AQA Computer Science GCSE
3.7.1 Relational Databases

Flashcards

What is a database?

What is a database?

A structured collection of data that can be stored, searched, and updated.

What is a table in a database?

What is a table in a database?

A structure that holds related data in rows and columns, like a spreadsheet.

What is a record?

What is a record?

A row in a table - represents one complete set of data about a single item.

What is a field?

What is a field?

A column in a table – stores one type of data (e.g. name, ID).

What is a primary key?

What is a primary key?

A field that uniquely identifies each record in a table.

What is a foreign key?

What is a foreign key?

A field in one table that links to a primary key in another table.

Why are primary keys important?

Why are primary keys important?

They ensure each record is unique and help link tables.

What is a relational database?

What is a relational database?

A database with multiple related tables that are linked together using keys.

Name two advantages of relational databases.

Name two advantages of relational databases.

Eliminates data inconsistency and data redundancy.

What does a foreign key help with?

What does a foreign key help with?

Creating a relationship between tables.

Can a table have more than one foreign key?

Can a table have more than one foreign key?

Yes - it can link to multiple other tables.

True or false: a primary key can only ever be formed from one field type.

True or false: a primary key can only ever be formed from one field type.

False - it is possible to combine field types to form what is called a composite primary key.