

**AQA Computer Science A-Level**  
**4.10.5 Client server databases**  
Past Paper Mark Schemes

## Specimen Paper 2

<b>09</b>	<b>7</b>	<p><b>All marks AO1 (understanding)</b></p> <p><b>Problem Conditions (1 mark):</b></p> <p>When two users try to update the <u>same record</u> simultaneously;</p> <p><b>How dealt with (2 marks):</b></p> <p><u>Alternative 1 - Record Locks</u></p> <p>Maintain information about which records are currently being accessed; When a user tries to access a record, consult this information and only permit access if record is not currently being used // only permit read access to a record that is already open;</p>	<b>3</b>
		<p><u>Alternative 2 - Transaction Queuing</u></p> <p>Updates / database changes are (grouped as transactions and) queued; Database software processes transactions in FIFO order from queue;</p> <p><b>Award 1 mark for 'use of record locks' if no other marks awarded for how dealt with.</b></p>	