Save My Exams

A Level · OCR · Computer Science

🕐 7 mins   ❓ 4 questions

Exam Questions

3.2 Databases

Relational Databases / Data Normalisation / Entity Relationship Diagrams / Capturing, Selecting, Managing & Exchanging Data / SQL / Referential Integrity / Transaction Processing

Total Marks   **/7**

1 The database supports ACID transactions. ACID stands for Atomicity, Consistency, Isolation and Durability.

Give one way that durability can be achieved for a completed transaction.

....

(1 mark)

2 **Give one disadvantage** of using record locking.

....

(1 mark)

3 OCR Insurance uses a computer system to calculate the price that customers pay for car insurance.

Customers' details are stored in the flat file database table Customer

Describe one problem that would arise with the flat file database structure if a customer wanted to insure more than one car at the same time.

....

....

(2 marks)

4 **Explain** how record locking can be used to ensure that the ACID principle of isolation is achieved when carrying out multiple transactions.

....

....

....

(3 marks)