

CAT I(20 Marks)

Use MySQL Workbench

- a) Pwani University TVET would like to store payment details their lectures in a database. Using information in the organization pay slip shown below, normalize the database to 3rd normal form.

<u>JANUARY 2024 PAY SLIP</u>		
Employee number.....	Name	Box
Section code.....	Section name.....	Rank.....
Basic Salary	15, 000	
House allowance	12,000	
Travel Allowance	4,000	
Medical allowance	2,000	
PAYE	12,000	
NSSF	2,000	
NHIF	1,000	
Loan	15,000	
Net Salary	38,000	
Head of section name..... Head of Section sign:.....		

- b) Imagine your classmates as employees of the organisation. Create data for each of them.

Write an expression that will extract records that satisfy the following conditions.

- i) List all employees with lname first letter “m”.
 - ii) List all employees who income above 60,000 and above.
 - iii) List all employees with the fname second letter “a”.
 - iv) List all employees who earn between 20,000 and 60,000.
- c) Write query expression to for the above table in question 3 to:
- i) Calculate total earning for each employee.
 - ii) Calculate earning employee.
- d) Demonstrate the following SQL statements.
- i) ALTER TABLE employee ADD (netsalary float);
 - ii) ROLLBACK TO SP2;