

# Data Quality Problems

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graph TD; A["Data Quality Problems"] --> B["Single Source"]; A --> C["Multi Source"]; B --> D["Entity Level"]; B --> E["Attribute Level"]; C --> F["Entity Level"]; C --> G["Attribute Level"];
```

## Single Source

### Entity Level

- missing attributes
- unsatisfied constraints
- varying entity nesting

### Attribute Level

- missing values
- misspellings

## Multi Source

### Entity Level

- different degree of normalization
- different formats
- naming conflicts
- structural conflicts

### Attribute Level

- different data types
- conflicting manifestations
- varying wordings
- varying languages
- varying units