**UMBC**

**IS420 Database Application Development**

Fall 2020

Group Project

**Hotel Management System**

This is the demo scenario to be shown during the demo. Create a PL/SQL script that contains calls to create the result of the operations listed below. The script should have the calls for Member 1 – Member 5 in the order provided below. Also make sure to use DBMS\_OUTPUT.put\_line to show what is happening (e.g. for 1a, print “A new hotel H1 was created in NY”). Similarly for the remaining operations.

The script should run from the beginning to the end without interruptions. Do not type anything, other than the calls and the parameters. Remember not to hard code the keys (especially the IDs) in the calls.

Read the “Ask the Professor” forum, there are questions and answers to clarify what is needed. Feel free to ask questions in that forum too, it will save you time.

Member 1

1. Add a hotel:
   1. Add a new hotel called H1 in New York, NY
   2. Add a new hotel called H2 in Baltimore, MD
   3. Add a new hotel called H3 in San Francisco, CA
   4. Add a new hotel called H4 in Annapolis, MD
   5. Add a new hotel called H5 in Baltimore, MD
2. Find a hotel:
   1. Find the hotel ID for the hotel H3
   2. Find the hotel ID for the hotel H2
3. Add a room:
   1. Add 5 double rooms to H2
   2. Add 2 suites to H2
   3. Add 10 double rooms to H1
   4. Add 1 conference hall to H4
   5. Add 1 conference hall to H5
4. Sell H1
5. Report hotels in the state of MD

Member 2

1. Reservations:
   1. Make a reservation at hotel H2 by John Smith from Aug 1 – Aug 10 for a suite
   2. Make any reservation at hotel H1 (already sold – should print out appropriate msg)
   3. Make a reservation by Arnold Patterson for conference hall at H4 from Jan 1 – Jan 5
   4. Make a reservation by Arnold Patterson for double room at H4 from Jan 1 – Jan 5
   5. Find the reservation of Arnold Patterson
   6. Make a reservation by Mary Wise for single hall at H4 from Jan 10 – Jan 15
   7. Make a reservation by Mary Wise for a double at H4 from Jan 1 – Jan 5
   8. Cancel reservation of Arnold Patterson for double room
   9. Cancel reservation of John Smith
   10. Show cancelations

Member 3

1. Change Reservations
   1. Change Mary Wise reservation to Feb 1 – Feb 5
   2. Change Mary Wise reservation room type to single room (Feb 1 – Feb 5)
   3. Show reservations for H4
   4. Show all reservations that Mary Wise made
   5. Provide Total Monthly income report

Member 4

1. Add services:
   1. For reservation in item 6f add restaurant services for each day
   2. For reservation in item 6g add restaurant services for each day
   3. For reservation in item 6g add 1 pay-per-view movie for the first day
   4. For reservation in item 6g add laundry service for one day (of your choice)
   5. Show Reservation Services Report for Mary Wise’s reservation on Jan 1 – 5
   6. Show report for restaurant services
   7. Show total services income report for hotel H4

Member 5

1. More reports
   1. Show available rooms by type in hotel H4
   2. Show the checkout/invoice list of Mary Wise (she has multiple reservations)
   3. Show Income for all hotels in MD