SQL Skill Based Assessment (SBA)

Defining, Populating and Querying Database Tables

Objectives: This exercise is to test your skills with Databases and Structured Query Language (SQL). It will utilize your knowledge of SQL Data Definition Language (DDL), Data Modification Language (DML), and Data Query Language (DQL); most emphasis is placed on the DQL portion.

Prerequisites: You will be provided with a script **sba_inserts.sql** which will populate the tables.

Deliverables: When you complete this assessment, you will provide two sql script files named **sba_schema.sql** and **sba_queries.sql**. These scripts will contain (in order) all of the select statements that you will write for steps 1 and 4 of this exercise.

Scoring

1. All scripts must run.

2. **The scripts must be formatted for readability.** Use indentation and line returns to make each statement readable. Poor readability may discount as much as 10% of the total possible score.

3. For DDL statements, the created tables must match the expected schemas. All field names and types must be correct, and all keys (primary and foreign) must be defined correctly.

4. For DQL statements, the expected output must be matched exactly. Extra, missing, or incorrectly named columns are discounted. The number of results for each query must be as expected, and when ordering is specified, the ordering of rows must be correct.

5. Use of comments embedded into your scripts is encouraged if those comments make the script easier to understand.

College Management System Schema

FacultyCourse

FacultyID	INT	PK FK
CourseID	INT	PK FK

Faculty

ID	INT	PK
FirstName	VARCHAR(30)	
LastName	VARCHAR(50)	
DeptID	INT	FK

Course

ID	INT	PK
Name	VARCHAR(50)	
DeptID	INT	FK

Department

ID	INT	PK
Name	VARCHAR(30)	

Student

ID	INT	PK
FirstName	VARCHAR(30)	
LastName	VARCHAR(50)	
Street	VARCHAR(50)	
StreetDetail	VARCHAR(30)	
City	VARCHAR(30)	
State	VARCHAR(30)	
PostalCode	CHAR(5)	
MajorID	INT	FK

StudentCourse

CourseID	INT	PK FK
StudentID	INT	PK FK
Progress	INT	
StartDate	DATE	

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