Faculty of Engineering, University of Jaffna
Department of Computer Engineering
EC5070 – Database Systems
Lab Instruction Sheet 02

Date: 12 May 2021   **Time: 13.00 to13.45**

Intended Learning Outcome:

After today's class you will be able to

- Apply the fundamental concepts in data modeling with specific reference to the ER models

Instructions:

- Any plagiarized work will be given 0 marks.
- Submit your answers as a zip file named LAB02_20YYEXXX (20YYEXXX – Your Registration Number) on/before the given deadline via teams.

1. You are requested to draw an ER diagram manually with the following assumptions. After that you need to take a photo and submit before the given deadline.

   - Each vehicle uniquely defined by vehicle number, engine chassis number, types, number of wheels, production country, color, price and an associated owner.
   - Each owner has a NIC number, first name, last name, phone, and profession.
   - An owner can have one or more vehicles.
   - Agents represent owners in the sale of a vehicle. An agent can list many vehicles, but only one agent can list a vehicle.
   - An agent has a unique agent number, name, phone number and an associated office.
   - When an owner agrees to list a vehicle with an agent, a commission and a selling price are determined.
   - An office has office identifier, phone number, the manager name, address and an optional agent number.
   - Many agents can work at one office.
   - A buyer entity type has ID number, first name, last name, phone, preferences for the vehicle type, and a price range.
   - An agent can work with many buyers, but a buyer works with only one agent.