

EASTERN UNIVERSITY, SRI LANKA

FACULTY OF SCIENCE

FIRST YEAR SECOND SEMESTER EXAMINATION IN SCIENCE - 2016/2017

(MAY/JUNE, 2019)

EN1052 - INTRODUCTION TO COMPUTING- II

(PRACTICAL)

ANSWER ALL QUESTIONS

TIME ALLOWED: 2 HOURS

INSTRUCTIONS:

- Create a folder on the Desktop and name it with your *index number* (e.g. **PS####** or **BS####**). Save all your work files of all the questions into this folder. If the answers were not found in the above said folder, they will not be marked.
- Make sure that all your work files are copied by the examiners before leaving the examination centre.

Q1) Create the following worksheet using MS Excel and save it as '*Q1.xlsx*' in the folder created as per the instructions.

	A	B	C	D	E	F	G
1	Customer Details						
	Customer ID	Sales Amount per month	No. of items per month	Membership start date	Year Joined	Bonus per month	New year super bonus
2							
3	C2017-001	Rs. 12,000.00	20	17/02/2017			
4	C2018-002	Rs. 26,000.00	14	18/03/2018			
5	C2017-003	Rs. 18,000.00	15	14/06/2017			
6	C2019-001	Rs. 33,000.00	50	11/11/2019			
7	C2018-005	Rs. 15,000.00	13	01/02/2018			
8	C2017-006	Rs. 14,000.00	24	08/05/2017			
9							
	Summary of Bonus given to the staff based on year joined						
10							
	Year Joined	Total Bonus in Year					
12							
13	2017						
14	2018						
15	2019						

- Rename the above worksheet as '*Customer Details*'.
- Fill the column *Year Joined* using the suitable function. Year Joined can be derived from the Customer ID or Membership start date.
- Fill the column *Bonus per month* using the following equation.

$$\text{Bonus per month} = \text{Sales Amount per month} * 30\%$$

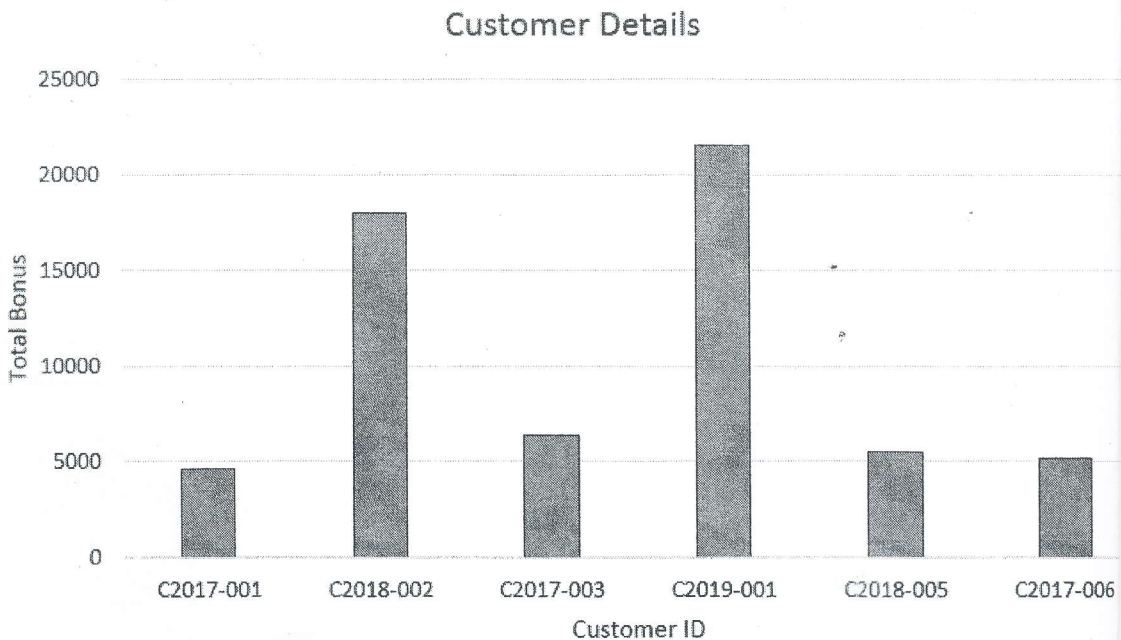
- Fill the column *New Year super bonus* by using the following criteria.

Sales Amount per month	New year super bonus
1-20000	Rs. 1,000.00
20001-50000	(Sales Amount per month * 20%) + Rs. 5000
>50000	(Sales Amount per month * 35%) + Rs. 7500

- Insert a new column *Total Bonus* after the *New Year super bonus* and calculate the *Total Bonus* as follow:

$$\text{Total Bonus} = \text{Bones per month} + \text{New Year super bonus.}$$

- Fill the table *Summary of bonus given to the staff based on joined* using suitable function.
- Draw a column chart for *Customer ID* and *Total Bonus* as follows.



Q2) Create a blank database using MS Access and save it as 'Q2.accdb' in the folder created as per the instructions.

- a) Create the table **Staff** with the following fields and data type. Set 'StaffID' as primary key.

Field Name	Data Type	Field size
StaffID	Short Text	6
FullName	Short Text	30
Age	Number	
YearJoined	Date/Time	
Salary	Currency	
Increment	Currency	
BankAccType	Lookup Wizard (Savings, Current)	10

- b) Enter the following records to **Staff** table.

StaffID	FullName	Age	YearJoined	Salary	Increment	BankAccType
MN 101	A.David	30	2009.09.30	RS 50,000	RS 5,000	Savings
ST 102	H.Jana	35	2000.04.20	RS 40,000	RS 4,000	Current
SC 103	K.Janitha	42	1998.01.26	RS 70,000	RS 7,000	Current
AR 104	M.Mohamed	28	2004.08.17	RS 80,000	RS 8,000	Savings
MN 105	H.Francis	40	1999.07.22	RS 100,000	RS 10,000	Savings
ST 106	F.Raj	28	2001.10.11	RS 48,000	RS 4,800	Current
CO 107	T.Judy	25	2017.05.04	RS 56,000	RS 5,600	Current
MT 108	K.Perera	38	2000.06.12	RS 98,000	RS 9,800	Savings
SC 109	G.Hameed	40	2005.05.05	RS 76,000	RS 7,600	Current
MN 110	H.Rajini	45	1998.08.17	RS 88,000	RS 8,800	Savings

- c) Create Query to get the following results and save as noted.
- Display *StaffID*, *Increment* and *BankAccType* of all staff and save it as Q1.
 - Display *StaffID*, *Salary*, *Increment* and *BankAccType* of all staff and save it as Q2.
 - Display *FullName* of Staff whose name start with "J" and save it as Q3.
 - Display *FullName* and *Salary* of all staff who has joined before 2000.01.01 and save it as Q4.

- v) Display *StaffID* and *BankAccType* who are getting the Salary above RS 70,000 and save it as Q5.

- vi) Display *StaffID* and *BankAccType* of all staff who have a savings account and who are getting the Increment between RS 6,000.00 and RS 9,000.00 and save as Q6.

- d) Create a Report to Display *StaffID*, *Salary* and *BankAccType* from *Staff* table and Save it as **“Staff Details”**