

9. Cara runs a private tutoring company for Computing Science students.

Cara requires a relational database to:

- store data on students, tutors and sessions
- display the contact details for a particular tutor or student
- display the number of sessions for a particular date
- display the total fees that each tutor has been paid
- display the tutor who charges the lowest hourly rate.

(a) State one functional requirement of the relational database.

1

(b) Cara has created a relational database that uses three tables.

Student	Tutor	Session
<u>studentID</u>	<u>tutorID</u>	<u>sessionID</u>
studentName	tutorName	sessionDate
studentAddress	tutorAddress	sessionTime
studentContactNo	tutorContactNo	duration
	hourlyRate	tutorID*
		studentID*

Draw an entity-relationship diagram to show the relationships that exist in this database.

Your answer should show the entity names and cardinality. Attributes are not required on the diagram.

2

