Edexcel GCE

Applied Information and Communication Technology

Unit 7: Using Database Software

May 2011

Scenario

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

Moreshire School Cinema Club

Charlotte Spencer attends Moreshire School. She enjoys watching films at the cinema. She knows that many other students enjoy the cinema too.

The school runs clubs on Wednesday afternoons. At the beginning of the last school year the students were asked if they had any ideas for new clubs. Charlotte thought a cinema club would be popular. Charlotte's idea was voted one of the top ten and the club has now been running for a year. The club organises group visits to the cinema and collects reviews from the students afterwards.

Charlotte is responsible for the club records. These include details of the films that students have seen, what they thought and their payment records. At the moment these are handwritten and Charlotte keeps losing them or making mistakes. For example, she asks for money from members who have already paid for a film or for a review of a film they have not seen.

This is where you come in. Charlotte knows you are studying ICT and she thinks you would be able to develop an IT-based solution. 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. **Registration**
   Charlotte wants the students to be presented with a registration screen, which will allow them to apply to join. The registration process should include:

   - checking that they are old enough to join
   - the generation of a unique username, 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 member details if all requirements are met. A default password (teapot) should be set
   - displaying messages to the user so they know what is happening.

2. **Login**
   Charlotte wants the members to be able to log in. Only some aspects of the login process will be implemented in this prototype version. The login process should include:

   - members entering their username and password
   - checking that the username and password are valid
   - a warning if the default password has not been changed
   - a successful login message if the details are present and valid.

3. **Tracking payments**
   This is a task of Charlotte's. The members have to pay £10 for each film and Charlotte collects the money. Members can make more than one payment per film if they want to spread the cost but the payments must be between £3 and £10. The payment tracking process should include:

   - selecting a member and film
   - entering the amount paid
   - automatically assigning the payment date
   - storing the payment details
   - providing a suitable message for Charlotte so that she knows what is happening.

4. **Printing film reviews**
   Charlotte should be able to print film review reports.