EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
SECOND EXAMINATION IN SCIENCE – 2012/2013
SECOND SEMESTER (October/November, 2015)
CS 253- PRACTICAL WORK ON CS 203
(Proper & Repeat)

Answer all questions   **Time: 2 Hours**

Q1.

a)   Create a database *"FinalExam"* using *MySQL*.

b)   Create the following tables with their attributes with possible data types and

insert the given values.

Employee (Employee_No, Employee_Name, TP_No, Address, DOB)

Works (Employee_No, Department_Name, Position, Salary)

Head (Department_Name, Head_Name)

Employee

Employee_No	Employee_Name	TP_No	Address	DOB
EU001	Mr. S. Seran	0775896325	Colombo	11.05.1982
EU002	Dr. P. Arivu	0754499856	Kandy	14.12.1980
EU003	Miss. T. Kalaimathi	0789635268	Galle	25.08.1975
EU004	Ms. N. Niranjan	0774587523	Kalutura	15.06.1985
EU005	Prof. S. Yogan	0758899654	Matara	13.07.1984
EU006	Mr. A. Kannan	0786654214	Colombo	26.08.1986
EU007	Mr. M. Venan	0778852365	Kandy	13.08.1980

Works

Employee_No	Department_Name	Position	Salary
EU001	Chemistry	Instructor	45,000.00
EU002	Physics	Lecturer	95,000.00
EU003	Botany	Lecturer	89,000.00
EU004	Zoology	Instructor	45,000.00
EU005	Mathematics	Senior Lecturer	150,000.00
EU006	Physics	Lecturer	100,000.00
EU007	Chemistry	Instructor	45,000.00

Head

Department_Name	Head_Name
Physics	Dr. R. Mahesan
Chemistry	Prof. S. Nilum
Botany	Miss. V. Ratha
Mathematics	Dr. N. Bandara
Zoology	Dr. S. Raj

c) Write down *SQL* expressions for each of the following:

i) Retrieve the all details of employees;

ii) List the heads of departments who have the initial S;

iii) Increase the salary of all employees by 15% and display the Employee_No, Position, old salary and scaled salary;

iv) List the names of employees who are from Kalutura, Matara or Kandy;

v) Get the number of employees who are from Kandy, Colombo, Galle or Matara;

vi) Retrieve names of all employees whose salary is between 80,000.00 and 100,000.00;

vii) List the names of employees who were born on or before 11.05.1982;

viii) Retrieve the name and address of all employees who work at the Physics department;

ix) List the department names, which have no employees;

x) Get the number of employees;

xi) List the names of employees whose name begin with a letter in the first ten letters of the alphabet;

xii) Change the address of employee number EU003 to Matara;

xiii) Add the department name: Computer Science and head name Dr. T. Kesavan to the table Head;

xiv) Delete all work information.