



EASTERN UNIVERSITY, SRI LANKA

DEPARTMENT OF MATHEMATICS

SECOND YEAR EXAMINATION IN SCIENCE –2009/2010

SECOND SEMESTER (April /June, 2012)

CS 253 – PRACTICAL WORK ON CS 203

(PROPER & REPEAT)

Answer all questions

Time allowed: 02 hours

Q1.

- a) Create a Database “STUDENT INFO” using MySQL.
b) Consider the following relations and Create Tables. **Primary Keys** are underlined.

STUDENTS (Student No, Course No, Name, Address, Period, Sex, DOB)

RESULTS (Student No, Subject No, Year Exam, Marks)

SUBJECTS (Subject No, Subject Name, Dept Name)

CONSISTS (Course No, Subject No)

DEPARTMENT (Dept Name, Head of Dept)

COURSE (Course No, Title, Duration)

- c) Insert the records as shown below in tables.

STUDENTS

Student No	Course No	Name	Address	Period	Sex	DOB
S1000	C1	K. Ananth	Kandy	1	M	2/12/1975
S1001	C2	A. Joseph	Kandy	2	F	3/12/1975
S1002	C2	S. Herath	Colombo	1	M	6/24/1975
S1003	C1	S. Anita	Jaffna	1	M	2/11/1976
S1004	C3	P. Elengo	Batticaloa	3	F	5/13/1975
S1005	C3	R. Ameer	Jaffna	2	F	5/23/1976
S1006	C1	M. Dilshan	Ampara	1	M	9/24/1975
S1007	C1	P. Joseph	Batticaloa	2	F	5/14/1976
S1008	C3	N. Edward	Jaffna	2	F	8/27/1976
S1009	C1	S. Ajith	Ampara	1	M	8/18/1973
S10010	C2	R. Sasi	Batticaloa	3	F	7/12/1975

RESULTS

Student No	Subject No	Year Exam	Marks
S1000	SU2203	1	75
S1003	SU2201	1	59
S1003	SU2203	1	45
S1004	SU2205	2	65
S1006	SU2202	1	65
S1007	SU2201	2	78
S1009	SU2201	1	48
S1009	SU2204	1	85

CONSISTS

Course No	Subject No
C1	SU2201
C1	SU2202
C1	SU2203
C1	SU2204
C1	SU2205
C2	SU2206
C2	SU2207
C2	SU2208
C2	SU2209
C3	SU2205

SUBJECTS

Subject No	Subject Name	Dept Name
SU2201	Cost Accounting	Commerce
SU2202	Company Law	Commerce
SU2203	Computer Science	Computer Unit
SU2204	Business Statistics	Commerce
SU2205	Macro Economics	Commerce

DEPARTMENT

Dept Name	Head
Commerce	Mr. S. Moorman
Computer Unit	Dr. S. Collins
Economics	Mr. S. Brown
Mathematics	Dr. K. Buster
Statistics	Dr. Miss. N. Jones

COURSE

Course No	Title	Duration
C1	Boom	4
C2	Arts	4
C3	Law	3
C4	Bsc	4

- d) Write SQL command for the following queries (state clearly any assumption you would like to make):
- retrieve the names of all students who are in the 2nd year;
 - retrieve the **Student No** for students who are in the 1st year and were born on 24/6/75;
 - list the **Course No** and the names of all the students with their Course No in reverse alphabetical order and names within each course in alphabetical order;
 - list the heads of the department who have "n" as the last letter in their name;
 - list the heads of department who have the initial 'S';
 - list the names of students who studied the subject 'SU2205';
 - list the student numbers, subject numbers, year Exam for which the students have obtained a mark between 50 and 60;
 - list the subject numbers for subjects which are offered by Department of Commerce or which are included in C2;
 - list the **Student No** and **Subject No** for which the student had obtained an average of less than 60; and
 - retrieve the names of students who study all subjects.