

Edexcel GCE

Applied Information and Communication Technology

Unit 7: Using Database Software

January 2012

Scenario

Paper Reference

6957/01

The scenario should be distributed to candidates at least three working weeks before the examination.

Note: There are **no** practice files for this examination.

This scenario should be used for the purposes of preparing candidates for the examination. This copy **must not** be taken into the examination. The information contained in the scenario will be included in the examination paper.

Further details are in the Instructions of the Conduct of Examinations (ICE), available from the Edexcel website for this qualification.

Edexcel will not accept any request for special consideration should candidates be given the incorrect scenario for the examination they are sitting.

Turn over

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Scenario

Berrymill Secondary School Trip

Charles Howells is a science teacher at Berrymill Secondary School. He is arranging a four-day trip to Paris for three teachers and 20 students. The dates for the trip will be 14th to 17th March 2012.

Charles needs to collect the students' personal information, including their passport numbers and emergency contact details.

The cost of the trip is £400 per student. The students can make one payment of £400 or spread the cost with four £100 instalments.

Charles has used the Internet to research places of interest, and has decided that the students will visit the Eiffel Tower and the Louvre. The students will be divided into two groups of 10 for these visits. On the 15th one group will visit the Eiffel Tower and the other will visit the Louvre. On the 16th each group will visit the other place of interest.

Charles knows you are studying ICT and thinks you could develop an IT-based solution to help him manage the trip. In the first instance it has been agreed that you will design and build a **prototype** relational database system that will focus on four tasks. The final system will be based on your evaluation of the prototype and your recommendations for further functionality.

These are the tasks.

1 **Sign Up**, which involves:

- ensuring a passport number is present
- ensuring emergency contact details are present
- the generation of a unique student ID, which combines letters from the student's name with a sequential number that is always one more than the highest currently in use
- storing the student details if all requirements are met
- providing a suitable message for Charles so that he knows what is happening.

2 **Tracking Payments**, which involves:

- selecting a student
- displaying the total amount already paid
- entering the payment amount
- displaying the new balance
- the generation of a unique sequential payment ID, which is always one more than the highest currently in use
- storing the payment details
- providing a suitable message for Charles so that he knows what is happening.

3 **Assigning Visit Choices**, which involves:

- selecting a visit
- determining whether places are available
- selecting a student who wishes to be added to the list if there are places available
- storing visit choices
- providing a suitable message for Charles so that he knows what is happening.

4 **Printing Reminders** – A printout of a reminder for those students who have not fully paid including the date, student details, the total amount paid already and the outstanding balance.

The printout will need to look professional and be easy to read.