

Worksheet:2 - Grade 7 Computing - Unit 2: Managing Data, Topic 2.3

Name	:		Clas	ss/Section	Data:		
Sectio	n A: Fill i	in the Blanks us	ing words from	the list provided. S	ome of the wor	ds in the list will no	t be used.
		rule	unique	< 80	Primary Key	Record	
		duplicate	> 80	Greater than		Field	
1.	A Prima	ary Key must co	ontain a	value for ev	ery single reco	rd, helping to preve	nt
	duplica	te entries.					
2.	When s		abase, a criterio	on is a	used to fil	ter which records ar	·e
3.	In a dat data giv	_	ne > operator in	a query will select	numbers that a	re	the
4.	In a dat	tabase table, th	e row is called a	a	·		
5.	To find	all students wi	th marks greate	er than 80, we can u	se the criterion	/rule	
Sectio	n B: Mu	ltiple Choice Qı	uestions (MCQs	:)			
1.	Which	field best repre	esents a Primary	y Key in a school's o	database table	of students?	
	a) Teac	her's Name b) Date of Birth	c) Favourite Subject	ct d) Student I	D	
2.	A comr	mand or functio	on that retrieve	s and filters data b	ased on specific	criteria is called:	
3.	•	•	c) Data d) C	Chart riterion "Age < 12"	, which records	will be returned?	
	a) age :	12 and over b) age exactly 12	c) age 11 and und	der d) All reco	rds	
4.		symbol is used b) > c) < c		in a search criterio	n/rule?		
5.			-	products that cost ost > 1000 d) Cost)?	
6.	This ty	pe of condition	al formatting u	ses colours to show	low, medium	, and high	
	a) Form	nulas b) Colo	ur Scales c) Da	ata bars d) Icon s	ets		

Section C: Short Answer Questions

1.	Explain in one sentence wh	y a field like First Name is a	poor choice for a Primary	y Ke	y.
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2.	Explain why	Conditional Formatting	g is a useful tool w	hen analysing	data in a large spreadsh	eet.
	Explain willy	Conditional Formatting	b is a ascial tool wi	iicii aiiaiysiiig	autu iii a laige spi caasii	٠

3. If you use a single criterion to search a database using text fields, like Game Name < "S", which part of the alphabet will the returned results be from?

Section D: Database and Spreadsheet Scenario Questions

Scenario 1: Primary Keys and Database Structure

Player Number	Player Name	Game Name	Age Rating	Genre
1	Mohammed Khan	Bill & Betty	12+	2D Platform
2	Charlie Jones	Build Blocks	3+	Arcade
3	John Adams	Ping Pong	3+	Arcade
4	Mohammed Khan	Bill & Betty	12+	2D Platform
5	Carla Estevez	Ping Pong	3+	Arcade

1	Which field in the	table above can be	selected as the Primary Kev
Ι.	which field in the	e table above can be	. selected as the Primary Key:

2. Explain why Player Name is not a suitable field to be the Primary Key in this table.

Section E: Match the Columns (5 marks)

Column A	Column B
1. Table	a) consists of two or more columns to uniquely identify a record.
2. Record	b) A column in database table
3. Field	c) Collection of records arranged in rows and columns
4. Composite Primary Key	d) A Row in a table

Section F: Short Answer Questions

1. What is a query? Give one example.

4. Write	one example of a sear	ch query that shows	students who	scored less tha	n 50 mark	s.	
Section G: S	Spreadsheet and Datab	ase Scenario Questi	ons				
Question 1	(Database Scenario):			Student ID	Name	Age	Marks
You	are managing a databa	ase of students:		ST01	Ayesha	13	82
• Writ	te a criterion to find stu	dents who have ma i	rks greater	ST02	Ahmed	12	76
thar	າ 80			ST03	Sana	14	65
• Writ	te a criterion to find stu	dents who are youn	ger than 13.	ST04	Bilal	13	89
	: School Library Databa		rse table called Year_Publis		oies_Avail	able	
Book_ID	Title		1911	4			
Book_ID	Title The Secret Garden	F. H. Burnett	1 -3		2		
		F. H. Burnett R. J. Palacio	2012				
B001	The Secret Garden						
B001 B002	The Secret Garden Wonder	R. J. Palacio	2012	2			

Quest	tion 3: Look at the computer	Game code	▼ Game name	▼ Genre	<u> </u>	Age rating (Age+)	, , ,	
game	es database table on the right:	BB01			•	Age rating (Aget)	12	
•	G	BB02	Build Blocks	2D platform Arcade			3	
а	a. What is the primary key	PP01	Ping Pong	Arcade			3	
	in computer game	SA01	Super Adventurer	2D platform			12	
	database?	BSB01	Blocks Super Build	Puzzle			3	
	dalabase?	TGR01	The Great Race	Racing			3	
		TPT01	Theme Park Tycoon	Simulation			8	
_		HSH01	Home Sweet Home	Simulation			8	
b	o. Write a query to select	WIO01	Work It Out	Puzzle			8	
	schools greater than B:	PB01	Point Blank	2D platform			12	
	G	TR01	Train Ride	2D platform			8	
		HM01	Hospital Manager	Simulation			8	
_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BK01	Bungo Kawaii	3D platform			8	
С	c. Why is the Genre field	FB01	Flip Buggy	Racing			3	
	not appropriate to be set	CD01	Countdown Doug	Puzzle			8	
	as the primary key?	CC01	Chuck's Challenge	3D platform			12	
	do the primary ney i	RB01	Risky Business	Simulation			12	
_		WC01	Word Crush	Puzzle			8	
		Z01	Zoomer	Racing			12	
		DG01	Diggy Hole	Simulation			3	
		PC01	Portal Combat	Arcade			12 3	
		AB01	Angry Bugs	Puzzle				
i. ii.	Which results are in your question what criteria you use		query and why?					
Quest	tion 4: Make a query by following	the directior	ns given below abou	t the table of	Fruits sho	wn:		
	a) Select Fruits less that	an D:			Δ	1		
				1	FRU	ITS		
				2	App	les		
	b) Select Fruits greater	than D:		3	Tange	erines		
				4	Bana	anas		
				5	Pea	ars		

Pineapples