

NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCE
Database Systems Lab (CL-203)

Mid Term Exam

Date: Oct 10, 2017

Section: _

Time Allowed: 95 Minutes
Max. Points: 50

STUDENT ID: _____

Schema

Hospital(h_id, h_name, location)

Patient(p_num, p_name, age, h_id)

Doctor(d_id, d_name, h_id)

Operation_Room(o_name, time, room, d_id)

Surgery_Details(p_num, o_name)

Questions

Q1 - Get the name of Doctors operating in room 'R-11'.

Select * from doctor d, operation room r where d.d-id = r.d-id
and r.room = 'R-11';

Q2 - Get the number of patients admitted in the AKU.

Select count(*) from hospital h, patient p where h.h-id =
p.h-id and h.h-name = 'AKU';

~~not working~~ Q3 - Names of the Doctors who operated in more than 1 operation room.

Select count(*) from doctor d, operation room r group by
(r.d-id) having count(*) > 1

Q4 - Get the hospital names and the number of patients admitted in that hospital, sorted in decreasing order of the number of patients.

Q5 - Get the names of those patients who are not admitted in AKU.

Select * from patient p, hospital h where ~~not in~~ ^{P.h-id} not in
where p.h-id = h.h-id and h.h-^{name} != 'AKU';

Q6 - Get the names of those patients who are admitted in AKU.

Select * from patient p, hospital h, where p.h-id =
where ~~p.h-id~~ h.h-name = 'AKU';

Q7- Get the patient numbers and names of patients who have only operated by a Doctor named 'Muhammad Rafi'.

Q8- Get the name of Doctors who are not operating in room 'R-109'.

Q9- Get the patient name who have been operated in most number of surgeries.

PL/SQL

1. An admission charge for The Little Rep Theater varies according to the age of the person. Develop a solution to print the ticket charge given the age of the person. The charges are as follows:

- a. Over 55: PKR 10.00
- b. 21-54: PKR 15.00
- c. 13-20: PKR 10.00
- d. 3-12: PKR 5.00
- e. Under 3: Free

declare
declare

A1 int := 10;
A2 int := 15;
A3 int := 5;

2. A hotel has a pricing policy as follows:

- a. 2 people: \$85
- b. 3 people: \$90
- c. 4 people: \$95
- d. Additional people: \$6 per person

If the customer is staying on company business, there is a 20% discount. If the customer is over 60 years of age, there is a 15% discount. A customer does not receive both discounts. Given the above data, print the cost of the room.

3. A health insurance company insures its employees in the following cases:

- If the employee is married.
- If the employee is unmarried, male & above 30 years of age.
- If the employee is unmarried, female & above 25 years of age.

In all other cases the employee is not insured. If the marital status, gender and age of the employee are the inputs, write a program to determine whether the employee is to be insured or not.