



Practical 04 – Exercise 04

Data Manipulation (8 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 8, as well as the class notes (05SQLCh08.pdf) on ClickUP for examples on generic structures as well as specific code.

CONTEXT:

The practical example is based on the Gotcha System database. Run the **GotchaSystems.sql** script to create and populate the database.

Queries – GotchaSystems

1. Write a query that uses the INNER JOIN to find all the employees who have the title of 'Mr'. Display Employee name, employee surname, employee status and title ID. **[2]**
 2. Write a query that uses the LEFT OUTER JOIN to display the stock write off date, description, reason, quantity as well as the stock item name and item quantity. (Do not display the Stock_Item_ID). **[2]**
 3. Write a query that uses the RIGHT OUTER JOIN to include all the medical supplies that were not issued to a user. Display medical supply name, user ID and issue date. **[2]**
 4. Write a query that uses the FULL OUTER JOIN to display the Name, Surname, Gender And Citizenship from the patient table, including the Consultation Number of all the patients that DO NOT have a consultation. **[2]**
- TOTAL [8]**