Uganda Martyrs University

Nkozi

University Supplementary/Special Examinations

Faculty of Science

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

Diploma in computer Science Year one

DATA BASE MANAGEMENT II

DATE: 7th August 2015

TIME: 2:00   5:00 pm

DURATION: 3Hrs

INSTRUCTIONS:
Answer all questions in Section A and Section B time:

Section A

Record the correct option for each of the multi choice question. Each question is 2 marks.

1. A software which manages the database is referred to as
   a) Database Management System   b) Database System c)Database d)Database application
2. Which of the following is not an example of a database management system
   a)Oracle b) MySQL c) Php d) Ms Acess.

3. Which statement adds a new column to a database table

   a) insert b) add c) alter d) update

4. Which SQL statement is used to remove a row of data from a database table?

   a) edit b) remove c) delete   d) update

5. The SQL language is case sensitive .

   a) True b) False

Section B

Answer all the questions in this section ,each question is 2 Marks.

The Board of Directors Centenary Bank, has agreed to have a new customer records management system developed to improve the delivery of banking services.

This system will enable branch managers produce timely reports.

The new system will be a database application having a database storing customer data, branch data, account data .

As a database designer you are requested to use MySQL to assist in the development of the database by carefully coming up, executing and recording only the SQL statements (**apart from   the insert statements)** to:

1. Create a database a database with the suitable name.
2. Create the following tables within the database with appropriate column names and data types.
   a. Customers{name, accountno, branchno, phoneno, sex}
   b. Branch {branchno, branchname, city}

c. Account { account no, type, balance}
3. Display the structure of each of the above tables
4. Change the name of the table Branch to Branches.
5. Remove the column 'type' from the account table.
6. Add a new column age to the customers table before phoneno .
7. Change the column phoneno in the customer table to phone.
8. Add an appropriate primary key to each of the above tables.

Insert into the above tables the following data.

Customers

Name	Accountno	Branchno	Age	Phone	Sex
Rebecca	101	B02	40	753	Female
Shamim	102	B01	50	702	Female
Martha	103	B02	35	777	Female
Jacinta	104	B01	60	785	Female
Steven	105	B03	38	780	male
Maria	106	B03	18	780	female

Branch

Branchno	Branch name	City
B01	Jinja Road	Kampala
B02	Main Street	Masaka
B03	Tororo Road	Mbale

Account

Account no	Balance
101	5000
102	6000
103	7000
104	8000
105	9000

9. Display the contents of each table
10. Display names of all customers in the bank together with their account numbers .
11. Display the names of all female customers in the bank together with their phone numbers.
12. Display the names of male customers who are above 40 years of age.
13. Display the number of female customers in the bank.
14. Display the total amount of money in the bank.
15. Change the age of Shamim to 47.
16. Display the names, age and sex of all customers whose names begin with 'm'.
17. Display names of female customers together with names of their branches.
18. Display names of customers whose branch is in Masaka city.
19. Add 500 shillings to all male customers in the bank.