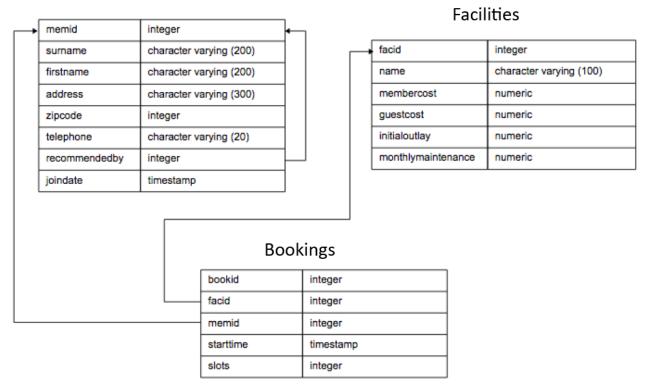
CS 315 Modern Database Management Midterm Exam SUMMER I

Northeastern Illinois University-

Members



- 1-Write a relational algebra query that produces a list of *facid* and *name* of *facilities* that charge a monthly fee of \$100 for their members. (**5 points**)
- 2-Write a relational algebra query that produces a list of name, *membercost*, *guestcost* of *facilities* that have a membership cost that is less than half of the *guestcost*. (5 points)
- 3-Write a SQL query that produces a list of *facid* and *name* of *facilities* that charge a *membercost* of \$100 for their members. (4 points)
- 4-Write a SQL query that produces a list of name, *membercost*, *guestcost* of *facilities* that have a membership cost that is less than half of the *guestcost*. (4 points)
- 5-Write a SQL query that produces an ordered list of the *surnames* in the *members* table. The list should **NOT** contain duplicates. (**4 points**)
- 6-Write a SQL query that produces a list of *firstname*, *surname* and *telephone* of members that have a *firstname* starts with letter 'z' and end with letter 'k'. **4 points**)
- 7-Write a SQL query that produces a list of members that do not live in *zipcodes* 60621, 60625, 60623, 60654. Do **NOT** use OR operator. (**4 points**)

- 8-Write SQL a query that finds how many members have a telephone number that starts with 312. (5 points)
- 9-Write a SQL query that produces a list of facilities (all columns) that have a *membercost* less than the average of all facilities. (**5 points**)
- 10-Write a SQL query that finds the facility that has the minimum number of members. (5 points)
- 11-Write a SQL query that produces a list of monthly maintenance costs for each facility that has monthly maintenance cost between \$50 and \$100. (5 points)
- 12-Write a SQL query that returns the membership costs of Gerald Butters. (10 points)
- 13-Write a SQL query that produces a list of *firstname*, *surname* and *telephone* numbers of members that live in one of the *zipcodes* 60612, 60624 and booked a table tennis room. (**10 points**)
- 14-Write a SQL query that produces a list of facid, name of facilities and the total number of slots booked for each tennis court facility. (10 points)
- 15- Write a SQL query that changes *guestcosts* of all tennis court facilities to \$10. (6 points)
- 16- Write a SQL query that deletes all members that are recommended by some other member. (7 points)
- 17- Write a SQL query that creates a record of a new facility with the following values: facid = 0, name ='Softball field', membercost=40, guestcost=55, initiallayout=15000, monthlymaintenance=300.(7 points)