COMP.3090 Database I Project

DESIGNING MICROSOFT ACCESS PROJECT
Defining and Querying Database in SQL

Due: 11:59PM, Thursday December 6th, 2018

Project Description:

In this project, you will work on a Hospital Database which contains information of doctors, patients, tests. There are many doctors in the hospital; weâ™d like to record their identification (ID), name, gender, age, phone number, address, years of experience and specialization. We also have patients, who have identifier (ID), name, gender, age, phone number, address, and disease information. Clearly, each doctor has a number of patients, and vice versa. Doctors perform tests over certain patients. A tests table stores information of patient on whom test is performed, the doctor who performed the test, and details of the test like the date of the test, its result (positive or negative) and the instrument used for the test. Download the database "Hostpital.accdb" from google group. Write SQL queries using MS Access and execute them.

Database tables:

DOCTORS (D_ID, D_NAME, D_GENDER, D_AGE, D_SPECIALIZATION, D_YEARS_OF_EXPERIENCE, D_CONTACT, D_STREET, D_CITY) PATIENTS (P_ID, P_NAME, P_GENDER, P_AGE, P_DISEASE, P_CONTACT, P_STREET, P_CITY) P_ASSIGNMENT (P_ID, D_ID) TESTS (T_ID, T_NAME, P_ID, D_ID, I_ID, T_DATE, T_RESULT)

Queries

1. List all doctors' name.
2. Find all the test results of cancer patients.(Note: There may be different type of cancer) (Your result should display patient's name, disease and result.)
3. List all the doctors who are consulted by a patient names "RICHARD MILLER". (Your result should display doctor's name.)
4. Find the most experienced doctor in the hospital. (Your result should display both doctor's name and the years of his/her experience.)
5. List all the patients who live in the same street and same city as of doctor "JAMES SMITH". (Your result should display patients' name.)
6. Find the patients who had assignment at least two doctors. (Your result should display patient's name.)
7. Find the patient who has not take any tests yet. (Your result should display patient's name.)
8. List the doctors and the number of patients they have assigned in the descending order. (Your result should display doctor's name and the number of their patients.)
9. Increment years of experience of all the doctors by 1.
10. Delete all the tests whose result is negative.

Materials to Turn In

Submit both MS Access file that contains the original database and the queries and MS Word document that contains the queries and their results by 11:59PM, 6th December, 2018.

  -- On *cs.uml.edu*, use the submit command: *submit yli2 3090 Yourname_Hospital.accdb Yourname_Hospital.docx* (one submission per group)

Things to remember

Your project must run correctly in the department's computer lab to receive credits.

All queries must be written using SQL interface in Microsoft access.

All queries should be implemented in the given order.

Late submissions will be taken off 50% and will not be accepted after 48 hours of original deadline.

Queries will be graded on correctness. Few points may be deducted for bad style like use of complicated queries which are difficult to understand.

Plagiarism is prohibited. If found, all the students involved will get zero credit for the project.