

NAME:

GROUP:



INSTITUTE OF TECHNOLOGY TRALEE

Computing – Stage 2

Alternative Assessment 01

Databases Concepts

Date: December 2009

Instructions to Candidates:

Answer all questions

1. Given the following relations:

Books(BookId, Title, Author, Category, Status)

Members(MemberId, Surname, Forename, Street, Town, County, BooksOut)

Loans(LoanId, BookId, MemberId, DateOut, DateDue)

Returns(LoanId, BookId, MemberId, DateOut, DateDue, DateReturned, FineAmt)

Where DateOut / DateDue is of the format dd/mm/yyyy.

A member may have a maximum of 5 books on loan at any time.

Give the SQL statements to do the following

1. List all books in alphabetical order of title.
2. List all Members in alphabetical order of Surname and then forename.
3. List all members who have the maximum number of books on loan.
4. Count the number of books in each category.
5. Find the average fine amount.
6. List all members whose surname begins with the string 'Fitz' eg. Fitzgerald, Fitzharris, etc.
7. List all books that have never been borrowed (Use an outer join).
8. List Book details and loan details for all loans made on 1st May 2008.
9. List member details, book title and fine amount for all late returns where the fine amount exceeds €5.
10. List the book details for the most borrowed book (assume there is only one!).