6-A-Day – Computer Science GCSE (34)

Q1	The security code for an alarm system is	The security code for an alarm system is a long binary number which begins								
	10001111100101111011									
	The technicians prefer to use hexadecimal to enter the security code.									
	(i) When the number is converted into hexadecimal, the first two digits are 8F as shown below.									
	Complete the gaps to show the next three digits.									
	Binary: 1000 111	11 1001 0111 1011								
	Hexadecimal: 8 F	[3]								
Q2	(ii) Explain why the technicians prefer to	use hexadecimal.								
Q3	ticket and receipt. Describe two ways that the customers can use it. 1	nation using a touch screen, pay by card and receive a printed hardware in the computer terminal can be adapted so that blind								
		[4]								

A sample of the data in this table is shown below. TrackNo	Q4	An MP3 player contains a database of songs. This database has only one table.									
O01 Dave Eade Holidays 3.7 3 True O02 Tail Seeing You 2.7 0 True O03 Dave Eade Truly Cool 4 111 False O04 Aries Love 1.9 0 True O05 MC Nail Skit 0.4 0 False O06 The Files Skit 0.6 4 False O07 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables. [4] Q6 State what is meant by compression.		A sar	mple of the	data in this tab	le is shown belov	N.					
O2 Tail Seeing You 2.7 0 True O3 Dave Eade Truly Cool 4 11 False O4 Aries Love 1.9 0 True O5 MC Nail Skit 0.4 0 False O6 The Flies Skit 0.6 4 False O7 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.			TrackNo	Artist	Song	Length	TimesPlayed	Protected			
O3 Dave Eade Truly Cool 4 11 False O04 Aries Love 1.9 0 True O05 MC Nail Skit 0.4 0 False O06 The Flies Skit 0.6 4 False O07 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.			001	Dave Eade	Holidays	3.7	3	True			
O04 Aries Love 1.9 0 True O05 MC Nail Skit 0.4 0 False O06 The Flies Skit 0.6 4 False O07 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables. [4] Q6 State what is meant by compression.		†	002	Tail	Seeing You	2.7	0	True			
Q5 MC Nail Skit 0.4 0 False 006 The Flies Skit 0.6 4 False 007 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.		†	003	Dave Eade	Truly Cool	4	11	False			
Q6 The Flies Skit 0.6 4 False 007 MC Nail Game Over 2.7 1 True Write down the query that will select all songs over 2.5 minutes, which have never been played. [8] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.		1	004	Aries	Love	1.9	0	True			
Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.			005	MC Nail	Skit	0.4	0	False			
Write down the query that will select all songs over 2.5 minutes, which have never been played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables. [4]		1	006	The Flies	Skit	0.6	4	False			
Played. [3] The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables. [4] Q6 State what is meant by compression.			007	MC Nail	Game Over	2.7	1	True			
The mp3 player can be connected to a computer from which songs can be added. The computer has a relational database with many tables. Explain, using an example, what is meant by an entity and how entities relate to the tables.				query that will	select all songs	over 2.5 mi	nutes, which hav	e never been			
Explain, using an example, what is meant by an entity and how entities relate to the tables. Explain, using an example, what is meant by an entity and how entities relate to the tables. [4]	0.5							[3]			
State what is meant by compression.		Explain, usin	s a relation	mple, what is	meant by an e	entity and	how entities re	elate to the tal	bles.		
	Q6										
1									[1]		