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Edexcel
Success through qualifications

Key skills information technology Level 3 - IceCream

Wednesday 24 - Friday 26 March 2004

Test Paper

YOU NEED

- This test paper
- A cover sheet
- Access to a computer, software and printer
- Access to the data files to support the scenario 'IceCream': **IceSales**, **IceCone** and **Stock**

You may use a bilingual dictionary

Do NOT open this 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

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Ref: IT/L3/2.2/P2

**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**

The **Melody Corporation** owns and manages ice cream vans.

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
- import and resize an image in the spreadsheet

Task A

A database of the stock carried by each ice cream van is required.

ProductID	ProductName	Category	Supplier	TradePrice	RetailPrice
FA01	Jumbo Truffle Milk	Adult Lines	Fabrizio Bros	4.73	0.24
FA02	Jumbo Truffle White	Adult Lines	Fabrizio Bros	4.73	0.24
FA03	Monster Choc Bar	Adult Lines	Fabrizio Bros	4.73	0.24

1 A database table of stock is required.

- a Open a database application and create a new database. The filename for the database must be the characters **D1**- followed by your full 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, eg **D2-FJB** then **D3-FJB** and so on.
- b Import the data file **Stock** into a table and name the table **Stock**. The data file is a comma-delimited text file containing a header row and text is enclosed in quotes (").
- c Set the primary key as **ProductID**.
- d Set the data type of **TradePrice** and **RetailPrice** as currency to two decimal places.

5 marks

- 2 Validation of the data is required.
- Set up validation on the **Re-orderLevel** field to accept only values from 1 to 400 inclusive with a validation text message 'Enter a number between 1 and 400'.
 - Using 'Screen Dump', 'Print Screen' or 'Documenter' techniques, produce a printout showing the design of the table which includes
 - all field names and data types
 - the primary key
 - the validation rule for the **Re-orderLevel** field
 - the validation message for the **Re-orderLevel** field
 - Place your name, today's date and the title **Printout-1** in a footer and print this information.

8 marks

- 3 A report is required listing a selection of stock.
- Create a query named **Under-10** to find all stock where the **Supplier** is **Wardleys** and the **TradePrice** is less than or equal to 10. Include all fields in the query.
 - Use the query to produce a report in portrait form with the heading **Under-10**.
 - Include only the fields **Category**, **ProductName**, **TradePrice**, **UnitSize**, **RetailPrice** and **ProductID** in the report, presented in columns in this order. Make sure all information is fully displayed.
 - Group the report by **Category** with the records in each **Category** in ascending order of **ProductName**.
 - Place your name, today's date, the page number, the total number of pages and the title **Printout-2** in a footer and print the report.

12 marks

Task B

A spreadsheet showing sales and profits is required to determine whether donations to charity are to be made.

	A	B	C	D
1	THE MELODY CORPORATION - SALES FORECAST			
2				
3	PRODUCT	TRADE PRICE	PROFIT PER ITEM	ITEMS SOLD IN APRIL
4	Lemon Spice	0.62	0.33	11
5	Orange Spice	0.62	0.33	18
6	Orange Sizzler	0.62	0.33	14

- 4 A spreadsheet of sales is required.
- Open a spreadsheet application and import the data file **IceSales** into the spreadsheet starting at cell **A1**. (If the software you are using does not use import, then open the data file.) The data is comma delimited and text is enclosed in quotes (").
 - Save the spreadsheet using the characters **S1**- followed by your initials as the filename, for example **S1-FJB**.
 - Set the format for the values in columns **B, C, E, G, I** and cell **K2** as currency to two decimal places.
 - Sort the spreadsheet so that the information is displayed in ascending order of **PRODUCT**.
 - Insert four rows above row **2**.
 - Insert the graphic file **IceCone** into cell **H2**. Making sure that it maintains its height to width ratio, adjust the size of the graphic so that it covers four rows (eg **H2:H5**).
 - Hide columns **B** to **G** inclusive and columns **I, J** and **K**. Place your name, today's date and the title **Printout-3** in a footer and print only the information in cell range **A1:L17** of the spreadsheet, in landscape form, with sheet row numbers, sheet column letters and gridlines. Make sure that all information is fully displayed.
 - Save the spreadsheet using the characters **S2**- followed by your initials as the filename, for example **S2-FJB**.

7 marks

- 5 Details of profits and donations are required.
- a Unhide all columns.
 - b **PROFIT IN APRIL** is the **PROFIT PER ITEM** multiplied by the **ITEMS SOLD IN APRIL**. Enter a formula in cell **E8** to calculate the **PROFIT IN APRIL** for the first product. Replicate this formula to display the **PROFIT IN APRIL** for each **PRODUCT** listed. Enter and replicate similar formulas for the **PROFIT IN MAY** and **PROFIT IN JUNE** columns.
 - c Enter formulas in row **19**, to calculate the **MONTHLY PROFIT** for the months of April, May and June.
 - d In cell **E20** enter a formula that returns **YES** if the **MONTHLY PROFIT** for April is greater than or equal to the donation threshold in cell **K6**, but otherwise returns **NO**.
 - e Replicate this formula to display the **DONATION TO BE MADE** results for May and June. (Note that the value in **K6** may change.)
 - f Amend the title in the footer to **Printout-4** and print only the information in the cell range **C7:I20** of the spreadsheet, in landscape form, with sheet row numbers, sheet column letters and gridlines. Make sure that all information is fully displayed.
 - g Save the spreadsheet using the characters **S3-** followed by your initials as the filename, for example **S3-FJB**.
 - h Amend the title in the footer to **Printout-5** and print only the information in cell range **E7:I20** of the spreadsheet in landscape form showing all formulas, sheet row numbers, sheet column letters and gridlines. Make sure all information is fully displayed.
 - i Save the spreadsheet using the characters **S4-** followed by your initials as the filename, for example **S4-FJB**.

17 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.

- 6 A printed copy of a list of the files you produced during the test is required.
 - a Produce a copy of all the files created during the test. This may be in the form of a screen dump (print screen) of the filenames 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 documents. They should include

- Printout-1** Database table structure showing validation
- Printout-2** Report headed **Under-10**
- Printout-3** Spreadsheet columns A and H, showing sorted data and imported image
- Printout-4** Spreadsheet area C7:I20, in landscape with calculated values
- Printout-5** Spreadsheet cell range E7:I20 showing formulas
- Printout-6** List of files created

Check that your name is printed on every page. If it is not, write it there and ask the supervisor to authenticate that the page contains your own work. Now attach all the pages in order, and this test paper, to the cover sheet and hand them to the supervisor.