## **Topical Past Papers 2015 to 2022:**



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			[3]		
	le data from the USER ta	I I	DataOfRiat		
UserName	FirstName	SecondName	DateOfBirt		
gem123	John	Smith	01/01/1995		
purpleSky	Muhammed	Ali	23/02/1956		
OpenWindow	Sunny	Amir	03/03/1997		
bluebird127	Raziya	Bello	04/03/1982		
W					
write an SQL scrip	t to create the USER tabl	e. 			
••••••			[5]		
	The database administrator needs to alter the USER table. A new field, Country, needs to be added. Write an SQL script to add the field Country to the USER table.				



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## **ANSWERS:**

9608/12/M/J/18

Question	Answer			
7(a)(i)	7(a)(i)  1 mark per bullet    var   UserName   is the primary key   in USER     var   UserName   is (included as) a foreign key   in PHOTO			
7(a)(ii)	1 mark for each correct relationship	2		
	PHOTO SUSER TEXTPOST			

Question	Answer	Marks
7(b)	1 mark per bullet to max 2 for explanation  Referential integrity is making sure tables do not try to reference data which does not exist // A value of one attribute of a table exists as a value of another attribute in a different table  A primary key cannot be deleted unless all dependent records are already deleted  Cascading delete  A primary key cannot be updated unless all dependent records are already updated  Cascading updated  Cascading update / edit  Every foreign key value has a matching value in the corresponding primary key  The foreign keys must be the same data type as the corresponding primary key	3
	1 mark for a suitable example	
	e.g.	
	<ul> <li>A UserName cannot be deleted from the USER table if they have a related photo/textpost</li> </ul>	
	ø If UserName is updated in USER table, it must also be updated in PHOTO and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in PHOTO and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in PHOTO and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table, it must also be updated in  photo and TEXTPOST tables  ø If UserName is updated in USER table  ø If UserName is updated in US	
	© Cannot create/edit a record in TEXTPOST / PHOTO without a matching entry in USER table	

7(c)	Max 1 mark from each bulleted group	3			
	1NF				
	no No repeated groups of attributes				
	All attributes should be atomic				
	<ul> <li>No duplicate rows</li> <li>2NF (in 1NF and)</li> <li>No partial dependencies</li> <li>3NF (in 2NF and)</li> <li>No non-key dependencies</li> </ul>				
			™ No transitive dependencies		
			7(d)(i)	1 mark per bullet	5
				∞ CREATE TABLE USER and ();	
				∞ UserName, FirstName and SecondName as VARCHAR and commas	
	<pre>primary Key(UserName)</pre>				
	∞ An appropriate NOT NULL				
	CREATE TABLE USER (				
	UserName: varchar(15) NOT NULL,				
	FirstName: varchar(25),				
	SecondName: varchar(25),				
	DateOfBirth: Date,				
	PRIMARY KEY(UserName)				
	);				

Question	Answer	Marks
7(d)(ii)	1 mark per bullet  ** ALTER TABLE USER  ** ADD COUNTRY varchar;  ALTER TABLE USER	2
	ADD Country varchar;	

