

## 3.7 Relational databases and structured query language

### 3.7.1 Relational databases

Content	Additional information	Chk
Explain the concept of a database.		
Explain the concept of a relational database.		
Understand the following database concepts: <ul style="list-style-type: none"> <li>• table</li> <li>• record</li> <li>• field</li> <li>• primary key</li> <li>• foreign key</li> </ul> Understand that the use of a relational database facilitates the elimination of data inconsistency and data redundancy	The terms given here will be used when describing abstract databases.	

### 3.7.2 Structured query language (SQL)

Content	Additional information	Chk
Be able to use SQL to retrieve data from a relational database, using the commands: <ul style="list-style-type: none"> <li>• SELECT</li> <li>• FROM</li> <li>• WHERE</li> <li>• ORDER BY...ASC or DESC</li> </ul>	Exam questions will require that data is extracted from no more than two tables for any one query.	
Be able to use SQL to insert data into a relational database using the commands: INSERT INTO table_name (col1, col2...) VALUES (val1, val2...)		
Be able to use SQL to edit and delete data in a database using the commands: UPDATE table_name SET col1 = val1, col 2=val2... WHERE condition  DELETE FROM table_name WHERE condition		