

B 012B

National Council for Vocational Awards



Database Methods Level 2 Practical Examination

Duration: Two Hours

INSTRUCTIONS TO CANDIDATES

1. Attempt all six tasks.
2. Read the paper throughout before you attempt any of the tasks.
3. Enter your name and examination number clearly on all printouts.
4. Printing may be carried out after the time allowed for the practical examination but no alteration may be made to the saved files.
5. Files must be saved on a floppy disk labelled with your examination number.

TERMINOLOGY USED

You should note that the term **database structure** will be used to describe the template used to create the database in the package you are using. For example, in dBase it will refer to the database file structure and in Microsoft Access it will refer to the TABLE structure. Also the term **data set** will be used to describe the actual data in the database, i.e the records.

Introduction:

Paddy Watt's is a bookmakers chain with outlets in most towns in Ireland. At the head office in Galway a database is required to keep track of bets placed in its various outlets. For this purpose copies of all dockets are sent electronically to head office. Details are then inserted into the database.

Task 1

(6 Marks)

Create a database/table to hold the following sample data extracted from the data received at head office. Save this database/table with the name **BETS1**.

Docket No	Branch	Received Date	Stake	Payout	Type of Bet
101001	Harbour Road, Arklow	06/08/96	£5.00	£105.00	Treble
101020	Arklow Road, Wicklow	09/08/96	£100.00	£150.00	Single
101067	Shop St, Galway	07/08/96	£20.00	£75.00	Double
101102	Main St, Arklow	06/08/96	£40.00	£120.00	Single
101143	Shop St, Galway	08/08/96	£200.00	£300.00	Single
101147	Shop St, Galway	08/08/96	£500.00	£1500.00	Single
101154	Bridge St, Waterford	10/08/96	£15.00	£195.00	Yankee
101211	Harbour Road, Arklow	11/08/96	£50.00	£3000.00	Yankee
101244	Shop St, Galway	13/08/96	£50.00	£400.00	Double
101261	Main St, Arklow	14/08/96	£10.00	£90.00	Single

Fill out the Database Structure Form provided to show field names, data types and field sizes/widths as appropriate.

Task 2

(10 Marks)

2.1 Design and create a form to allow the operator to enter the data shown above into the database/table.

You should use the following format

- insert the title **Posting Details** centrally on the screen
- display two fields on each line
- place a label or title beside each field.

Either print this form (now or later) or call the specialist teacher **at the end of the examination** to award marks to your form.

2.2 Enter all the sample data, given above, into the database/table.
Save the database/table and print this dataset either now or later.

Task 3

(10 Marks)

For each of the queries listed below create the query in the manner appropriate to the package you are using and then print (now or later) the resulting output.

- 3.1 Find and print all records for bets at the **Harbour Road, Arklow** branch.
- 3.2 Find and print all records for bets placed in either of the **Arklow** Branches. (Use a wild-card)
- 3.3 Find and print all records for bets at the **Shop St, Galway** branch and where the **Stake** was greater than £50.00
- 3.4 Find and print all records for bets at the Galway or Wicklow **Branches**, where the **Payout** was between £100.00 and £1000.00 inclusive and where the **Type of Bet** was Single.

Task 4

(10 Marks)

Make the following modifications to the database/table and save this new database/table as **BETS2**.

- 4.1 Add a true/false type field, field name **Win**, to the database structure.
- 4.2 Insert the values listed below, for the existing records, into this new field.

Docket No		Win
101001	→	Yes
101020	→	Yes
101067	→	No
101102	→	No
101143	→	No
101147	→	No
101154	→	No
101211	→	Yes
101244	→	Yes
101261	→	No

Task 5

(20 Marks)

Generate a report, from the **BETS2** database/table, with the format specified below:

- Show all fields except **Type of Bet**.
- Display the title **Details Posted August 1996** centrally over the data.
- Show a grand total at the end of the report for the **Payout** field.
- Sort in descending order on the **Branch** field, (primary sort).
- Sort in ascending order **Stake field**, (secondary sort).
- Columns aligned under column headings and evenly spaced across the page.

Save this report as **REPORTB**.

Print this report either now or later.

Task 6

(10 marks)

Produce a set of mailing labels, from the database/table **BETS2**, for all docket, except those from the Waterford branch.

Each mailing label should have the following format:

layout as shown below,

have at least two labels per line

print in ascending order by **Branch**.

DOCKET NO	RECEIVED DATE
BRANCH	
TYPE OF BET	WIN

Total Mark = 50

CHECK LIST OF REQUIREMENTS:

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

Tick ✓

1. The following data saved on disk:
 - (a) **BETS1** from task 1.
 - (b) **BETS2** from task 4.
 - (c) **REPORTB** from task 5.
2. The following forms and printouts.
 - (a) Database Structure Form from Task 1
 - (b) Form from Task 2 (not required if marked from screen)
 - (c) Contents of **BETS1** from Task 2.
 - (d) Four Queries from Task 3.
 - (e) Report from Task 5.
 - (f) Mailing Labels from Task 6.
3. Return your disk, forms and printouts and this examination paper to the supervisor at the end of the examination.

Database Structure - Form

Field Name	Data Type	Size/Width

Name: _____

Examination Number: _____

Date: _____