

## **DATABASE SYSTEMS and WEB**

### **Tutorial 9, 10**

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**Q1.** Consider the following relations

**Hotel(hotelNo, hotelName, city)**

**Room(roomNo, hotelNo, type, price)**

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

**Guest (guestNo, guestName, guestAddress)**

Where the relation Hotel contains hotel details, the relation Room contains room details, the relation Booking contains details of the bookings and the relation Guest contains guest details.

Write a MYSQL procedure which:

- 1) For a given guest name, list the hotel in which the guest is booked.
- 2) For a given guest name, list the hotel in which the guest is booked, If guest is not present, insert his data.
- 3) For a given guest name, find the hotel in which the guest is booked and for how much time he will stay.
- 4) Delete all the bookings for hotels in “London”.
- 5) Do booking of all willing guests for both the Grand Hotel in Jaipur and the Radisson Hotel in Delhi. Number of Guest should not exceed 100. check If its 101 entry don't allow.
- 6) Do booking of all willing guests for both the Royal Hotel in Gurgaon and in Gwalior. Number of guests allowed in Royal Hotel-Gurgaon should not exceed 48 and in Royal Hotel - Gwalior should not exceed 25.
- 7) Before doing all the bookings of hotels in “Gurgaon”, Display price as extra Rs 2000 for luxury services given.
- 8) Before Booking for Guests from Fringer apartments Ltd, check if there are booking for them in other hotels, after booking, charge them Rs 2500 for dual booking.
- 9) Insert hotel number(s) of hotels that have single or twin rooms in the price range of Rs. 5000 and Rs. 10000 – in decreasing order of hotel number. Before Insert check the price. If price lower raise exception that this room cannot be booked.

- 10) Create a procedure called select\_guest that selects the guest names, address for a user provided guest no from guest relation into local variables. Output the data to your console.
- 11) Write a PL/SQL procedure 'guest\_onsamedate' taking 'date from' and 'date to' as parameter and displaying on console the guestno from table booking whose date from and date to is *equal to* the value passed as parameter.

## Question 2.

**Emp (Empid, Ename, Age, Salary, Deptno)**

**Dept( Deptno, Dbame)**

- 1) Write a cursor to increase the salary of employees by 50% and impose a constraint that no employee should draw a salary more than 200000.
- 2) Write a cursor to increase the salary of employees by 50% and impose a constraint that no employee should draw a salary more than his manager's salary.
- 3) Write a cursor to list out all employees of department 'sales'.
- 4) To create a trigger for the Emp table which makes the entry in Ename column in Uppercase.
- 5) Write a trigger total-salary to maintain a derived column totalsal that stores total salary of all members in a department.