University of the Philippines Los Baños
College of Arts and Sciences
Institute of Computer Science
CMSC 127 AY 2014-2015 First Semester
Practice Exercise on Normalization Answer Key

1 NF:
movie(<u>movieID</u>, movieName) //ticketType is assumed to be many
movieTicketType(<u>movieID</u>, <u>ticketType</u>) //many ticket types for a movie
rewards(<u>rewardsID</u>, guestType, pointEarned, totalPoints)
movieScreening(<u>movieID</u>, <u>ticketDate</u>) //movies are shown on multiple dates
guest(<u>guestType</u>, <u>rewardsID</u>, <u>ticketDate</u>, <u>movieID</u>, noOfTickets, ticketType, pricePerTicket, totalAmount)

2 NF:
movie(<u>movieID</u>, movieName) //ticketType is assumed to be many
movieTicketType(<u>movieID</u>, <u>ticketType</u>) //many ticket types for a movie
rewards(<u>rewardsID</u>, guestType, pointEarned, totalPoints)
movieScreening(<u>movieID</u>, <u>ticketDate</u>) //movies are shown on multiple dates
guest(<u>guestType</u>, <u>rewardsID</u>, <u>ticketDate</u>, <u>movieID</u>, noOfTickets, ticketType, pricePerTicket, totalAmount)

3 NF:
movie(<u>movieID</u>, movieName)
movieTicketType(<u>movieID</u>, <u>ticketType</u>)
rewards(<u>rewardsID</u>, guestType, pointEarned, totalPoints)
movieScreening(<u>movieID</u>, <u>ticketDate</u>)
guest(<u>guestType</u>, <u>rewardsID</u>, <u>ticketDate</u>, <u>movieID</u>, noOfTickets, ticketType)
guestTicketType(<u>ticketType</u>, pricePerTicket)
guestTicketPrice(<u>noOfTickets</u>, <u>pricePerTicket</u>, totalAmount)