

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/05/6/A

DEMONSTRATE DATABASE MANAGEMENT SKILLS

NOV/DEC 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
(TVET CDACC)**

PRACTICAL ASSESSMENT

TIME: 2 Hours

CANDIDATES INSTRUCTIONS

- i. In this practical assessment, you are required to perform TWO tasks
- ii. You have **Ten** minutes to read through the instructions and check availability of resources for the practical.
- iii. Each task has specific instructions.
- iv. All tasks carry **50** marks.
- v. The assessor will record your performance at critical points using audio-visual means.

You will be provided with the following resource:

- i. A Computer installed with SQL SERVER software

Task 1

As a Data Officer at a renowned ICT company, you have been assigned to design and implement a comprehensive database schema for managing company's records. Create the necessary tables and perform the following operations:

- a) Open a database program and create database named '*Customers*' and save it in the CDACC EXAM folder. (4 Marks)
- b) Create a table called "Clients" with the following columns: (3 Marks)

Clients

Field name	Data type
ID	Integer (primary key)
Name	Text
Email	Text
Age	Integer
City	Text

- c) Insert the following data into the "Clients" table: (8 Marks)

Clients information

ID	Name	Email	Age	City
ID:1	John Doe	john@example.com	25	New City
ID:2	Jane Smith	jane@example.com	30	Langas
ID:3	David Johnson	david@example.com	28	Rise
ID:4	Rudi Masi	rudi@example.com	30	Mogotio

- d) Apply appropriate primary keys to each table. (2 Marks)
- e) Create a query to retrieve the names of all customers who are aged 25. (3 Marks)