Assignment 3

Student:

Sara Coku

Diego Zablah

Mohamed Shaaban

Teacher:

Peter Baumann

Course:

Course title

Mapping ISA to relation:

1. Alt 1: separate relation for every entity set
   * 1. 4 relations: User, Premium user, Normal user, Guest
        + Every user recorded in User
        + Must delete Premium User tuple if referenced User is deleted
        + Every inquiry involving user easy, the ones involving only Premium user requires a joint to some attributes

Alt 2: relation only entity sets with instances

1. 3 relations: Premium user, Normal User, Guest

* Premium user: username, password, first name, last name, address, city, zip code
* Every user must be in one of these three subclasses

Alt 3: one relation for all

i. 1 relation: User

1. Alt 1: separate relation for every entity set
   * 1. 4 relations: Product, PC, gaming, normal
        + Every user recorded in Product
        + Must delete PC tuple if referenced Product is deleted
        + Every inquiry involving product easy, the ones involving only PC requires a joint to some attributes

Alt 2: relation only entity sets with instances

1. 3 relations: PC, gaming, normal
   * PC: Acer Swift 5, MacBook pro, …
   * Every product must be in one of these three subclasses

Alt 3: one relation for all

1. 1 relation: Product
2. Alt 1: separate relation for every entity set
   * 1. 4 relations: Payment, Paypal, transfer, card
        + Every user recorded in Payment
        + Must delete Paypal tuple if referenced Payment is deleted
        + Every inquiry involving Payment easy, the ones involving only Paypal requires a joint to some attributes

Alt 2: relation only entity sets with instances

1. 3 relations: Paypal, transfer, card
   * Paypal: Email, Password
   * Every payment must be in one of these three subclasses

Alt 3: one relation for all

1. 1 relation: Payment