

## Solutions

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### 2.1

- Missing values, duplicates, inconsistent spelling, or impossible entries.

### 2.2

- So another person can understand how the dataset and conclusion changed.

### 2.3

- The missing rows may represent a particular group.
- Removing them can bias what the remaining data describes.

### 3.1

- Identify and remove or merge duplicate records using a stated rule.
- Check negative ages against the source and correct, exclude, or flag them with a recorded reason.
- This removes invalid data from the analysis.
- Documenting each choice makes the conclusion auditable.

### 3.2

- A clear question determines which data and analysis are relevant.
- A chart alone may show an interesting pattern without answering a useful question.
- The project can judge whether its evidence supports the answer.
- This makes the final decision or conclusion more credible.