

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/7/6

MANAGE DATABASE SYSTEMS

July/August 2024



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

PRACTICAL ASSESSMENT TIME:

TIME: 4 HOURS

INSTRUCTIONS TO THE CANDIDATE

1. In this assessment, you will be required to perform two tasks.
2. You have Ten minutes to read through the instructions and check availability of resources for the practical.
3. You will be allocated 4 hours to complete the practical tasks.
4. Any problem should be reported to the invigilator immediately.

This paper consists of FOUR (4) printed pages.

Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

You are provided with the following resources to perform the tasks:

A working computer installed with

- ✓ MySQL/sql server
- ✓ Any other database management software.

TASK 1: (25 Marks)

- a. A clothing company named "FashionFlix" wants to manage its outfit inventory in a database named "CLOTHE". The company has provided an initial outfit table structure as follows:

Shop	Outfit_name	Outfit_colour	Price	City
A	Levis trouser	Blue	1,400	Nairobi
B	Blazer shirt	Purple	900	Nyeri
C	Savco trouser	Brown	1,200	Kisumu
D	Jeans shirt	Black	800	Kiambu

Table 1

Using any database management software, perform the following tasks:

- i. Create a database named "CLOTHE" for the company above.
- ii. Design an appropriate table named OUTFIT and assign a correct data types to the table field using the information on table 1 above
- iii. Insert the information in Table 1 above to the designed table in ii above
- iv. Update the following values in the OUTFIT table:
 - Shop - E,
 - Outfit_name - Jeans trouser,
 - Outfit_colour – Blue
 - Price – 750
 - City - Kiambu.
- v. Write a query to display outfit names and prices for outfits available in Kiambu or Nyeri

- b. Table below shows an extract of patient details in St. Kwetu medical centre. Use it to answer the questions that follow.

PatNumber	PatName	AppointmentDate
P453	Abraham	16-11-2017
P467	Joel	17-11-2017
P472	Ann	16-11-2017

Table 2: Patient

Inside the database named CLOTHE created in task A, perform the following activities using SQL statements:

- i. Using SQL statement, design the table Patient above inside the database
- ii. Insert the information captured in table 2 above into Patient table.
- iii. Display all patients' number and name;
- iv. Display all patients' details whose appointment date is 17-11-2017;
- v. Display the patient's name and appointment date for a patient whose number is P472.
- vi. Display the patient details for patients with appointment dates falling between 16-11-2017 and 17-11-2017.
- vii. Change patient with PatNumber p472, name to Jane.

TASK 2

(25 Marks)

- a. Create a new database and name it BANK
- b. Create a table with the name BANK_DETAILS inside the database created in (a) above with the following fields and data types.
 - i. Product - string
 - ii. Quantity - numerical
 - iii. Price - real number
 - iv. purchase_cost - decimal
 - v. estimated_sale_price - float
- c. Insert the records below into BANK_DATAILS table.
 - Product: PayCard

- Quantity: 3
 - price: 330
 - Puchase_cost: 200
 - estimated_sale_price: 700
 - Product: PayPoints
 - Quantity: 4
 - price: 200
 - Puchase_cost: 150
 - estimated_sale_price: 300
- d. Display all columns and their data type and size in BANK_DETAILS
- e. Create a simple view that contains product and price from the BANK_DETAILS table.
- f. Update product PayPoints price to 450
- g. Display the product with the highest quantity.

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