



Unit Number

U3051252/KT3T

Key Skills

Information & Communication Technology

Level 3 - Accident

16-18 January 2008

Total Marks: 50

Time: 1 hour 30 minutes (including reading time)

Materials required for examination

This test paper

A return sheet

Access to a computer, software and a printer

Access to the data files to support the scenario 'Accident': **ACalls** and

ARespond

You may use a bilingual dictionary

Instructions to Candidates

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

In the boxes on the Return Sheet, write your centre number, registration number, surname and initials. The paper reference is shown above.

Task C **must** be completed. If necessary, it may be carried out after the end of the test.

Check that your name appears on EVERY printed page.

At the end of the test, hand the test paper, your printouts (attached to your Return Sheet) and all notes to the supervisor.

Information for Candidates

This test consists of 3 tasks.

Task A (total 25 marks)

Task B (total 24 marks)

Task C (total 1 mark)

You may commence with Task A or Task B, Task C must be completed at the end of the test.

Advice to Candidates

Try to complete All the tasks

Instructions to Centres

This paper must not be photocopied

Turn Over

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You may complete Task A or Task B in any order
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 hospital trust needs to analyse emergency responses for ambulances. 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

Task A

A database of emergency calls is required.

Date	CallID	ResponseTime	NumberTreated	AandE
18/12/2007	R-0956	00:12:00	2	Yes
17/12/2007	R-0961	00:22:00	0	No
19/12/2007	R-0973	00:00:00	0	No

- 1 A database 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 **ACalls** into a table and name the table **Calls**. The data includes a header row, is comma delimited and text is enclosed in quotes (").
 - c Set the primary key as **CallID**.
 - d Set the data type for the **AandE** field as logical. (Your software may display this field in a form other than Yes/No.)

6 marks

- 2 Validation of the data is required.
- a Set up validation for the **Category** field that accepts only **A, B** or **C** as valid entries with a validation message "Must be **A, B** or **C**".
 - 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 validation rule for the **Category** field
 - the validation message for the **Category** 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 of call outs to B roads is required.
- a Create a query named **BRoads** to find all records where **Date** is between 20 December 2007 and 2 January 2008 inclusive and where **Road** starts with the letter 'B'. Include all fields in the query.
 - b Use the query to produce a report in portrait form with the report title **Calls to B roads during holiday period**.
 - c Include only the fields **Watch, Date, CallID, Road, Driver, ResponseTime** and **AandE** in the report, presented in columns in this order. Make sure all information is fully displayed.
 - d Group the report by **Watch** with the records in ascending order of **Date** within each group.
 - e Modify the report to show the column heading **AandE** as **Hospital**.
 - f Place your name, today's date, the page number, number of pages and the title **Printout-2** in a footer and print the report.

14 marks

Task B

A spreadsheet of call out times is required.

	A	B	G	H
1	Response Analysis			
2				
3	Crew Code	AT-1123		
4	Week Ending	28/06/2008		
5				
6	Call ID	Date	Target Met	Report Statement
7	R-1209	22/06/2008		
20			TRA	Heavy traffic
21			FOS	First on scene

4 A spreadsheet is required.

- Open a spreadsheet application and create a new spreadsheet. Import the data file **ARespond** 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 (").
- Save the spreadsheet (in normal spreadsheet format i.e. NOT as a .txt file) using the characters **S1** - followed by your initials as the filename, for example **S1-FJB**.

1 mark

5 Calculations need to be carried out.

- In cell **G7** enter a formula to display 'Yes' if the **Arrival Time** minus the **Call Time** for **CallID R-1209** is less than or equal to the **Target Time** value in cell **D3**, otherwise to display 'No'.
- Using the information in cell range **G16:H21** as a lookup table, enter a formula in cell **H7** that will display the **Report Statement** for the response code shown in cell **F7**.
- Replicate the formulas in cell range **G7:H7** to display the results for all other responses.
- Place your name, today's date and the title **Printout-3** in a footer and print the spreadsheet in landscape form.
- Save the spreadsheet using the characters **S2**- followed by your initials as the filename, for example **S2-FJB**.

18 marks

- 6 A formula printout is required.
- a Hide the data in columns **B, C, D, E** and **F**.
 - b 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.
 - c Save the spreadsheet using the characters **S3-** followed by your initials as a filename, for example **S3-FJB**.

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.

- 7 A printed list of the filenames is required.
- a Produce a list of all the files you have created during the test. This must be in the form of a screen dump (print screen) showing the filenames with your name, today's date and the title **Printout-5** as a footer.

1 mark

End of test

Important note

Collect together all your printouts. They should include:

- | | |
|-------------------|---|
| Printout-1 | Database structure showing the validation rule |
| Printout-2 | Report headed Calls to B roads during holiday period |
| Printout-3 | Spreadsheet showing the response data |
| Printout-4 | Formula printout with columns B, C, D, E and F hidden |
| Printout-5 | A screen dump 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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