FETAC
Further Education and Training Awards Council
Comhairle na nDámhachtainí Breisoideachais agus Oiliúna

(National Council for Vocational Awards)

Database Methods
B20028 – Level 5

Practical Examination 2007
This exam counts for 50% of the module marks

Duration: Two Hours

Please take the full duration to read and attempt all task.

INSTRUCTIONS TO CANDIDATES

1. Attempt **all** tasks **in order**.
2. Read the paper **throughout** before you carry out any of the tasks.
3. Enter your name clearly on all printouts.
4. *Printing may be carried out, under supervision, after the time allowed for the practical examination but no alteration may be made to saved files.*
5. Files **must** be saved in your allocated exam storage space.
6. At the end of the examination, return all printouts **and** this examination paper to the supervisor.

Candidate Name: _____ **Date:** _____

PPS Number: _____

Eamonn Ceannt runs a small book store on O'Connell Street, Dublin. He wishes to create a database in which to store details of the titles he stocks. He intends to use the database to make it easier to answer customer enquiries. Create a new database file with the name **EXAM2007** for this.

1. Create a table with the name **BOOKS1** to hold the following data extracted from the records of Eamonn Ceannt.

BookTitle	Author	ISBN	Pages	Publisher	Retail (€)
Wild Swans	Chang, Jung	0385425473	508	Anchor	19.95
The Informer	O'Callaghan, Sean	0552146072	479	Corgi Press	11.40
Dombey & Son	Dickens, Charles	0192815652	734	Penguin	6.35
Holy Fools	Harris, Joanne	552770019	384	Black Swan	8.99
Heroes	Pilger, John	0330297570	565	Pan Press	16.99
Silas Marner	Eliot, George	140620915	221	Penguin	1.50
Woman In White	Collins, Wilkie	140620249	569	Penguin	1.50
Our Mutual Friend	Dickens, Charles	1853261947	739	Wordsworth	1.99
Way Of All Flesh	Butler, Samuel	0140621784	373	Penguin	1.99
Alfies Day Out	Dickens, Michael	1120299871	175	Pan Press	7.95

2. **Complete the Database Structure Form provided** to show field names, data types and field sizes/widths as appropriate. Indicate the Primary Key to be the ISBN as this must be unique anyway.

3. Design and create a screen form to allow the operator to enter the data shown above into the database/table. The format of the form should be as follows:
   - Insert the title **Book Details Entry Form** centrally on the form.
   - Display two fields on each line.
   - Place a label or title beside each field.

4. Print one copy of this screen form.

5. Input the data shown in the table above using the form you have created.

7. Print the table, **BOOKS1** with the data organised on the **Retail(€)** field in ascending order (primary sort) and on the **ISBN** field in descending order (secondary sort).

8. For each of the queries listed below, create the query and then print the resulting output. Ensure your name is present on each print out.

   (a) Select and print all the records for books which are published by **Penguin**. Save this query as **QUERY1.**

   (b) Select and print all the records for books written by anyone with the surname of **Dickens**. Use a wild card to select the required records. Save this query as **QUERY2.**

   (c) Select and print all records of books published by **Penguin** and where the **Retail Price** is €1.50. Save this query as **QUERY3.**

   (d) Select and print all the records for books whose **Publisher** name includes the word '**Press**' and the price is between €10.00 and €15.00. Save this query as **QUERY4.**

9. Copy the table as **BOOKS2** and make this modification:
   Add a new field to the database/table as follows:
   Field name – **InStock**,
   Field type – **Logical** (Yes/No)

10. Input data into the new field, **InStock**, as follows:
    All the **Penguin** books are out of stock.
    All other books are in stock. (TRUE)

11. Delete the record with **ISBN** 140620249

12. Add the following records to the table **BOOKS2**

BookTitle	Author	ISBN	Pages	Publisher	Retail(€)	InStock
Winter Scourge	Gately, Jim	1442983920	402	Arrow	19.95	No
Greenway	Marks, Kim	2019298701	217	Anchor	22.55	TRUE

13. Generate a report from the table, **BOOKS2**, to include all the following:

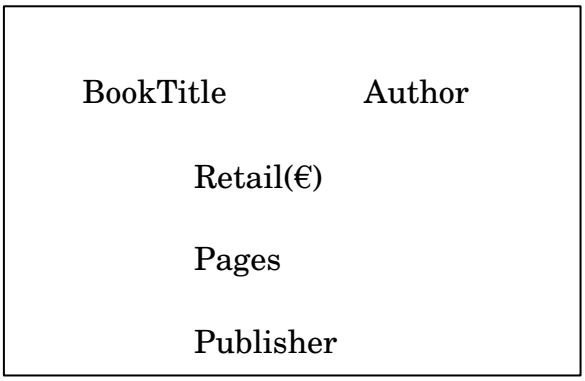
- Show all fields, except **ISBN** and **Publisher**
- Display the appropriate field heading centrally over each column of data.
- Display the title **List of Titles,** centrally over the report.
- Sort the report in ascending order on the **Author** field.

Save this report as **BOOKLIST**

14. Print **BOOKLIST**.

15. Produce a set of shelf labels, from the table, **BOOKS2,** for all books that are in stock. The labels should have the following format:

- Layout as shown below
- Have two labels across the sheet



16. Save these labels as **LABELS** and print.

DATABASE STRUCTURE ENTRY FORM

Field Name	Data Type	Size/Width

Name: _____ Date: 8th May 2007

CHECK LIST OF REQUIREMENTS

At the end of the examination you should have the following items:

1. The following items, saved:
   - (a) The table **BOOKS1** ☐
   - (b) The table **BOOKS2** ☐
   - (c) The query **QUERY1** ☐
   - (d) The query **QUERY2** ☐
   - (e) The query **QUERY3** ☐
   - (f) The query **QUERY4** ☐
   - (g) The report **BOOKLIST** ☐
   - (h) The labels **LABELS** ☐

2. The following printouts:
   - (a) The form ☐
   - (b) The table **BOOKS1** ☐
   - (c) The Query **QUERY1** ☐
   - (d) The Query **QUERY2** ☐
   - (e) The Query **QUERY3** ☐
   - (f) The Query **QUERY4** ☐
   - (g) The Report **BOOKLIST** ☐
   - (h) The Labels **LABELS** ☐

3. The Database Structure Entry Form completed.