**Advanced Calculations for Parent/Child cases**

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**Warning**

These calculations are advanced, and require complex expressions.

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### Retrieve the Case ID of the Parent of the selected case

In a form where a case was selected, the id of that case's parent (if one exists) can be referenced as:

```xml
instance('casedb')/casedb/case[@case_id = instance('commcaresession')/session/data/case_id]/index/parent
```

### Count of all Child Cases

You may want to get a count of all the open child cases that a specific parent case has. The expression you should use is:

**In a form:**

```xml
count(instance('casedb')/casedb/case[index/parent = instance('commcaresession')/session/data/case_id][@status = 'open'])
```

**In a form display condition:**

```xml
count(instance('casedb')/casedb/case[index/parent = @case_id][@status = 'open'])
```

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### Displaying Only Parents with Child Cases

In a case list, if you'd like to filter the case list to only show parents that have open child cases, use the following expression:

```xml
count(instance('casedb')/casedb/case[index/parent = @case_id][@status = 'open']) >= 1
```

*Note: both of these expressions will only work if both parent and all child cases are owned by the mobile worker that is in use.*