**Assignment 2 – Stored Procedures**

Using the Covid Database (MS SQL Backend) that you created earlier in the class, perform the following tasks:

**Part 1 – DDL (10 pts)**

* 1. Create a [Vitals] table that includes a link to the [Patient] Table, the [Vitals] table should include the following data:
     1. Patient Id
     2. VitalsTypeId
     3. VitalsDT
     4. VitalsValue
  2. Insert the following patients into your Patient table  
     1. James Brown
     1. Name: James Brown
     2. HCN: 757234587

2. Marvin Gaye

* + 1. Name: Marvin Gaye
    2. HCN: 75777761
  1. Create a table named [VitalsType] and include the following data:
     1. VitalsTypeId
     2. VitalsTypeName
  2. Insert Into [VitalsType] the following values

INSERT INTO VitalsType VALUES(1,'HR');

INSERT INTO VitalsType VALUES(2,'Temp');

INSERT INTO VitalsType VALUES(3,'MAP');

INSERT INTO VitalsType VALUES(4,'SBP');

INSERT INTO VitalsType VALUES(5,'DBP');

**Part 2 – Stored Proc (15 pts)**

Create a stored procedure that:

1. Checks to make sure that a [Vitals] Table exists and if not then create it (2pts)

Hint use:

IF NOT EXISTS(SELECT [name] FROM sys.tables WHERE [name] = 'TableName')

BEGIN

CREATE TABLE [dbo].[TableName](

...

)

END

1. INSERTS the following Info into the [Vitals] table ( 3pts)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Patient | Date | HR | Temp | SBP | DBP |
| James Brown | 01-Jan-20 | 85 | 36.1 | 134 | 91 |
| Marvin Gaye | 02-Jan-20 | 67 | 37.5 | 145 | 87 |
| James Brown | 03-Jan-20 | 81 | 38.1 | 154 | 97 |
| Marvin Gaye | 04-Jan-20 | 72 | 37.5 | 157 | 88 |

1. Update the [MAP] column in the [Vitals] table based on the following formula (3pts):

MAP = (SBP + 2\* (DBP)) /3

1. Using a Cursor loop through the [Vitals] table and print out the PatientName and the MAP for each day, sorted by Patient Name and Date (5pts)
2. Please ensure your code has a TRY/CATCH/THROW block (2pt)

Please submit your sql script with Part 1 and 2 included in a single file to BrightSpace.

The assignment is due on Friday, 12 March 2021 at midnight.