

11 A social networking site uses a database to store the details of the people who have joined the site.

(a) Describe what is meant by a database.

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..... [2]

(b) When a person joins the website, they need to enter some personal data which is validated using rules. For example, the date of birth must be in the past.

State **one** rule that could be used when validating each of the following.

Email address

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Gender

.....
.....

Password

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..... [3]

(c) Each user can upload several pictures. Each picture has a date and a comment.

The personal data of users is stored in a table called USER. The data about the pictures is stored in a separate table called PICTURE.

Explain why the data about the pictures should be in a separate table, and how the tables can be linked.

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..... [4]