



Year 5 Databases

Key Learning

- To understand what a database is.
- To design and create a database.
- To build queries to find information.
- To solve problems using a database.

Key Resources



2Investigate

Key Vocabulary

Condition

A condition is a rule you give to a database to help it find the right information.

Filter

Filtering what information is shown according to any filter rules applied.

Query

A user will run a query to find specific information in a database.

Data

A set of facts or information that help us learn something or make decisions.

Group

Putting similar pieces of information together in a database so it is easy to read and understand.

Record

A collection of related data or information that is stored together as a single unit.

Database

A set of data that can be held in a computer in a format that can be searched and sorted for information.

Linked Tables

A database can contain more than one table which can be linked together so a query can include information from the linked tables.

Sort

Organising data by a rule such as alphabetical or numerical.

Edit

To change, add or remove data from a record.

Validation

A field can have specific data types such as numbers, letters, dates and times which helps minimise input errors.

Field

A heading in a database record against which data is entered.

Operator

An operator tells a database what to do with data when someone is making a query. Such as: Find everyone whose score 'is equal to' 10.



Year 5

Databases

Key Images

 Add record

Add record



Edit record



View mode

 Update Query

Create query



Database Design

 Report

Report

Key Questions

What do databases help us do?

Databases help organise data into one place. Data can be added, stored and retrieved by more than one person. When data is retrieved it can be combined to form information that someone might wish to find out. It is much quicker, more convenient and can be used by many people.

What does a record contain?

A record contains fields of data that form information about something or someone. A database will contain lots of records. For example, a database record could be a record on one child at a school that has fields: name, age and class.

How can errors be kept to a minimum when entering data into a database?

Fields can have the data types entered into them set. Additionally, constraints such as always required or has options can be used.

What is a query?

A query is the word used instead of question when using databases. Someone will create a query to find the answer to something they want to know.

What does the AND operator help someone do?

The AND operator joins rules (conditions) together. Using AND means all the conditions have to be met. AND helps someone find specific information (records).

Why might a database need more than one table?

It can get very messy and confusing for users of a database if all data is kept in one table. For example, a vet surgery might need a table on the pets and a separate table on the customers.