row <b>One</b> mark for correct criteria	Field:	Creature	Quantity	Offspring	Ready for release	Table:	MARINE	MARINE	MARINE	MARINE	Sort:		Ascending			Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			=N	=Y	or:					4
Field:	Creature	Quantity	Offspring	Ready for release																												
Table:	MARINE	MARINE	MARINE	MARINE																												
Sort:		Ascending																														
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																												
Criteria:			=N	=Y																												
or:																																

Q42)

Question	Answer	Marks
	<b>One</b> mark per bullet point 37 <ul style="list-style-type: none"> <li>Data type name        Integer</li> <li>Data type description    (Any) <b>whole number</b></li> </ul> Cambridge2021 <ul style="list-style-type: none"> <li>Data type name        String</li> <li>Data type description    A group of characters/text</li> </ul> 47.86 <ul style="list-style-type: none"> <li>Data type name        Real</li> <li>Data type description    (Any real) number that could be a whole number or a fraction</li> </ul>	6

Q43)

Question	Answer	Marks																																				
(a)	The data in the ID column/field is unique/not repeated in each row/record	1																																				
(b)	18	1																																				
(c)	<table><tr><td>Field:</td><td>ID</td><td>GenreName</td><td>Overdue</td><td></td><td></td></tr><tr><td>Table:</td><td>GENRE</td><td>GENRE</td><td>GENRE</td><td></td><td></td></tr><tr><td>Sort:</td><td></td><td></td><td>Descending</td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>&gt;0</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>One mark for the correct fields present and correctly named One mark for correct table name and show box in all columns One mark for correct sorting One mark for correct search criterion</p>	Field:	ID	GenreName	Overdue			Table:	GENRE	GENRE	GENRE			Sort:			Descending			Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			>0			or:						4
Field:	ID	GenreName	Overdue																																			
Table:	GENRE	GENRE	GENRE																																			
Sort:			Descending																																			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:			>0																																			
or:																																						

Q44)

Question	Answer	Marks																																																																														
	<p>Any <b>three</b> from:</p> <ul style="list-style-type: none"><li>• TABLE row not completed</li><li>• POSITION column not required // POSITION criteria not required</li><li>• No criteria set in the size column</li><li>• No criteria set in the flower column</li></ul> <table><tr><td>Field:</td><td>SIZE</td><td>PRICE</td><td>FLOWER</td><td>NUMBERSOLD</td><td>NAME</td></tr><tr><td>Table:</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= "small"</td><td></td><td>False</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>OR</p> <table><tr><td>Field:</td><td>SIZE</td><td>PRICE</td><td>FLOWER</td><td>NUMBERSOLD</td><td>NAME</td><td>POSITION</td></tr><tr><td>Table:</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td><td>PLANT</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td>= "small"</td><td></td><td>= False</td><td></td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	SIZE	PRICE	FLOWER	NUMBERSOLD	NAME	Table:	PLANT	PLANT	PLANT	PLANT	PLANT	Sort:						Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Criteria:	= "small"		False			or:						Field:	SIZE	PRICE	FLOWER	NUMBERSOLD	NAME	POSITION	Table:	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	Sort:							Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Criteria:	= "small"		= False				or:							5
Field:	SIZE	PRICE	FLOWER	NUMBERSOLD	NAME																																																																											
Table:	PLANT	PLANT	PLANT	PLANT	PLANT																																																																											
Sort:																																																																																
Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																											
Criteria:	= "small"		False																																																																													
or:																																																																																
Field:	SIZE	PRICE	FLOWER	NUMBERSOLD	NAME	POSITION																																																																										
Table:	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT																																																																										
Sort:																																																																																
Show:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																																																										
Criteria:	= "small"		= False																																																																													
or:																																																																																
<p><b>One</b> mark for correct rows Field, Table and Show</p> <p><b>One</b> mark for correct Criteria row</p>																																																																																

Q45)

Question	Answer	Marks										
Section B												
	<p><b>Three</b> marks for three or four correct <b>Two</b> marks for two correct <b>One</b> mark for one correct</p> <table><thead><tr><th>Data Type</th><th>Description</th></tr></thead><tbody><tr><td>Real</td><td>Must be a whole number</td></tr><tr><td>String</td><td>Must be one of two values</td></tr><tr><td>Integer</td><td>May be any number</td></tr><tr><td>Boolean</td><td>May contain any combination of characters</td></tr></tbody></table>	Data Type	Description	Real	Must be a whole number	String	Must be one of two values	Integer	May be any number	Boolean	May contain any combination of characters	3
Data Type	Description											
Real	Must be a whole number											
String	Must be one of two values											
Integer	May be any number											
Boolean	May contain any combination of characters											

Q46)

Question	Answer	Marks							
(a)	<p><b>Two</b> marks for six correct field names <b>One</b> mark for at least three correct field names</p> <table><tr><th>Field name</th></tr><tr><td>LicenceNo</td></tr><tr><td>Mileage</td></tr><tr><td>TyreFLft</td></tr><tr><td>TyreFRgt</td></tr><tr><td>TyreRLft</td></tr><tr><td>TyreRRgt</td></tr></table>	Field name	LicenceNo	Mileage	TyreFLft	TyreFRgt	TyreRLft	TyreRRgt	2
Field name									
LicenceNo									
Mileage									
TyreFLft									
TyreFRgt									
TyreRLft									
TyreRRgt									

Question	Answer						Marks	
i(b)	<b>One</b> mark for correct fieldnames <b>One</b> mark for correct table names and show fields <b>One</b> mark for correct sort <b>One</b> mark for correct search criteria in all columns						4	
	Field:	LicenceNo	Mileage	TyreFLft	TyreFRgt	TyreRLft		TyreRRgt
	Table:	TREAD	TREAD	TREAD	TREAD	TREAD		TREAD
	Sort:	Ascending						
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	Criteria:			<2	<2	<2		<2
	or:							

Q47)

Question	Answer	Marks																														
(a)	CATEGORY – Text characters / words only used PRICE – Currency, the price is in dollars / money CODE – Text no calculations required, could be numbers or characters STOCK – Number, comparisons and calculations may be required	4																														
(b)	One mark for correct rows Field and Table One mark for correct Show row One mark for correct Criteria row <table><tr><td>Field:</td><td>CATEGORY</td><td>MANUFACTURER</td><td>CODE</td><td>ECONOMYRATING</td></tr><tr><td>Table:</td><td>APPLIANCE</td><td>APPLIANCE</td><td>APPLIANCE</td><td>APPLIANCE</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td></td><td>= "A"</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table>	Field:	CATEGORY	MANUFACTURER	CODE	ECONOMYRATING	Table:	APPLIANCE	APPLIANCE	APPLIANCE	APPLIANCE	Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Criteria:				= "A"	or:					3
Field:	CATEGORY	MANUFACTURER	CODE	ECONOMYRATING																												
Table:	APPLIANCE	APPLIANCE	APPLIANCE	APPLIANCE																												
Sort:																																
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																												
Criteria:				= "A"																												
or:																																

Q48)

Question	Answer					Marks																																				
(a)(i)	InStock					1																																				
(a)(ii)	ProductID					1																																				
(b)	<p><b>One</b> mark for correct fieldnames <b>One</b> mark for correct table names and show fields <b>One</b> mark for correct sort <b>One</b> mark for correct search criteria in all columns</p> <table><tr><td>Field:</td><td>ProductID</td><td>ProductName</td><td>Animal</td><td>InStock</td><td></td></tr><tr><td>Table:</td><td>STOCK</td><td>STOCK</td><td>STOCK</td><td>STOCK</td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>=“cat”</td><td>=Yes</td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table>					Field:	ProductID	ProductName	Animal	InStock		Table:	STOCK	STOCK	STOCK	STOCK		Sort:	Ascending					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			=“cat”	=Yes		or:						4
Field:	ProductID	ProductName	Animal	InStock																																						
Table:	STOCK	STOCK	STOCK	STOCK																																						
Sort:	Ascending																																									
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																					
Criteria:			=“cat”	=Yes																																						
or:																																										

Q49)

Question	Answer	Marks
(a)	WEIGHT – Number, comparisons / calculations may be required PRICE – Currency, the price is in dollars / money CODE – Text, no calculations required, could be numbers or characters STOCK – Number, comparisons / calculations may be required	4

Question	Answer					Marks
(b)	Field:	CATEGORY	MANUFACTURER	PRICE	CODE	WEIGHT
	Table:	COMPUTER	COMPUTER	COMPUTER	COMPUTER	COMPUTER
	Sort:					
	Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Criteria:					< 2.5
	or:					
	<b>One</b> mark for correct rows Field and Table <b>One</b> mark for correct Show row <b>One</b> mark for correct Criteria row					
3						

Q50)

Question	Answer	Marks																																									
Section B																																											
	<p><b>Four</b> marks for five correct rows <b>Three</b> marks for four correct rows <b>Two</b> marks for three correct rows <b>One</b> marks for two correct rows</p> <table><tr><th rowspan="2">Description</th><th colspan="5">Data type</th></tr><tr><th>Boolean</th><th>Char</th><th>Integer</th><th>Real</th><th>String</th></tr><tr><td>a single character from the keyboard</td><td></td><td>✓</td><td></td><td></td><td></td></tr><tr><td>multiple characters from the keyboard</td><td></td><td></td><td></td><td></td><td>✓</td></tr><tr><td>only <b>one</b> of <b>two</b> possible values</td><td>✓</td><td></td><td></td><td></td><td></td></tr><tr><td>only whole numbers</td><td></td><td></td><td>✓</td><td></td><td></td></tr><tr><td>any number</td><td></td><td></td><td></td><td>✓</td><td></td></tr></table>	Description	Data type					Boolean	Char	Integer	Real	String	a single character from the keyboard		✓				multiple characters from the keyboard					✓	only <b>one</b> of <b>two</b> possible values	✓					only whole numbers			✓			any number				✓		4
Description	Data type																																										
	Boolean	Char	Integer	Real	String																																						
a single character from the keyboard		✓																																									
multiple characters from the keyboard					✓																																						
only <b>one</b> of <b>two</b> possible values	✓																																										
only whole numbers			✓																																								
any number				✓																																							

Q51)

Question	Answer	Marks																																				
(a)	8	1																																				
(b)	The primary key field must be unique/different for each record in the table	1																																				
(c)	<p><b>One mark per mark point, max three</b></p> <ul style="list-style-type: none"><li>• correct fields and table named correctly</li><li>• correct sort and show box rows</li><li>• correct search criteria</li></ul> <table><tr><td>Field:</td><td>GameID</td><td>GameName</td><td>GamePrice</td><td>NumberStock</td><td>OnOrder</td></tr><tr><td>Table:</td><td>GAMES</td><td>GAMES</td><td>GAMES</td><td>GAMES</td><td>GAMES</td></tr><tr><td>Sort:</td><td></td><td>Ascending</td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td></td><td>=0</td><td>="Y"</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	GameID	GameName	GamePrice	NumberStock	OnOrder	Table:	GAMES	GAMES	GAMES	GAMES	GAMES	Sort:		Ascending				Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:				=0	="Y"	or:						3
Field:	GameID	GameName	GamePrice	NumberStock	OnOrder																																	
Table:	GAMES	GAMES	GAMES	GAMES	GAMES																																	
Sort:		Ascending																																				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:				=0	="Y"																																	
or:																																						

Q52)

Question	Answer	Marks																																																												
(a)	<p><b>One mark per mark point, max <b>four</b></b></p> <ul style="list-style-type: none"><li>• correct rows Field and Table</li><li>• correct row Show</li><li>• correct Criteria for SingleUse <b>or/and</b> Uses</li><li>• correct Criteria for StockLevel less than ReorderLevel</li></ul> <table><tr><td>Field:</td><td>ItemNumber</td><td>Description</td><td>SingleUse</td><td>StockLevel</td></tr><tr><td>Table:</td><td>NURSE</td><td>NURSE</td><td>NURSE</td><td>NURSE</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>True</td><td>&lt;[ReorderLevel]</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table> <p>Or</p> <table><tr><td>Field:</td><td>ItemNumber</td><td>Description</td><td>Uses</td><td>StockLevel</td></tr><tr><td>Table:</td><td>NURSE</td><td>NURSE</td><td>NURSE</td><td>NURSE</td></tr><tr><td>Sort:</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td></td><td>= 1</td><td>&lt;[ReorderLevel]</td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td></tr></table>	Field:	ItemNumber	Description	SingleUse	StockLevel	Table:	NURSE	NURSE	NURSE	NURSE	Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			True	<[ReorderLevel]	or:					Field:	ItemNumber	Description	Uses	StockLevel	Table:	NURSE	NURSE	NURSE	NURSE	Sort:					Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:			= 1	<[ReorderLevel]	or:					4
Field:	ItemNumber	Description	SingleUse	StockLevel																																																										
Table:	NURSE	NURSE	NURSE	NURSE																																																										
Sort:																																																														
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																										
Criteria:			True	<[ReorderLevel]																																																										
or:																																																														
Field:	ItemNumber	Description	Uses	StockLevel																																																										
Table:	NURSE	NURSE	NURSE	NURSE																																																										
Sort:																																																														
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																										
Criteria:			= 1	<[ReorderLevel]																																																										
or:																																																														
(b)	the field Uses already shows this information // duplication of data // redundant data	1																																																												

Q53)

Question	Answer	Marks																																				
(a)	Larger	1																																				
(b)	<p><b>One</b> mark per mark point, max <b>three</b></p> <ul style="list-style-type: none"><li>• correct fields correctly named and table names</li><li>• correct sort and show box rows</li><li>• correct search criteria</li></ul> <table><tr><td>Field:</td><td>PlanetName</td><td>Larger</td><td>YearLength</td><td></td><td></td></tr><tr><td>Table:</td><td>PLANETS</td><td>PLANETS</td><td>PLANETS</td><td></td><td></td></tr><tr><td>Sort:</td><td>Ascending</td><td></td><td></td><td></td><td></td></tr><tr><td>Show:</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Criteria:</td><td></td><td>Yes</td><td>&gt;365</td><td></td><td></td></tr><tr><td>or:</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Field:	PlanetName	Larger	YearLength			Table:	PLANETS	PLANETS	PLANETS			Sort:	Ascending					Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Criteria:		Yes	>365			or:						3
Field:	PlanetName	Larger	YearLength																																			
Table:	PLANETS	PLANETS	PLANETS																																			
Sort:	Ascending																																					
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
Criteria:		Yes	>365																																			
or:																																						

Q54)

Question	Answer	Marks
(a)	<p><b>One</b> mark for the correct field name  <b>One</b> mark for the correct reason</p> <p><b>For example:</b></p> <p>TVCode  Each entry in this field is a unique identifier</p>	2

Question	Answer	Marks										
(b)	<p><b>Two</b> marks for four correct answers. <b>One</b> mark for two or three correct answers.</p> <table><tr><th>Field</th><th>Data type</th></tr><tr><td>TVCCode</td><td>Text</td></tr><tr><td>ScreenSize</td><td>Integer</td></tr><tr><td>SmartTV</td><td>Boolean</td></tr><tr><td>Price\$</td><td>Real</td></tr></table>	Field	Data type	TVCCode	Text	ScreenSize	Integer	SmartTV	Boolean	Price\$	Real	2
Field	Data type											
TVCCode	Text											
ScreenSize	Integer											
SmartTV	Boolean											
Price\$	Real											
(c)	<p><b>One</b> mark for each correct answer</p> <p>ScreenSize Price\$ FROM YES</p> <p><b>Correct code:</b></p> <pre>SELECT TVCCode, ScreenSize, Price\$ FROM TVRange WHERE SmartTV = YES;</pre>	4										

Q55)

Question	Answer	Marks										
(a)	SongNumber	1										
(b)	<p><b>One</b> mark for every <b>two</b> correct data types</p> <table><tr><th>Field</th><th>Data Type</th></tr><tr><td>SongNumber</td><td>Text/Alphanumeric</td></tr><tr><td>Title</td><td>Text/Alphanumeric</td></tr><tr><td>Recorded</td><td>Date/time</td></tr><tr><td>Minutes</td><td>Real</td></tr></table>	Field	Data Type	SongNumber	Text/Alphanumeric	Title	Text/Alphanumeric	Recorded	Date/time	Minutes	Real	2
Field	Data Type											
SongNumber	Text/Alphanumeric											
Title	Text/Alphanumeric											
Recorded	Date/time											
Minutes	Real											
(c)	<p><b>One</b> mark for each point</p> <ul style="list-style-type: none"><li>to find the total number of minutes of music</li><li>to find the total number of songs</li><li>available for the genre rock</li></ul>	3										

Q56)

Question	Answer	Marks
(a)	<p><b>One</b> mark for each correct answer</p> <p>Fields 5 Records 12</p>	2
(b)	to <b>uniquely identify</b> a record	1

Question	Answer	Marks										
(c)	<p><b>Two</b> marks for four correct answers. <b>One</b> mark for two or three correct answers.</p> <table><tr><th>Field</th><th>Data type</th></tr><tr><td>Type</td><td>Alphanumeric</td></tr><tr><td>Private</td><td>Boolean</td></tr><tr><td>Rate\$</td><td>Integer</td></tr><tr><td>NumberGuest</td><td>Integer</td></tr></table>	Field	Data type	Type	Alphanumeric	Private	Boolean	Rate\$	Integer	NumberGuest	Integer	2
Field	Data type											
Type	Alphanumeric											
Private	Boolean											
Rate\$	Integer											
NumberGuest	Integer											
(d)	<p><b>One</b> mark per mark point, max <b>three</b></p> <ul style="list-style-type: none"><li>data correctly extracted in any two rows</li><li>data correctly extracted in third row</li><li>data in correct order horizontally and vertically</li></ul> <p><b>Example answer:</b></p> <p>Bay Lodge 10 1000 Coppice Lodge 12 1200 West Lodge 12 1200</p>	3										

Q57)

Question	Answer	Marks												
	<p>One mark for each correct line from description to data type</p> <table><thead><tr><th>Description</th><th>Data type</th></tr></thead><tbody><tr><td>a whole number</td><td>BOOLEAN</td></tr><tr><td>a single letter</td><td>CHAR</td></tr><tr><td>a word or phrase</td><td>INTEGER</td></tr><tr><td>a number with two decimal places</td><td>REAL</td></tr><tr><td></td><td>STRING</td></tr></tbody></table>	Description	Data type	a whole number	BOOLEAN	a single letter	CHAR	a word or phrase	INTEGER	a number with two decimal places	REAL		STRING	4
Description	Data type													
a whole number	BOOLEAN													
a single letter	CHAR													
a word or phrase	INTEGER													
a number with two decimal places	REAL													
	STRING													

Q58)

Question	Answer	Marks
(a)	<b>One mark for each appropriate field name and correct data type</b> CatNo            text/alphanumeric Description    text/alphanumeric StockLevel     integer Price            real Painted         Boolean	<b>5</b>
(b)(i)	CatNo	<b>1</b>
(b)(ii)	Unique identifier	<b>1</b>
(c)	SELECT lists the fields to be displayed FROM identifies the table WHERE identifies the search criteria	<b>3</b>

Q59)

Question	Answer	Marks										
(a)	18	1										
(b)	<p><b>One</b> mark for the correct field name <b>One</b> mark for the correct reason</p> <p><b>For example:</b> Code ... ...Each entry in this field is a unique identifier</p>	2										
(c)	<p><b>Two</b> marks for four correct answers. <b>One</b> mark for two or three correct answers.</p> <table><thead><tr><th>Field</th><th>Data type</th></tr></thead><tbody><tr><td>Breed</td><td>text</td></tr><tr><td>Gender</td><td>Boolean</td></tr><tr><td>Age</td><td>integer</td></tr><tr><td>Arrived</td><td>date/time</td></tr></tbody></table>	Field	Data type	Breed	text	Gender	Boolean	Age	integer	Arrived	date/time	2
Field	Data type											
Breed	text											
Gender	Boolean											
Age	integer											
Arrived	date/time											
(d)	<p><b>One</b> mark for each correct answer</p> <pre>SELECT Horses BreedOrigin</pre> <p><b>Correct SQL:</b></p> <pre>SELECT Code, Breed FROM Horses WHERE BreedOrigin = "Scotland";</pre>	3										

Q60)

Question	Answer	Marks
(a)	Records: 14 Fields: 5	2
(b)(i)	Species/Description	1
(b)(ii)	Long names that could be easily misspelt // species or description could be duplicated	1
(b)(iii)	Easy to validate // always unique	1
(c)	<b>One mark for each correct row or column</b> True silver                      white laced top half and black lower half Brown eared                      brown with ear tufts	2
(d)	<b>One mark for each correct addition</b> <code>SELECT Species</code> <code>FROM PheasantList</code> <code>WHERE Breeding</code> <b>or</b> <code>WHERE Young = 0</code> <code>AND Young = 0;</code> <code>AND Breeding;</code>	4

Q61)

Question	Answer	Marks
(a)	<b>One mark for an appropriate reason if no has been stated, for example:</b> None of the fields are likely to contain unique data.	1
(b)	<b>One mark for each correct answer</b>  <code>SUM</code> <code>NumberInStock</code> <code>SoftDrinks</code> <code>Container</code> <code>'Can'</code>  Correct code:  <code>SELECT SUM (NumberInStock)</code> <code>FROM SoftDrinks</code> <code>WHERE Container = 'Can';</code>	5

Q62)

Question	Answer	Marks										
(a)	ContractNumber	1										
(b)	<p><b>One mark for every two correct data types</b></p> <table><tr><th>Field</th><th>Data type</th></tr><tr><td>ContractNumber</td><td>text/alphanumeric</td></tr><tr><td>Months</td><td>integer</td></tr><tr><td>EndDate</td><td>date/time</td></tr><tr><td>Sport</td><td>Boolean</td></tr></table>	Field	Data type	ContractNumber	text/alphanumeric	Months	integer	EndDate	date/time	Sport	Boolean	2
Field	Data type											
ContractNumber	text/alphanumeric											
Months	integer											
EndDate	date/time											
Sport	Boolean											
(c)	<p><b>One mark for each point</b></p> <p>MP1 to find the total number of months for <b>all</b> contracts</p> <p>MP2 to find the number of contracts</p> <p>MP3 ... that are subscribed to News</p>	3										
(d)	<p>ContractNumber</p> <p>News AND Sport // Sport AND News</p> <p>Example answer:</p> <pre>SELECT ContractNumber FROM Contract WHERE News // News = TRUE AND Sport // Sport = TRUE ;</pre>	2										

Q63)

Question	Answer	Marks
(a)	Fields – 6 Records – 11	2

Question	Answer	Marks
(b)	<p>MP1 Correct models of planes selected</p> <p>MP2 Correct Years of planes selected</p> <p>MP3 Correct numbers of engines selected with data all matching for each record</p> <p>MP4 Data sorted correctly with no additional fields or punctuation</p> <p>Correct output:</p> <pre>314 Clipper 1936 4 C-47 Dakota 1942 2 Nimrod 1966 4 DC-10 1970 3 Concorde 1973 4</pre>	4
(c)	<p>MP1 Correct additional keywords used – FROM, WHERE</p> <p>MP2 Correct SELECT field – Model with no additional fields</p> <p>MP3 Correct table name - Hangar1</p> <p>MP4 Correct search criteria - Airworthy = Y // Airworthy</p> <p>Correct code:</p> <pre>SELECT ID, Model FROM Hangar1 WHERE Airworthy = Y // Airworthy;</pre>	4

Q64)

Question	Answer	Marks
(b)(ii)	Unique identifier	1
(c)	<b>One mark for each</b> <ul style="list-style-type: none"> <li>CH04 0.0</li> <li>CH05 50.0</li> </ul>	2
(d)(i)	<b>One mark each correct line</b> SELECT Name FROM CheeseStock WHERE NOT InStock // InStock = No / "No" / False // WHERE WeightKg = 0.0;	3
(d)(ii)	<b>One mark for each point</b> <ul style="list-style-type: none"> <li>WHERE clause can check either the InStock field for FALSE / No / "No" or</li> <li>the WeightKg field for 0.0</li> </ul>	2

Q65)

Question	Answer	Marks										
(a)	<b>One</b> mark per mark point <ul style="list-style-type: none"><li>Fields – 11</li><li>Records – 15</li></ul>	2										
(b)	The <u>Type</u> field contains data that repeats / Data is not unique	1										
(c)	<b>Two</b> marks for <b>four</b> correct fields <b>One</b> mark for <b>two</b> or <b>three</b> correct fields <table><tr><th>Field</th><th>Data type</th></tr><tr><td>RoomNo // Type</td><td>alphanumeric</td></tr><tr><td>Mon // Tue // Wed // Thu // Fri // Sat // Sun</td><td>Boolean</td></tr><tr><td>Rate\$</td><td>real</td></tr><tr><td>Guests</td><td>integer</td></tr></table>	Field	Data type	RoomNo // Type	alphanumeric	Mon // Tue // Wed // Thu // Fri // Sat // Sun	Boolean	Rate\$	real	Guests	integer	2
Field	Data type											
RoomNo // Type	alphanumeric											
Mon // Tue // Wed // Thu // Fri // Sat // Sun	Boolean											
Rate\$	real											
Guests	integer											
(d)	<b>One</b> mark per mark point <ul style="list-style-type: none"><li>Data from 4 correct columns printed – any number of rows, any order</li><li>Data in rows ordered as shown (row and column) at least two rows and two columns required</li><li>All data correct with <b>no</b> extra content</li></ul> <b>Correct output</b> 104S Single 1 72.50 105S Single 1 72.50 201F Family 4 160.00 301D Double 2 200.00 304P Suite 6 700.00	3										

Q66)

Question	Answer	Marks
(a)	<b>One mark for each line (max two)</b> <b>One mark for order of lines</b>  MT12 Pebbles large MT06 Cobbles	3

Question	Answer	Marks
(b)(i)	<b>One mark for correct SELECT and FROM clauses, one mark for correct WHERE clause</b>  SELECT Name FROM BuildStock WHERE NOT InStock // InStock = FALSE / No / "No" // WHERE NumberBags = 0;	2
(b)(ii)	<b>Two marks for either point</b> <ul style="list-style-type: none"> <li>WHERE clause can check the InStock field (1) for FALSE / No (1)</li> <li>or</li> <li>WHERE clause can check the NumberBags field (1) for 0 (1)</li> </ul>	2

