

Due:

Monday 15 March, 2022 by 15:30

Total Points: 70**Deliverables:**

The following should be completed and submitted by the due date and time specified above. Submissions received after the deadline will be subject to the late policy described in the syllabus. Submissions should be done using the assignment in MS Teams.

Acceptable formats for the submissions include:

- Printed or neatly handwritten document
- Microsoft Word, text, or PDF document
- Other similar methods

Database Structural Information:

The following tables form part of a Hotel database held in an RDBMS:

Hotel (hotelNo, hotelName, city)

Room (roomNo, hotelNo, type, price)

Booking (hotelNo, guestNo, dateFrom, dateTo, roomNo)

Guest (guestNo, guestName, guestAddress)

where **Hotel** contains hotel details and **hotelNo** is the primary key.

Room contains room details for each hotel and (**roomNo, hotelNo**) forms the primary key.

Booking contains details of bookings and (**hotelNo, guestNo, dateFrom**) forms the primary key.

Guest contains guest details and **guestNo** is the primary key.

Problem Set (5 points each unless otherwise noted):

Write the SQL statements to perform the following tasks:

1. List all hotel details.
2. List all guest names.
3. List the room types with a price at least 300.
4. List all rooms of type "Family Room" that are in cities starting with the letter "A".
5. List all guests who have stayed in the hotel with name "Akdeniz Hotel".
6. Remove all rooms which last had a booking that ended over two (2) years ago. (10 points)
7. List all guest names and addresses and the total number of bookings for each guest.
8. List all guest names along with the total price they have paid for all their bookings in our system.
9. List the hotels and rooms that were not reserved on "1-Mar-2022".
10. Give a list of the guest names and hotel names they have stayed in. Do not display any room or date information.
11. How many unique room types are there?
12. For each guest who has spent more than 10,000 in rooms in the past year, list their name and their address and the hotel names and cities they have stayed in. (10 points)