# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS Cambridge International Diploma in ICT Standard Level 

DATA ANALYSIS

Optional Module: Practical Assessment

No Additional Materials are required

## 1 hour and 15 minutes reading time

## READ THESE INSTRUCTIONS FIRST

Candidates are permitted 15 minutes reading time before attempting the paper.
Make sure that your name, centre number and candidate number are shown on each printout that you are asked to produce.

Carry out every instruction in each task.
Tasks are numbered on the left hand side of the page, so that you can see what to do, step by step. On the right hand side of the page for each task, you will find a box which you can tick $(\checkmark)$ when you have completed the task; this checklist will help you to track your progress through the assessment.

Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assignment put all your printouts into the Assessment Record Folder.

## www.xtremepapers.net

You work for an electrical retail company called Electry. Your manager has asked you to calculate the current stock position for stock items.

All currency values should be in dollars with the $\$$ sign visible.

1
Create a data model which looks like this:

| Information Table |  |
| :--- | ---: |
| Mark-up | 0.03 |
| Number of items | 0.05 |
| Small |  |
| Large |  |


| Date | Item | Size of item | Purchase | Increase | Sale |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Café espresso |  |  |  |  |
|  | Freezer |  |  |  |  |
|  | Fridge |  |  |  |  |
|  | Fridge/Freezer |  |  |  |  |
|  | Heater |  |  |  |  |
|  | Iron |  |  |  |  |
|  | Kettle |  |  |  |  |
|  | Microwave |  |  |  |  |
|  | Oven | Tumble Dryer |  |  |  |
|  | Vacuum Cleaner |  |  |  |  |
|  | Washing Machine |  |  |  |  |

The cells in these columns will represent:

Date
Item
Size of item
Purchase
Increase

Sale
Information Table
Mark-up
Number of items

Date of stock in
The type of electrical equipment
Whether a large item or a small item
The price paid for each item
The value added to each item based on the Purchase price. If the Purchase price is greater than or equal to 300 , then the increase is $5 \%$. Otherwise the increase is $3 \%$.
The price each item is sold at, including the increase

The percentage increase added on all items
Count of the number of items.

2 In the Information Table, name the cell that holds the data 0.03 three.
Name the cell that holds the data 0.05 five.
These named cells will be used to calculate the Increase

In the main table in the cell under Increase, enter a formula using IF. This formula calculates the mark-up on the first item.

If the Purchase is greater than or equal to $\mathbf{3 0 0}$ then multiply the Purchase by the named cell five to calculate the Increase

If the Purchase is less than $\mathbf{3 0 0}$ then multiply the Purchase by the named cell three to calculate the Increase

4 In the main table in the cell under Sale, enter a formula which adds the Increase to the Purchase

In the Information Table, format the cells containing the data 0.03 and 0.05 to display the \% value with 0 decimal places (for example 5\%).

6
In the Information Table, use Countif to count the number of items where the Size of item is Small. Place the result in the cell to the right of the heading Small.

In the Information Table, use Countif to count the number of items where the Size of item is Large. Place the result in the cell to the right of the heading Large.

7 Format the cells in the Date column to a long date format (for example March 12, 2004).

8 Format the cells in the Purchase, Increase, and Sale columns to display the \$ sign (dollar) with 2 decimal places.

9 Copy down all formulae entered in steps $3-4$ so that 12 rows of data can be entered.

10 Set the page orientation to landscape.
Save the data model and print a copy of the sheet showing the formulae used. Make sure that the contents of all cells are visible and that the printout fits onto a single printed page.
3.3.1

12 Enter the following data into the model to test that it works correctly:

| Date | Item | Size of item | Purchase |
| ---: | :--- | :--- | ---: |
| January 24, 2005 | Café espresso | Small | 29 |
| January 30, 2005 | Freezer | Large | 399 |
| February 6, 2005 | Fridge | Large | 305 |
| February 15, 2005 | Fridge/Freezer | Large | 560 |
| March 19, 2005 | Heater | Small | 20 |
| March 20, 2005 | Iron | Small | 15 |
| March 26, 2005 | Kettle | Small | 25 |
| April 2, 2005 | Microwave | Small | 250 |
| May 2, 2005 | Oven | Large | 678 |
| May 7, 2005 | Tumble Dryer | Large | 299 |
| May 17, 2005 | Vacuum Cleaner | Small | 78 |
| May 22, 2005 | Washing Machine | Large | 695 |

13 Save this data and print a copy showing the values. Make sure that the
3.2.1 contents of all cells are visible and that the printout fits onto a single printed
4.1.1 page.

14 Produce a printout showing only the rows where the Size of item contains Small
2.1.1
4.1.1

15 Produce a printout showing only the rows where the Date is after 13 March 2005 and the Purchase is greater than 500
2.1.1
4.1.1

[^0]
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DATA ANALYSIS 5192/B
Optional Module: Practical Assessment

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Before each printout you should proof-read the document to make sure that you have followed all instructions correctly.

At the end of the assignment put all your printouts into the Assessment Record Folder.

## www.xtremepapers.net

You work for a camera company called Dygitell. Your manager has asked you to calculate the retail price of current stock for digital cameras.

All currency values should be in dollars with the $\$$ sign visible.

1
Create a data model which looks like this:

| Information Table |  |
| :--- | :--- |
| Mark-up | 0.05 |
| Number of types | 0.07 |
| Novice |  |
| Expert |  |


| Date | Make | Type | Purchase | Increase | Sale |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Argus |  |  |  |  |
|  | Canon |  |  |  |  |
|  | Casio |  |  |  |  |
|  | Fuji |  |  |  |  |
|  | Kodak |  |  |  |  |
|  | Konica |  |  |  |  |
|  | Minolta |  |  |  |  |
|  | Nikon |  |  |  |  |
|  | Olympus |  |  |  |  |
|  | Pentax |  |  |  |  |
|  | Sony |  |  |  |  |
|  | Toshiba |  |  |  |  |

The cells in these columns will represent:

| Date | Date of stock in <br> Make <br> The make of the camera <br> Purchase <br> Increase |
| :--- | :--- |
| Camera for either the novice or the expert <br> The price paid for each camera |  |
| Sale | The value added to each item based on the <br> Purchase price. If the Purchase price is greater <br> than or equal to 300, then the increase is $7 \%$. |
| Otherwise the increase is $5 \%$. |  |
| The sale price of each camera including the |  |
| increase. |  |

2 In the Information Table, name the cell that holds the data 0.05 five

These named cells will be used to calculate the Increase
3 In the main table in the cell under Increase, enter a formula using IF. This formula calculates the mark-up on the first stock item.

If the Purchase is greater than or equal to $\mathbf{3 0 0}$ then multiply the Purchase by the named cell seven to calculate the Increase

If the Purchase is less than $\mathbf{3 0 0}$ then multiply the Purchase by the named cell five to calculate the Increase

4 In the main table in the cell under Sale, enter a formula which adds the Increase to the Purchase

5 In the Information Table, format the cells containing the data 0.05 and 0.07 to display the \% value with 0 decimal places (for example $5 \%$ ).
$6 \quad$ In the Information Table, use Countif to count the number of cameras where the Type is Novice. Place the result in the cell to the right of the heading Novice.

In the Information Table, use Countif to count the number of cameras where the Type is Expert. Place the result in the cell to the right of the heading Expert.

7 Format the cells in the Date column to a long date format (for example March 12, 2004).

8 Format the cells in the Purchase, Increase, and Sale columns to display the \$ (dollar) sign with 2 decimal places.

9 Copy down all formulae entered in steps $3-4$, so that 12 rows of data can be entered.

10 Set the page orientation to landscape.
11 Save the data model and print a copy of the sheet showing the formulae used. Make sure that the contents of all cells are visible and that the printout fits onto a single printed page.

## www.xtremepapers.net

| Date | Make | Purchase |  |
| ---: | :--- | :--- | ---: |
| January 24, 2005 | Argus | Novice | 199 |
| January 30, 2005 | Canon | Novice | 399 |
| February 6, 2005 | Casio | Novice | 305 |
| February 15, 2005 | Fuji | Expert | 560 |
| March 19, 2005 | Kodak | Novice | 345 |
| March 20, 2005 | Konica | Novice | 314 |
| March 26, 2005 | Minolta | Novice | 399 |
| April 2, 2005 | Nikon | Expert | 685 |
| May 2, 2005 | Olympus | Expert | 1299 |
| May 7, 2005 | Pentax | Novice | 299 |
| May 17, 2005 | Sony | Expert | 595 |
| May 22, 2005 | Toshiba | Expert | 1287 |

13 Save this data and print a copy showing the values. Make sure that the
3.2.1 contents of all cells are visible and that the printout fits onto a single printed page.

14 Produce a printout showing only the rows where the Type contains Novice
15 Produce a printout showing only the rows where the Date is after 1 May 2005 and the Purchase is greater than 350
4.1.1
2.1.1
4.1.1
2.1.1
4.1.1

[^1]
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