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)

a. Create a [Vitals] table that includes a link to the [Patient] Table, the [Vitals] table should include the following data:
   i. Patient Id
   ii. VitalsTypeId
   iii. VitalsDT
   iv. VitalsValue

b. Insert the following patients into your Patient table
   1. James Brown
      i. Name: James Brown
      ii. HCN: 757234587
   2. Marvin Gaye
      iii. Name: Marvin Gaye
      iv. HCN: 75777761

c. Create a table named [VitalsType] and include the following data:
   i. VitalsTypeId
   ii. VitalsTypeName

d. 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
```

2. 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

3. Update the [MAP] column in the [Vitals] table based on the following formula (3pts):
   MAP = (SBP + 2* (DBP)) /3
4. 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)
5. 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.