## HANDOUT FOR CHAPTER 13

## DATABASES

Marking Scheme

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1 (a) - 7 [1]

(b) - Brochure No

Uniquely identifies each property

(c) Garage – Boolean

Number of Bedrooms – Number/Integer/Single

Price in \$ – Number/Single/Real/Currency [3]

[2]

(d) 399000 H13

450000 H10 [2]

(e)

Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	X		X	X
Criteria:		True	< 200000	
or:				

or

Field: **Property Type** Garage Price in \$ **Brochure No** Table: **PROPERTY PROPERTY PROPERTY PROPERTY** Sort: Show:  $\mathbf{X}$  $\mathbf{X}$ X Criteria: Yes < 200000

or:

or

Field: Property Type Price in \$ **Brochure No** Garage Table: **PROPERTY PROPERTY PROPERTY PROPERTY** Sort: Show:  $\mathbf{X}$ X  $\mathbf{X}$ Criteria: =Yes < 200000 or:

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Field:	Property Type	Garage	Price in \$	Brochure No
Table:	PROPERTY	PROPERTY	PROPERTY	PROPERTY
Sort:				
Show:	X		X	X
Criteria:		=-1	< 200000	
or:				
	(1 mark)	(1 mark)	(1 mark)	(1 mark)

[4]

2	(a)	<b>-7</b>				[1]		
	(b)		– Class ID – Uniquely identifies each student					
	(c)	– both r	Diana Abur, Paul Smith  – both names  – correct order					
	(d	)				Ī		
		Field:	Student Name	Maths	English	Í		
		Table:	MARKS	MARKS	MARKS	Ì		
		Sort:				Ī		
		Show:	Х			Ì		
		Criteria:		<40	<40	Ì		
		or:				1		

(1 mark)

(1 mark)

[3]

(1 mark)

3	(a) - all (fields) have (1 mark) duplicate entries (1 mark)	
	<ul><li>none (of the fields) (1 mark) have unique entries(1 mark)</li></ul>	[2]
(b	) – e.g. StaffNumber	
	$-\ldots$ . 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:	X	X			
Criteri a:					
or:					
	(2 marks)	(2 marks) (1 ma	ark for correct ord	ler and number of t	ields show

wn) [5]

4 (a) -7 [1]

(b) – Brochure Number......

- ..... Uniquely identifies each record/each Brochure Number different/no duplicates

(c) - Number of Seats - number/integer

- Price in \$ - currency/real [2]

(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:	X	X	X	X	
Criteria:					>2
or:					
	(1 mark)	(1 mark)	(1 mark)	(1 mark)	(1 mark)

[5]

[2]

Question			Α	nswer			Marks
5(a)	-It is the p	Any <b>one</b> from: -It is the primary key/key field with unique data -(Fixed length) text field with alphanumeric data				1	
5(b)	Fiel	ld name	Data type				
	Scr	eenSize	Number				
	3D		Boolean				
	Cur	vedFlat	Text				
	Inte	rnet	Boolean				
	HDI	D	Boolean				
	Pric	е	Currency				
	1 mark fo	r every two	correct data ty	pes			
5(c)	Field:	TVID	ScreenSize	CurvedFlat	HDD	Price	5
	Table:	TVSTOC	( TVSTOCK	TVSTOCK	TVSTOCK	TVSTOCK	
	Sort:					Ascending	
	Show:	X	Х			Х	
	Criteria:			="CV"	YES		
	or:						
		(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	(1 Mark)	

Question	Answer	Marks
6(a)	for each field name (1), data type and sample (1)  The following are examples there are many different correct answersEarTag (1), text, EAR1011 (1) -DOB (1), date, 4/3/2017 (1) -Gender (1), text, M (1) -Weight (1), number, 5.9 (1)	8

Question			Answer		Marks
6(b)	EarTag				1
6(c)	Field:	EarTag	Gender	Weight	3
	Table:	SHEEP	SHEEP	SHEEP	
	Sort:				
	Show:	X			
	Criteria:		='M'	> 10	
	or:				
		(1 mark)	(1 mark)	(1 mark)	

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

Question			Answer			Marks
7(c)	Field:	Туре	Sold Out	Date	Title	4
	Table:	PERFORMANCE	PERFORMANCE	PERFORMANCE	PERFORMANCE	
	Sort:					
	Show:			Х	X	
	Criteria:	Like "Jazz"	False			
	or:					
	One mark p	per correct column.				

Question				Answer			Marks			
8(a)	Fields	5					1			
8(b)	One mark for Example	Use a new character instead of N								
8(c)		True		Age in Years TREES >100	Type TREES	Map Position TREES x	4			
	One mark p	ne mark per correct column								

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

Question		Answer									
9(c)	One mark f	or every <b>tw</b>	o correct data	types				2			
	Field	d	Data Type								
	Cath	No	Text								
	Title		Text								
	Gen	re 1	Text								
	Stre	Stream Boolean / Text									
9(d)	One mark f	e mark for each correct row									
		18m02 Golfwatch Yes No Yes									
			air 27 Yes		No						
	Accept if dr	awn in a ta	ble, but don't a	llow any pund	ctuation						
9(e)	Field:	CatNo	Title	Genre 1	Genre 2	Stream		4			
	Table:	2018MOV	2018MOV	2018MOV	2018MOV	2018MO\	/				
	Sort:		Ascending								
	Show:	X	X								
	Criteria:			="Sci-Fi"		Yes					
	or:				="Sci-Fi"	Yes					
		ቁ 1 mark ድ ቁ 1 mark ድ ቁ 1 mark ድ									
	One mark per completely correct column / group of columns as shown.										

Question			Answer					Marks		
10(a)	Each data	value is unique						1		
10(b)	10 records	,						1		
10(c)	Bev07 Bev01		ade					3		
	1 mark for	mark for each correct content     mark for each correct format     mark for correct order								
10(d)	Field:	BevNo	BevName	Calories				4		
	Table:	BEVERAGES	BEVERAGES	BEVERAGES						
	Sort:		Ascending							
	Show:	X	X							
	Criteria:			>45						
	or:									
	1 mark for correct Field row 1 mark for Table and Sort rows 1 mark for correct Show row 1 mark for correct Criteria rows									

Question			Ar	swer			Marks		
11(a)	Passengers	1					1		
11(b)	□ Pass □ Dep		yed when s not >				7		
	1 mark per l	E – answers soullet rect field and to lude Notes, Flinect show rect time critered of criteria to see the see of criteria to see the large see	able name ight numbe	s (either r and De	3 or 4 colusparture times	d			
	Field: F	Field: Flight number Passengers Departure time Notes							
	Table:	FLIGHT	FLIGHT	F	LIGHT	FLIGHT			
	Sort:								
	Show:	X							
	Criteria:		=Y		>10:00	<> "Freight and passengers"			
	or: OR								
	Field:	Flight numbe	er Depai	ture time	)	Notes			
	Table:	FLIGHT	FLI	GHT		FLIGHT			
	Sort:								
	Show:	ow: X							
	Criteria:		>10:00 = "Passengers only"						
	or:		>1	0:00	="P	rivate passenger flight"			

Question			Answer				Marks			
12(a)	Number is rep	peated/not unique	)				1			
12(b)	Departure tim Criteria of =Y All late trains	ain number not displayed parture time before 8:30 teria of =Y for Platform not required/incorrect late trains will be shown/the condition should be on the line above marks, one mark for each correct column								
	Field:	Train Number	Platform	Departure Time	Status					
	Table:	TRAIN	TRAIN	TRAIN	TRAIN					
	Sort:									
	Show:	X	X							
	Criteria:			> 08:30	= "Late"					
	or:									

Question				Answer				Marks			
13(a)	To uniquely identi	fy a product (in TOC	DLS)					1			
13(b)	HS50 Hose (50 metres) 60 GFLG Garden Fork 50 LMPT Lawn Mower (Petrol) 25  One mark for correct data One mark for correct format One mark for data in correct order							3			
13(c)	Field:	Code	Description	Quantity_Stock				3			
	Table:	TOOLS	TOOLS	TOOLS							
	Sort:	Ascending									
	Show:	Ø	Ø	Ø							
	Criteria:			<25							
	or:										
	One mark for each	One mark for each completely correct column (max three)									

Question			Answe	er			Marks
14(a)	One mark for field and one mark for reason Field Juice code Reason only unique identifier						
14(b)	Field:	Fruit 1	Fruit 2	Size	Stock level		4
	Table:	JUICE	JUICE	JUICE	JUICE		
	Sort:						
	Show:			Ø	Image: section of the		
	Criteria:	="Apple"	="Apple"				
	or:						
	One mark for each cor	rect column					

Question	Answer						
15(a)		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 fieldnam	e and description pair				

Question			Answer			Marks
7(b)	Field:	CodeNo	Product	NumInStock		3
	Table:	STOCK	STOCK	STOCK		
	Sort:					
	Show:	Ø	$\square$			
	Criteria:			<20		
	or:					
	One mark for each completely cor	rect column (ma	x three)			