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QUALIFICATIONS,
CURRICULUM &
ASSESSMENT AUTHORITY
FOR WALES



Key skills

Information and communication technology

Level 3 - Plants

14th - 16th June 2006

Test Paper

YOU NEED

- This test paper
- A cover sheet
- Access to a computer, software and a printer
- Access to two data files to support the scenario 'Plants': **PStock** and **PBulb**

You may use a bilingual dictionary

Do NOT open this test paper until you are told to do so by the supervisor

THERE ARE 3 TASKS IN THIS TEST

Task A (total 25 marks)

Task B (total 24 marks)

Task C (total 1 mark)

Total marks available: 50

Try to complete **ALL** the tasks

YOU HAVE 1 HOUR 30 MINUTES TO FINISH THE TEST

INSTRUCTIONS

- Make sure your personal details are entered correctly on the cover sheet
- Make sure you print out all your work
- Task C **must** be completed; if necessary, it may be carried out after the end of the test

At the end of the test, check that your name appears on EVERY printed page
Attach your printouts and this test paper to the cover sheet and hand them
to the supervisor

REMEMBER: YOU HAVE 1 HOUR 30 MINUTES TO FINISH THE TEST

You may complete either Task A or Task B first
Task C must be completed at the end of the test

Try to complete ALL the tasks
ENTER YOUR NAME ON EVERY PAGE, PREFERABLY AS A FOOTER
Pages without a name will not be marked

A Garden Centre stocks a variety of plants and bulbs. You will use database and spreadsheet software to:

- import a data file into a database table
- interrogate the database and produce a report
- import a data file into a spreadsheet and perform calculations on the data
- produce a chart

Task A

A database of plants in stock is required.

Category	Name	Variety	Code
Patio	Eunonymous	Mixed	VY
Patio	Hebe	Varigatum	P
Patio	Pieris	Carnival	B

Price	Height
12.5	S
12	M
12	M

- 1 A database of plants is required.
 - a Open a database application and create a new database. The filename for this database must be the characters **D1-** followed by your initials, for example **D1-FJB**. If your database software requires you to save the file, you should save it after each of the following instructions using the next number in sequence each time, for example **D2-FJB** then **D3-FJB** and so on.
 - b Import the data file **PStock** into a table and name the table **Stock**. The data includes a header row, is comma delimited and text is enclosed in quotes (").
 - c Set the primary key as **ReferenceID**.
 - d Set the data type for the **Price** field as currency to two decimal places.
 - e Set the field size for the **Height** field to one character.

7 marks

2 Validation of the data is required.

- a Set up validation for the **Height** field that accepts only **S**, **M** or **T** as valid entries with the validation message "Enter S, M or T only".
- b Use 'Screen Dump', 'Print Screen' or 'Documenter' techniques to show the design of the table including
 - all field names and data types
 - the primary key
 - the size of **Height** field
 - the validation rule for the **Height** field
 - the validation message for the **Height** field.
- c Place your name, today's date and the title **Printout-1** in a footer and print the table design.

5 marks

3 A report is required listing small and medium red plants.

- a Using the **Stock** table, create a query named **Red** to find all the records where **Code** includes the letter 'R' and **Height** is either 'S' or 'M'. Include all fields in the query.
- b Use the query to produce a report in portrait form with the report title **Short and medium plants with red flowers**.
- c Include only the fields **Category**, **Name**, **Variety**, **Code**, **ReferenceID**, **Price** and **Height** in the report, presented in columns in this order. Make sure all information is fully displayed.
- d Group the report by **Category** with the records in ascending order of **Name** within each group.
- e Place your name, today's date, the page number, number of pages and the title **Printout-2** in a footer and print the report.

13 marks

Task B

A spreadsheet showing sales targets is required.

	A	B	C	D	G	H
1	2005 Bulb Sales					
2					Target Profit	500
3						
4	Bulb	Costs	Quantity Sold	Target Sales	Profit	Review
5	Allium	2000	309	308		
6	Anemone	2000	381	429		
12	Daffodil	3000	684	539		
13	Crocus	200	242	231		

4 A spreadsheet is required.

- Open a spreadsheet application and create a new spreadsheet. Import the data file **PBulb** into the spreadsheet starting at cell **A1**. (If the software you are using does not allow import, then open the data file.) The data is comma delimited and text is enclosed in quotes (").
- Set the format of the cell ranges **B5:B13** and **E5:G13** as currency to two decimal places and the format of cell **H2** as currency to zero decimal places.
- Save the spreadsheet (in normal spreadsheet format ie NOT as a .txt file) using the characters **S1**- followed by your initials as the filename, for example **S1-FJB**.

2 marks

5 Calculations need to be carried out.

- Income** is **Quantity Sold** multiplied by **Retail Price**. Enter a formula in cell **F5** to calculate the **Income** for the first bulb.
- Profit** is **Income** minus **Costs**. Enter a formula in cell **G5** to calculate the **Profit** for the first bulb.
- In cell **H5** enter a formula to display the message "Good" if **Quantity Sold** in cell **C5** is greater than or equal to **Target Sales** in cell **D5** AND if the value in cell **G5** for **Profit** is greater than or equal to the value in cell **H2** otherwise to display "Poor".
- Replicate the formulas in the cells **F5:H5** to display the results for all bulbs.

- e Save the spreadsheet using the characters **S2**- followed by your initials as the filename, for example **S2-FJB**.
- f Place your name, today's date and the title **Printout-3** in a footer and print the spreadsheet.

12 marks

6 A formula printout is required.

- a Hide the data in columns **B**, **C** and **D**.
- b Save the spreadsheet using the characters **S3**- followed by your initials as the filename, for example **S3-FJB**.
- c Amend the title in the footer to **Printout-4** and print the spreadsheet in landscape form showing all formulas, sheet row numbers, sheet column letters and gridlines. Make sure all information is fully displayed.
- d Close this spreadsheet (**S3**).

5 marks

7 A chart is required.

- a Open spreadsheet **S2**.
- b Create a vertically stacked bar chart to show the **Quantity Sold** and the **Target Sales** for each bulb. Plot the chart to show the bulb name on the x-axis and the number of bulbs on the y-axis.
- c Label the x-axis **Bulb Name**, the y-axis **Number of Bulbs** and give the chart the title **Bulb Sales**.
- d Place an appropriate legend to the right of the chart.
- e Save the spreadsheet using the characters **S4**- followed by your initials as the filename, for example **S4-FJB**.
- f Place your name, today's date and the title **Printout-5** in a footer and print the chart.

5 marks

Task C

The following task must be completed. If you have not completed this item within the time allowed, it must be completed at the end of the test.

- 8 A printed list of the filenames you produced during the test is required.
- a Produce a list of all the files created during the test. This should be in the form of a screen dump (print screen) showing the filenames you created with your name, today's date and the title **Printout-6** as a footer.

1 mark

End of test

Important note

Collect together all your printouts. They should include:

- | | |
|-------------------|---|
| Printout-1 | Database structure showing validation rule |
| Printout-2 | Report entitled Short and medium plants with red flowers |
| Printout-3 | Spreadsheet showing sales data |
| Printout-4 | Formula printout with columns B , C and D hidden |
| Printout-5 | Bar chart entitled Bulb Sales |
| Printout-6 | A list of filenames created |

Check that your name is printed on every page. If it is not, write it there. Now attach all the pages in order to the cover sheet and hand them to the supervisor.

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