



Practical 03 – Exercise 03

Data Manipulation (10 marks)

Important Notes:

1. Bring the following to the practical session:
 - a. The Practical Textbook and/or the lecture notes for the exercise class in which the exercise was explained
2. SQL scripts are what is marked
 - a. Scripts which run and perform what they are supposed to do get full marks
 - b. Scripts which do not run will be marked on their own merit
3. Please refer to Hotek Chapter 10, as well as the class notes (04SQLCh08.pdf) on ClickUP for examples on generic structures as well as specific code.

CONTEXT:

The practical exercise is based on the Daspoort Clinic database. Run the **03Prac – Daspoort_Clinic.sql** script to create and populate the database.

Queries – Daspoort Clinic

1. In response to the doctor's enquiry, the receptionist needs a list of patients who are male. Write an SQL query that displays all the patients that are male. Show the patient name, surname, citizenship and gender. Test the query and save it as 03Prac - Query1.sql. [1]
2. The accounts department wants a list of all consultations that took place in the year 2013. Write an SQL query using the BETWEEN clause to display all the consultations from the consultation table that took place in 2013. Display the consultation number, consultation history BMI, consultation history urine test, con consult date and patient number. Test the query and save it as 03Prac – Query2.sql. [1]
3. The doctor wants a list of all patients that have consulted with a weight that is less than 65. Write an SQL query that will return all consultations that have a weight less than 65. Test the query and save it as 03Prac – Query3.sql. [1]
4. The receptionist wants a list of all medical supplies where the name contains a “u” and a “p”. Write an SQL query that will retrieve a list of all the medical supply records where the name contains "u" and "p". Test the query and save it as 03Prac – Query4.sql. [1]
5. In order to complete the South African Patients Survey, the receptionist needs a list of patients who are South African but not Dutch. Write an SQL query that will display the patient number, name, surname, citizenship, gender and date of birth of all the patients who are South African but not Dutch. Test the query and save it as 03Prac – Query5.sql [2]
6. In response to the doctors enquiry, the receptionist needs a list of all medical history records where the weight is **at most** 65 and the BMI is **greater than** 90. Write an SQL query that will display the history ID, medical history weight, height, BMI and patient number of all the medical history records meeting the above condition. Test the query and save it as 03Prac – Query6.sql [2]
7. The purchasing division wants a list of all the medical supplies in which the quantity available and the actual quantity are the same and have a medical supply unit assigned to it. Write an SQL query that will show the medical supply ID, name, quantity, quantity available and supply unit for the required medical supplies. Test the query and save it as 03Prac – Query7.sql. [2]

TOTAL [10]