

# QQQ Reports

QQQ can generate reports based on [QQQ Tables](#) defined within a QQQ Instance. Users can run reports, providing input values. Alternatively, application code can run reports as needed, supplying input values.

## Report Meta Data

Reports are defined in a QQQ Instance by defining a **QReportMetaData** object, which consists of the following properties:

- **name** - **String, Required** - Unique name for the report within the QQQ Instance.
- **label** - **String** - User-facing label for the report, presented in User Interfaces. Inferred from **name** if not set.
- **processName** - **String** - Name of a [QQQ Process](#) used to run the report in a User Interface.
- **inputFields** - **List of QFieldMetaData** - Optional list of fields used as input to the report.
  - The values in these fields can be used via the syntax `${input.NAME}`, where **NAME** is the **name** attribute of the **inputField**.
  - For example:

```
// given this inputField:  
new QFieldMetaData("storeId", QFieldType.INTEGER)  
  
// its run-time value can be accessed, e.g., in a query filter under a data source:  
new QFilterCriteria("storeId", QCriteriaOperator.EQUALS, List.of("${input.storeId}"))  
  
// or in a report view's title or field formulas:  
.withTitleFields(List.of("${input.storeId}"))  
new QReportField().withName("storeId").withFormula("${input.storeId}")
```