İstanbul Bilgi University

Department of Computer Engineering

CMPE351
DATABASE SYSTEMS I

Quiz 2 (afternoon)

Make sure that you explain in detail all your steps - thoughts. You may get extra points for an appropriate observation, you may lose some marks due to an obscure solution. **PLEASE, do write your Name, Surname and student's number on the top of the answer sheets.**

1. Considering the attached snapshot, use relational algebra formal language to answer the following queries. At every step, you MUST state the "degree" (1/3 of the total points of the question) and the "cardinality" (1/3 of the points) of your partial or final result:

   (a) This exam is for students with the students' number ending by 0, 1, 2, 3, 4:
      (i) (40 points) Retrive the "C_name" of all customers who made a reservation
      (ii) (60 points) Retrieve the "Type" of the rooms booked by active reservations, i.e. reservations which are in the active state

   (a) This exam is for students with the students' number ending by 5, 6, 7, 8, 9:
      (i) (40 points) Retrieve the list of rooms, "Room_id", booked by reservations, which are in the active state
      (ii) (60 points) Retrieve the "Bdate" of all customers with an active reservation, i.e. reservations which are in the active state