CS 579 DATABASE MANAGEMENT

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26/10/2021

TEAM PROJECT PART 2

**CREATE TABLE CUSTOMER**

(Name VARCHAR(15) NOT NULL,

Phone CHAR(9) NOT NULL,

Address VARCHAR(30),

OrNo INT NOT NULL,

**PRIMARY KEY** (Name),

**UNIQUE**(Phone)

**FOREIGN KEY** (OrNo) **REFERENCE ORDER** (OrderNO),

**CREATE TABLE ORDER**

(OrderNo INT NOT NULL,

Date DATE

Amount DECIMAL(10,2) NOT NULL,

**PRIMARY KEY**(OrderNo),

**CREATE TABLE EMPLOYEE**

(EmpNo INT NOT NULL,

Name VARCHAR(15) NOT NULL, Address VARCHAR(30)

BirthDate DATE

Salary DECIMAL(10,2) NOT NULL,

Classification VARCHAR(15)

**PRIMARY KEY**(EmpNo),

**CREATE TABLE PAPER**

(TypeNo INT NOT NULL,

Size INT

Weight DECIMAL(5,1)

UnitPrice DECIMAL(3,1) NOT NULL,

**PRIMARY KEY**(TypeNo)

**CREATE TABLE BRANCH**

(Name VARCHAR(15)

CusPhone CHAR(9) NOT NULL,

Brno CHAR(10) NOT NULL,

Phone CHAR(9)

Address VARCHAR(30)

Order\_No INT NOT NULL,

Suborder\_No INT NOT NULL,

**PRIMARY KEY**(Brno),

**FOREIGN KEY** (CusPhone) **REFERENCE** CUSTOMER (Phone),

**FOREIGN KEY** (Order\_No) **REFERENCE** ORDER (OrderNo),

**FOREIGN KEY** (Suborder\_No) **REFERENCE** SUBORDER (SuborderNo)

**CREATE TABLE SUBORDER**

(OrderNo INT NOT NULL,

SuborderNo INT NOT NULL,

RqshipDate DATE

ActShipDate DATE

**PRIMARY KEY**( SuborderNo)

**FOREIGN KEY** (OrderNo) **REFERENCE** ORDER (OrderNo)

**CREATE TABLE ORDER\_ITEM**

(TypeNo INT NOT NULL,

OrderNo INT NOT NULL,

SuborderNo INT

Quantity CHAR(9)

**PRIMARY KEY**( TypeNo, OrderNo, SuborderNo)

**FOREIGN KEY** (Order\_No) **REFERENCE** ORDER (OrderNo),

**FOREIGN KEY** (Suborder\_No) **REFERENCE** SUBORDER (SuborderNo),

**FOREIGN KEY** (TypeNo) **REFERENCE** PAPER (TypeNo)

**CREATE TABLE HANDLED\_BY**

(EmpNo INT NOT NULL,

OrderNo INT NOT NULL,

**PRIMARY KEY**( EmoNo, OrderNo),

**FOREIGN KEY** (OrderNo) **REFERENCE** ORDER (OrderNo),

**FOREIGN KEY** (EmpNo) **REFERENCE** EMPLOYEE( EmpNo)

Question 2

List all constraints which were specified in the ER model but not reflected in the relational database schema, if any.

CONSTRAINTS( HAS\_BRANCH),(RECEIVES),(PLACES),(CONSISTE\_OF)