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

(National Council for Vocational Awards)

Database Methods B20028

Practical Examination 2003

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.
6. At the end of the examination, return all printouts and this examination paper to the supervisor.

Candidate Name: _____ Date: _____

Peter O'Reilly runs a retail outlet in Newport, Co. Tipperary. Recently he has started to experiment with recording details of the various products which he stocks. Peter O'Reilly wishes to set up a database to record these details and to enable him to retrieve information easily from the data stored.

1. Create a table with the name **PRODUCTS1** to hold the following data extracted from the records of Peter O'Reilly .

Rec No	Product	Brand	Case Qty	Stock Level	Location	Unit Retail Price (€)
1001	1 Ltr Cola	Smiths	12	15	Stores	1.49
1003	2 Ltr Orange	Smiths	6	2	Shop	2.09
1045	0.5 Ltr Bottle Cola	Smiths	24	11	Stores	0.99
1102	0.33 Ltr Can Cola	Smiths	24	8	Stores	0.79
1109	0.33 Ltr Can Orange	Smiths	24	23	Shop	0.79
1201	0.33 Ltr Can Orange Diet	Marchants	24	10	Warehouse	0.69
1255	1 Ltr Orange	Smiths	12	11	Stores	1.59
1257	2 Ltr Apple-ade	Williams	10	6	Shop	2.19
1275	1 Ltr Apple-ade	Williams	12	5	Warehouse	1.69
1276	0.5 Ltr Bottle Apple-ade	Williams	24	12	Stores	1.09
1292	0.33 Ltr Can Cola Diet	Marchants	24	10	Stores	0.69

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 **Soft Drinks Database** centrally on the form.
    - Display two fields on each line (except the last line).
    - Place a label or title beside each field.

4. Print 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 **PRODUCTS1**

7. Print the whole database, **PRODUCTS1** (either now or later) with the data organised on the **Case Qty** field in ascending order (primary sort) and on the **Stock Level** 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 products which are produced by **Marchants**. Save this query as **QUERY1.**

   (b) Select and print all the records for **Diet** products. Use a wild card to select the required records. Save this query as **QUERY2.**

   (c) Select and print all records which are located in the **Stores** and where the **Case Qty** is 24. Save this query as **QUERY3.**

   (d) Select and Print all the records for products where the **Brand** is Smiths, where the **Unit Retail Price** is between €1.00 and €2.00 and the **Stock Level** is less than 12. Save this query as **QUERY4.**

9. Add a new field to the database/table as follows:

   Field name – **Discount Available**,
   Field type – **Logical** (Yes/No)

   Save this modified table as **PRODUCTS2**.

10. Input data into the new field, **Discount Available**, as follows:
    All the **Smiths** products have discounting schemes available.
    All other products do not have discounting schemes available.

11. Delete the record with **Rec No** 1102

12. Add the following records to the database/table **PRODUCTS2**

Rec No	Product	Brand	Case Qty	Stock Level	Location	Unit Retail Price (€)	Discount Available
1324	1 Ltr Ginger Ale	Marchant	12	7	Shop	1.49	No
1325	2 Ltr Tangerine	Smiths	6	1	Stores	1.99	Yes

13. Generate a report from the database/table, **PRODUCTS2**, to include all the following:

- Show all fields, except **Rec No**.
- Display the appropriate field heading centrally over each column of data.
- Display the title **List of Products,** centrally over the report.
- Organise/Sort the report in descending order on the **Price** field.
- Show a total for the **Stock Level** field at the bottom of the report.

Save this report as **REPORT**

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

15. Produce a set of storage box labels, from the table, **PRODUCTS2,** for all products except those located in the warehouse. The labels should have the following format:

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

Rec No	Product
Brand	
Unit Retail Price	
Location	

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 **PRODUCTS1** ☐
   - (b) The database/table **PRODUCTS2**
   - (c) The query **QUERY1** ☐
   - (d) The query **QUERY2** ☐
   - (e) The query **QUERY3** ☐
   - (f) The query **QUERY4** ☐
   - (g) The report **REPORT** ☐
   - (h) The labels **LABELS** ☐

2. The following printouts: ☐
   - (a) The form
   - (b) The database/table **PRODUCTS1** ☐
   - (c) The Query **QUERY1** ☐
   - (d) The Query **QUERY2** ☐
   - (e) The Query **QUERY3** ☐
   - (f) The Query **QUERY4** ☐
   - (g) The Report **REPORT** ☐
   - (h) The Labels **LABELS** ☐

3. The Database Structure Entry Form completed.