

Prior Learning: to understand that ICT can be used to store and sort information, to add a record to a file in a database, to produce bar charts from a database, to sort and classify information using a database.

Facts

1. **Searching a database**

- You can run queries to filter your data.

| ID | Name | Age | Eye Colour | Hair Colour | Click to Add |
|-------|------------------|-----|------------|-------------|--------------|
| 1 | Emma Jones | 10 | Blue | Brown | |
| 2 | Samuel Smith | 10 | Blue | Blonde | |
| 3 | Thomas Peters | 11 | Brown | Blonde | |
| 4 | Heather Hague | 10 | Blue | Red | |
| 5 | Bobby Williams | 11 | Green | Black | |
| 6 | Samantha Rowling | 10 | Green | Brown | |
| 7 | Harry Weasley | 11 | Blue | Black | |
| 8 | April Milner | 11 | Brown | Brown | |
| 9 | Louise Roberts | 10 | Green | Red | |
| 10 | Amy Dalton | 10 | Blue | Blonde | |
| (New) | | | | | |

- For example, you might want to know how many children in the group have brown hair. You can make a query to find out that information. When you run the query it will then filter the data down to show you the selected fields.

| Field: | Name | Hair Colour |
|-----------|-------------------------------------|-------------------------------------|
| Table: | Children | Children |
| Sort: | | |
| Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Criteria: | | Brown |
| or: | | |

| Name | Hair Colour |
|------------------|-------------|
| Emma Jones | Brown |
| Samantha Rowling | Brown |
| April Milner | Brown |
| * | |

Vocabulary

- Survey—a research method used for collecting data from a pre-defined group of individuals.
- Questionnaire—a set of printed or written questions with a choice of answers.
- Data collection—the process of gathering and measuring information on variables of interest.

2. **'OR' searches**

- You can run more complex searches on your database by using the 'or' function in your design wizard.

| Field: | Name | Hair Colour | Eye Colour |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|
| Table: | Children | Children | Children |
| Sort: | | | |
| Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Criteria: | | "Brown" | |
| or: | | | Blue |

- When the query is run, it will pull out all of the children who have brown hair OR who have blue eyes.

| Name | Hair Colour | Eye Colour |
|------------------|-------------|------------|
| Emma Jones | Brown | Blue |
| Samuel Smith | Blonde | Blue |
| Heather Hague | Red | Blue |
| Samantha Rowling | Brown | Green |
| Harry Weasley | Black | Blue |
| April Milner | Brown | Brown |
| Amy Dalton | Blonde | Blue |
| * | | |

3. **'AND' Searches**

- You can also run queries that will filter you data to find a given field AND another.

| Field: | Name | Hair Colour | Eye Colour |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|
| Table: | Children | Children | Children |
| Sort: | | | |
| Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Criteria: | | "Brown" | "Blue" |
| or: | | | |

- When the query is run, it will pull out all of the children who have brown hair AND blue eyes.

| Name | Hair Colour | Eye Colour |
|------------|-------------|------------|
| Emma Jones | Brown | Blue |
| * | | |