

451/2 Computer Studies

1. Fig 1. below indicates contributions made by Marktime company employees to their welfare fund.

Fig 1.

Employee ID	NAME	Address	Town	Department	Receipt No.	Amount Paid.
001	Ouma Derick	6540	Kitale	Computer	M220015	9600
002	Peter N. Biwott	5032	Nairobi	Accounting	M220014	4500
003	Kirui B. Paul	4215	Eldoret	Marketing	M220010	3000
004	John Makokha	7235	Nakuru	Administration	M220016	2500
005	Kimani Joseph	1284	Wajir	Purchasing	M220017	4000
006	J.K. Mbegi	1325	Kisii	Sales	M220011	3500
003	Kirui B. Paul	4215	Eldoret	Marketing	M220018	8275
001	Ouma Derick	6540	Kitale	Computer	M220012	4892
005	Kimani Joseph	1284	Wajir	Purchasing	M220013	5000

- (a) (i). Split the data into **TWO** tables “Employee details table” and “Contributions table” with a one to many relationship. Write on the paper provided the attribute for each table. (10 marks) *TRZ*
- (ii). Create a database named “Welfare” to store the data above. (4 marks) *TRZ*
- (iii). Choose the most appropriate key for each table and write it on the paper provided. (6 marks) *TRZ*
- (iv). Create a relationship between the **TWO** tables. (4 marks) *TRZ*
- (b) (i). Create forms one for each table for inputting data into the tables. (8 marks) *TRZ*
- (ii). Enter the records in Fig 1 above into the tables using the forms. (9 marks) *TRZ*
- (c) Generate a tabular report including the following fields: Employee Id, Name, Department, Receipt No, and Amount Paid. The report should also show the total contributions made. (6 marks) *TRZ*
- (d) Print the Employees Details table, Contributions table and the report. (3 marks) *TRZ*
2. You work with the ministry of finance as an economic planner. The government is in business with other countries and you have been credited with the task of analyzing its income and expenditures. After a few months, you come up with the following data. *TRZ*
- All the figures are in thousands of Kenya shillings except the percentages.**

ANNUAL INCOME AND EXPENSES PROJECTION	
INCOME	
Sales	Starts at 12,000 and grows by 9%
EXPENSES	
Drugs	14% of sales
Roads Maintenance	8% of sales
Machinery	2.5% of sales + 12
Water	Starts at 122 then grows by 4%
Salaries	Starts at 1,000 and grows by 12%
Commissions	2% of sales
Loan repayment	180
Tourism promotion	2.6% of sales
Depreciation	Fixed at 22
Miscellaneous	Starts at 10 and grows at a fixed amount of 9
Total Expenses	
Profit	

1. Use the information provided in the table above to produce a financial projection model for the government for the next six years. Save as Worksheet1. (33 mks) *TRZ*
2. Find the average expenses, sales and profit for six year period. Label the cells appropriately. (3 mks) *TRZ*
3. Format all the projected figures into Kenya shillings (KSHS or KES), a comma style and to two decimal places. Save as Worksheet2. (3 mks) *TRZ*
4. Make a line graph of sales, total expenses and profit for the six year period. Choose an appropriate title. Save as Graph. (8 mks) *TRZ*
5. Print worksheet1, Worksheet2 and Graph. (3 mks) *TRZ*