

CT230 DATABASE SYSTEMS

ASSIGNMENT: 3

LAB DATES: 11TH, 12TH AND 16TH OCTOBER 2018

Due: (via Blackboard) by ~~Monday 22nd~~ Friday 26th October 2018

there is a penalty for late submissions

Learning Outcomes: To become familiar with:

- SQL SELECT FROM WHERE clauses
- Joins (implicit and explicit)
- Some aggregate functions

Goal: This assignment involves the **querying** of the tables (reading data from the tables) from the book domain. It is important that **all** data given in assignment 2 is input to the tables before producing the outputs for this assignment. If done completely, everyone should get the same answers.

Please note that it is good practice to write your query using the schema given before typing in and running in MySQL.

SCHEMA:

author (aID, fName, surname)

book (isbn, title, authorID, genre, pubYear, publisher, rrPrice, avgRating)

bookShop (shopNo, shopName, street, city, county)

orders (orderNo, sNo, oDate, salesRep)

orderDetails (oNo, bookISBN, quantity)

1. List the names of all authors in the database.
2. List the names of all bookshops in Galway (city and county).
3. Find the average, minimum and maximum recommended retail price (rrPrice) for books of genre "Fiction" in the database. (Note that you may want to use cast() and decimal() to ensure correct rounding)
4. Using the *implicit* join syntax, list the title and year published, of all books in the database by the author Colm Toibin.
5. Using the *explicit* join syntax, list the names and addresses of shops where the sales rep "Zoe Smith" has taken orders. (Note that duplicates should not be returned).
6. For all books ordered by the shop named "Easons" located in the city "Galway", list the titles of the books ordered, the date they were ordered and the quantity of each book ordered. (Note that 4 tables should be joined).

TASKS:

For each query include the SQL code and a screenshot of the datasheet view (results) in your solution. To aid correction, please keep the SQL query code and the associated output (results) together (near each other) and label correctly (1-6).

HAND UP:

Follow the assignment template guidelines given and ensure that all the specified outputs, the plagiarism declaration and the timestamp/database query name are included.