



Database Management Systems II

Lab Exercise – 04

Year 2 – Semester 2

Objective: Learning DDL's and T-SQL

Refer to the relational schemas for the scenario given below which was completed in the Lab Exercise 02 and **create the schemas using T-SQL**.

A non-profit organization depends on a number of different types of persons for its successful operation. The organization is interested in the following attributes for all these persons: NIC number, Name, Address, Telephone numbers, Date of birth and also age. Three types of the persons are of great interest: Employees, Volunteers and Donors. Employees have a Date Hired attribute and Volunteers have a Skill Attribute. All family members of the employees will be provided with a medical allowance within the employment period. The organization keeps record of the items it receives by its Donors. A donor donates one or more items, and an item may have no donors, or, one or more donors. The attributes of the item are Name, Quantity and Type. If the donated item comes with a warranty, the warranty details should be maintained.

- Write your script and save your answer as charity.sql file.
- Use the appropriate data types for columns of tables
- The following constraints exist for the schemas. Use appropriate constraint mechanisms (such as **Primary Key**, **Foreign Key**, **Check Constraints**, etc.) to enforce the rules stated.

Charity Schema:

The name attribute of Item, Person *cannot contain a null value*

NIC of the person is a 9 digit number and then ends with the character V/v.

The default value for *date* descriptive attribute of the “donates” relationship should be the *system date*.

Ensure that the *item code* of the item should start with *letters IC followed by 4 digit number*.

Ensure that the “Donated” or the “General” are the only allowed values in type attribute in *Items* table.