

CIS 11051 – PRACTICAL FOR DATABASE DESIGN
DEPARTMENT OF ICT
FACULTY OF TECHNOLOGY
SOUTH EASTERN UNIVERSITY OF SRI LANKA

Title: In Class Assignment 2

Time allowed: 2 Hours

Instructions:

1. Create a folder on the Desktop named with your registration number, followed by "_DB"
e.g., SEU/IS/22/ICT/000_DB
2. Inside the folder, create a Word document and place **your registration number at the top of the document in 14-point font size.**
3. For **each question**, write the **question number**, then **include the corresponding code and outputs as screenshots** in order.
4. Export the Word document to **PDF format** and rename the PDF file with **your registration number.**
5. **The final PDF document should have your answers (screenshots) in an orderly sequence, with the question numbers, ready for submission.**

Questions:

1. Create a **database** named **"dbCA2"** to insert the following data into the table and do the following tasks:
 - a. Create a **table** named **students** with the given data below.

student_id	name	age	city	marks
1	Amal	19	Kandy	45
2	Nimal	20	Colombo	75
3	Kamal	21	Galle	55
4	Sunil	18	Kandy	45
5	Ruwan	19	Colombo	90
6	Amali	20	Matara	55
7	Saman	22	Colombo	75

2. Add a **new column email** of type VARCHAR(100) as the **first column** in the Students table.
3. Set the **default value** of the email column to "Unknown".
4. Insert a **new student record** with the **same column values** as the student with **student_id = 4**, but **assign student_id = 8 to the new student.**
5. **Update the age** of the student where **student_id = 7 to 23.**

6. Update the **city** to "Gampha" and **marks** to 94 for the student with **student_id = 5**, in a **single query**.
7. Write a query to retrieve all **unique combinations (no duplicates)** of **name and city** from the Students table.
8. Increase the **marks by 5** for all students who have **marks less than 50**.
9. **Find** students whose names **start with the letter 'S'**.
10. **Find** students whose **second character** in the name is **'a'**.
11. Write a query to display students whose **marks are between 50 and 80, and whose city is 'Colombo'**.
12. **Delete** the row where **student_id = 1**.