**QUESTION Create Remote Web Service methods to give access to a database table [16 marks]**

A "starter kit" app is already provided as app

**2-1 Database Setup [2 marks]**  
Use your database account to create a new empty database to work with.  
Name it in a similar way to your starter database using "Music" as the 3rd part of the database name.  
eg John creates this new database as "CDQ3\_John\_Music"

Then load the supplied script "MvcMusicStore\_JPC\_v03.sql" into SQL Management Studio (or Visual Studio). Edit the name of your new database into the script .  
Run the script to populate the database. Check that music-related tables have appeared.

In app file "appsettings.json" edit the connection string to connect to the database you have just created.

**2-2 Generate Models [2 marks]**  
Create a "Scaffold-DbContext" command and run it in the "Package Manager Console"  
to cause your app systems to scan the database tables and generate the classes for data access.  
Do the necessary follow-ups to get data access working.

**2-3 Create Controller [2 marks]**  
Create an empty MVC Controller with a name of "GenresController".  
Add code for Database Access.  
 **2-4 In "GenresController", create Remote Web Service methods: [4 marks]**

2-4-1 "GetAllGenres" - a GET method which gets all genres from the database. There are no parameters.

2-4-2 "GetGenre" - a GET method which gets one genre from the database.   
 There is one input parameter: string genreId.

2-4-3 "PostNewGenre - a POST method which adds data for one new genre into the database.  
 There is one input parameter: string json.

2-4-4 "PostUpdateGenre" - a POST method which updates data for one existing genre in the database.  
 There is one input parameter: string json.

**2-5 Add CORS code to enable Client Apps from 2 other domains to use methods in this app. [2 marks]**  
Allow clients from only these 2 domains:  
https://manukau.ac.nz https://musicstore.example.com

**2-6 Written Response [4 marks]**  
Discuss how OAuth2 security could be applied to this app and for what purpose?  
Write this response into "Practice Question.docx" provided.

**QUESTION - Create a Client web page to consume a Remote Web Service method   
 which provides data from a database [6 marks]**

JPC has created his version of the Server App from the Question above and published it at this URL:

<https://musicserver201809030943.azurewebsites.net>

Provide a client web page using html5, css and JavaScript to read the list of all Genres  
from method "GetAllGenres" in Controller "GenresController" and display them as a table.  
  
A "starter kit" web app "GenresClient" is already provided under folder "Question03".   
Provide a genres page by working on the supplied file "Genres.html".