061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/08/6

Manage Information System

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

Time: 2 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks:-

i. Task 1: Create a Spreadsheet Management Information System (30 marks)

ii. Task 2: Create a Database Management Information System (21marks)

iii. Task 3: Compare spreadsheet MIS an and Access MIS (4marks)

- 2. You have been provided with the following resources for the practical tasks:
 - i. Computer installed with Microsoft office suite

TASK 1: Create a Spreadsheet Management Information System

a) Open Ms Excel and enter the data in the table below and name it Students Report

	A B C D E F G H I J K L											
1	Litter State Could State Could State Could State Living to Carl State Carlos Ca											
2	1030	Mariam	Jane	F	80	55	78	69	/ V			
3	1438	Milosovic	Kennedy	M	65	45	45	52				
4	1123	Bookie	Lynda	F	45	69	47	48				
5	7841	Kukoch	Brian	M	78	89	51	63				
6	1500	Loruci	Mary	F	42	25	56	44				
7	1534	Lubo	Pius	M	56	36	28	32				
8												

b) Manipulating data

- (i) Set the Averagescore column to present number to *zero* decimal place
- (ii) Using a function, determine the average score per student
- (iii) Using the admission number, sort the data in descending order
- (iv) Using the criteria below, apply a logical expression to determine the student grade using average score

Marks	Grade
0-39	Е
40-59	D
60-69	С
70-79	В
80 And above	A

- (v) Using an expression to determine average scores per unit
- (vi) Create a pie chart representing average score per unit and the respective unit
- (vii) Apply a function to determine the highest and lowest Average score
- c) Manipulating worksheet
 - i. Rename the active worksheet to Score
 - ii. Freeze AdmNo colomn for ease of scrolling through the information.
 - iii. Printing you work

TASK 2: Create a Database Management Information System

- a) Create a database
 - i. Open Ms. Access and create a database named STUDENTS-REPORT
 - ii. Create the Performance table and Students table.
 - iii. Create a form for each of the tables and use it to enter the data into the tables.

Performance Table

Adm Assign-**Project CAT** End Average **Term** No ment score 1030 80 55 78 69 1438 65 45 45 52 1123 45 69 47 48 7841 78 89 51 63 1500 42 25 44 56 32 1534 56 36 28

Students Table

SName	FName	Adm No	Gender
Mariam	Jane	1030	F
Milosovic	Kennedy	1438	M
Bookie	Lynda	1123	F
Kukoch	Brian	7841	M
Loruci	Mary	1500	F
Lubo	Pius	1534	M

- iv. Create an appropriate relationship between the tables
- b) Manipulate data
 - i. Develop an expression that tabulates student average score.
 - ii. Create a query command named PERFORMANCE to retrieve students by gender in ascending order of average score.
 - iii. Create a query named PASS to display students who have scored at least 45 marks in each subject by gender.
 - iv. Generate a report for the queries in task b(ii) and task b(iii) and save appropriately.

TASK 3: Compare spreadsheet MIS and Access MIS

Jacma Training Centre has contracted you to manage examination records for 1000 students.

- a) With respect to Information management systems give two advantages of using:
 - i. Spreadsheet application
 - ii. Database application