061005T4ICT

ICT TECHNICIAN LEVEL 5

ICT/OS/IT/CR/04/5

MANAGE DATABASE SYSTEM

NOV/DEC 2023

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

PRACTICAL ASSESEMENT

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the task.
2. The candidate has 3 hours to perform all the tasks.

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OBSERVATION CHECKLIST

Candidate's name & Registration No.	
Assessor's name & Reg. code	
Unit of Competency	**MANAGE DATABASE SYSTEM**
Venue of Assessment	
Date of assessment	

(Indicate the marks available and marks obtained respectively. Award marks appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)

Items to be evaluated:	**Marks allocated**	**Marks obtained**	**Comments**
Task 1.			
Designed a database for a college with the name **UNIMIS** *(Award 2 marks or zero*)	**2**		
i) Created Students table - student ID, First Name, Last name and Date of birth. Set student id as the primary key *(Award 2 marks for the table and 1 mark each for every correct field and 1 mark for the primary key. Max of 7 marks or zero*)	**7**		
ii) Created Courses table- Course ID, Course name, Instructor. Set course id as the primary key and instructor id as the foreign key referencing instructor id in the instructor's table. *(Award 2 marks for the table and 1 mark each for every correct field and 1 mark each for the primary and foreign key. Max of 7 marks or zero*)	**7**		
iii) Created Instructors table- Instructor ID, Instructors name. Set instructor ID as the primary key *(Award 2 marks for the table and 1 mark each for every correct field and 1 mark for the primary key. Max of 5marks or zero*)	**5**		
Iv) Created Enrollments table. Enrollment ID, Student ID, Course ID, and Enrollment Date. Set enrollment id as the primary key and student id and course id as foreign keys referencing students and courses tables respectively. *(Award 2 marks for the table and 1 mark each for every correct field*	**8**		

and 1 mark each for the primary and foreign key. Max of 8 marks or zero)			
Ensured proper relationships and constraints. *(Award a max of 4 marks or zero*)	**2**		
Task 2. Enter at least five entries of data into each tables created *(Award 3 marks for each table with 5 entries a max of 12 marks or zero*)	**12**		
Task3. Write an SQL query to retrieve the names of students who are enrolled in the course named Database Systems. *SELECT Students.FirstName, Students.LastName* *FROM Students* *INNER JOIN Enrollments ON Students.StudentID = Enrollments.StudentID* *INNER JOIN Courses ON Enrollments.CourseID = Courses.CourseID* *WHERE Courses.CourseName = 'Database Systems';* (*Award 7 marks for correct query*)	**07**		
TOTAL	**50**		

ASSESMENT OUTCOMES

The candidate was found to be:

Competent ☐ Not yet competent ☐

(Please tick as appropriate)

(The candidate is competent if s/he gets 50% or higher)

Feedback from candidate:

Feedback to candidate:

Candidate's signature:	Date:	
Assessor's signature:	Date:	