C#.NET ASSESSMENT 4

ASSESSMENT 4 - UNIT 6: SQL QUERIES

Core concepts: SQL Queries

CHALLENGE A

OVERVIEW

Within SSMS, create the following table, named **students**, and alter it as requested.

id	firstname	lastname	email	phone
1	Jane	Doe	jane@example.com	313-555-0001
2	James	Smith	james@example.com	313-555-0002
3	Susan	Jones	susan@example.com	313-555-0003
4	Javier	Rodriguez	javier@example.com	313-555-0004
5	DeAndre	Taylor	deandre@example.com	313-555-0005

SUBMISSION:

Clone the repository and paste all SQL code necessary to complete this challenge into the provided **answers.sql** file, including the statement to create the table. For each of the ten numbered bullets you should have some SQL code. You do not need to submit the results of the queries, just the SQL code itself.

SETUP:

Create a database named **StudentDB** within which to create the students table.

SQL STATEMENTS:

1. Construct a table named **Students**. Students has 5 columns.
    - **Id** - int, auto increment
    - **FirstName** - nvarchar 20
    - **LastName** - nvarchar 20
    - **Email** - nvarchar 30
    - **Phone** - nvarchar 30
2. Add the 5 students from above to the table.
3. Update the student with the **Id** of **4** to have a **LastName** of **'Chirpus'**.
4. Remove the student with the **Id** of **5**.

5. Select all students that have a **FirstName** of **James**.
6. Select all students that have both **FirstName** starting with **"J"** and **Id** greater than **3**. (In this case, only Javier would match.)
7. Construct an additional table named **assignments**. Assignments has 4 columns.
    - **Id** - int, auto increment
    - **Title** - nvarchar 40
    - **Score** - tinyint
    - **StudentId** - This is a foreign key reference to **Students**. Choose the appropriate data type. (Note this is a many-to-one relationship: many assignments to one student.)
8. Add these three assignments.
    - student: **Jane**, title: **Geography Quiz**, score: **85**
    - student: **Jane**, title: **US States Worksheet**, score: **10**
    - student: **Javier**, title: **Geography Quiz**, score: **92**
9. In one SQL statement, list all the assignments including at least the **Title**, **Score**, student **FirstName** and student **LastName** for each. (It's okay if more columns also appear in the results.)
10. In one SQL statement, get the first and last names of all students that scored **above 90** on the **Geography Quiz**. (This time, include ***only*** the **FirstName** and **LastName** columns in the result.)