



(National Council for Vocational Awards)



Database Methods B20028

Practical Examination 2004
This exam counts for 50% of the module

Duration: Two Hours

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 and examination number 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 on your allocated network drive/home folder.
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.

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

Rec No	Book Title	Author	ISBN	Pages	Publisher	Retail (€)
101	Wild Swans	Chang, Jung	0385425473	508	Anchor	19.95
103	The Informer	O'Callaghan, Sean	0552146072	479	Corgi Press	11.40
145	Dombey & Son	Dickens, Charles	0192815652	734	Penguin	6.35
102	Holy Fools	Harris, Joanne	552770019	384	Black Swan	8.99
109	Heroes	Pilger, John	0330297570	565	Pan Press	16.99
201	Silas Marner	Eliot, George	140620915	221	Penguin	1.50
255	Woman In White	Collins, Wilkie	140620249	569	Penguin	1.50
257	Our Mutual Friend	Dickens, Charles	1853261947	739	Wordsworth	1.99
275	Way Of All Flesh	Butler, Samuel	0140621784	373	Penguin	1.99
288	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.
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 (except the last line).
 - Place a label or title beside each field.
4. Print one copy of this screen form (either now or later)
5. Input the data shown in the table above into the database/table which you have created.
6. Save the table as **BOOKS1**
7. Print the whole database, **BOOKS1** (either now or later) 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 (either now or later) the resulting output:
- (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. Add a new field to the database/table as follows:
- Field name – **In Stock**,
Field type – **Logical** (Yes/No)
- Save this modified table as **BOOKS2**.
10. Input data into the new field, **In Stock**, as follows:
All the **Penguin** books are out of stock.
All other books are in stock.
11. Delete the record with **Rec No** 288
12. Add the following records to the database/table **BOOKS2**

Rec No	Book Title	Author	ISBN	Pages	Publisher	Retail (€)	In Stock
324	Winter Scourge	Gately, Jim	1442983920	402	Arrow	19.95	No
325	Greenway	Marks, Kim	2019298701	217	Anchor	22.55	Yes

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

- Show all fields, except **Rec No.** and **Publisher**
- Display the appropriate field heading centrally over each column of data.
- Display the title **List of Titles**, centrally over the report.
- Organise/Sort the report in ascending order on the **Author** field.

Save this report as **BOOKLIST**

14. Print **BOOKLIST** (either now or later).

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

Book Title	Author
Retail (€)	
Pages	
Publisher	

Save these labels as **LABELS**

16. Print the labels, **LABELS** (either now or later).

DATABASE STRUCTURE ENTRY FORM

Field Name	Data Type	Size/Width

Name: _____ **Date:** _____

CHECK LIST OF REQUIREMENTS

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

1. The following files/tables, saved:
 - (a) The database/table **BOOKS1**
 - (b) The database/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 database/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.