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App Building Best Practices

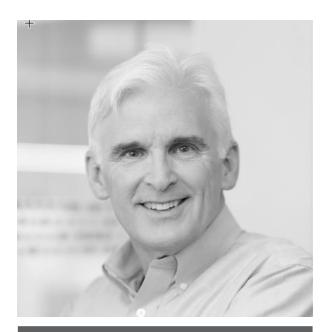
Formulas and Form Rule Use Cases

Kirk Trachy, QuickBase - Sales Engineer Craig McElroy, J. Lodge - Database Director

Agenda

How to use Formulas and Form Rules to solve day-to-day workflow challenges

- 1 Explore 17 Formulas
- 2 Use 6 Form Rules
- (3) Test them
- 4 See how they work
- 5 Discuss best practices





KIRK TRACHY

SALES ENGINEER INTUIT QUICKBASE

Long time QuickBase Evangelist and Sales Engineer. Kirk joined QuickBase in 2005 and hosts daily webinars about how to make the best of your QuickBase applications. Kirk is often heard saying, "You can do anything with QuickBase." and "If you can say it you can do it". Kirk has a broadcasting background having worked with CBS and Westinghouse Radio. Kirk lives in Stratham, NH and enjoys a large family, technology, computers and flying. Oh, he has a passion for wanting to live simply in a very tiny house.

SESSIONS I'M PARTICIPATING IN:

Mastering Form Rules and Formulas



CRAIG MCELROY

DATABASE DIRECTOR, J. LODGE, LLC

Craig has served in the database department at J. Lodge for over 6 years. During this time, he has built over 100 applications in QuickBase, managing tens of applications concurrently. In addition to application development, Craig has also provided administrative services to over 1000 users among a variety of clients for J. Lodge.

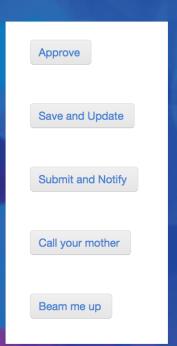
J. Lodge delivers premier contact center services to a variety of industries based in the United States.

SESSIONS I'M PARTICIPATING IN:

Mastering Form Rules and Formulas

Benefits of Buttons and Form Rules

- 1 Automate complex processes
- 2 Provide custom user experiences
- 3 Ease new user adoption
- 4 Save training time
- Simplify use



Ten Buttons (Get "Magic Buttons" From Exchange)

1) Change status

- 6) Show/Hide Project Section
- 2) Change status then dashboard
- 7) Change to a different form

3) Check a checkbox

- 8) Assign to self
- 4) Check / Uncheck checkbox dr
- 9) Create a project snapshot
- 5) Check / Uncheck checkbox er
- 10) Edit record and return

1. Change status to completed then dr

Formula URL Button

```
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"&_fid_28=Completed" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=dr&rid=" & [Record ID#])
```

Press the button and change status to "Completed" and then redirects to dr.

2. Change status to completed then dashboard

Formula URL Button

```
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" & "&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"&_fid_28=Completed" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid())
```

Press the button and change the status to "Completed". Then redirects to dashboard.

3. Check a checkbox then dr

Formula URL Button

```
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" & "&rid=" & [Record ID#]& "&apptoken=d9eascudwjxs2sesxkjccwgtq9r"& "&_fid_101=1" & "&rdr=" & URLEncode(URLRoot() & "db/" & Dbid() & "?a=dr&rid=" & [Record ID#])
```

Press the button and this changes the "Checkbox" to checked.

4. Check / Uncheck a checkbox then dr

Formula URL Button

```
If([Checkbox]=false,URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 101=1" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=dr&rid=" & [Record ID#])
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 101=0" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=dr&rid=" & [Record ID#]))
```

Press to check "Checkbox".

Press again and uncheck "Checkbox".

Left in display mode dr.

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5. Check / Uncheck a checkbox then er

Formula URL Button

```
If([Checkbox]=false,URLRoot()& "db/" &Dbid()& "?a=API EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 101=1" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=er&rid=" & [Record ID#])
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 101=0" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=er&rid=" & [Record ID#]))
```

Press to check "Checkbox".

Press again and uncheck "Checkbox".

Left in display mode er.

6. Show/Hide Project Section then dr

Formula URL Button

```
If([Show Project Section]=false,URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 105=1" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=dr&rid=" & [Record ID#])
URLRoot()& "db/" &Dbid()& "?a=API EditRecord" &
"&rid=" & [Record ID#]&
"&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
"& fid 105=0" &
"&rdr=" &
URLEncode(URLRoot() & "db/" & Dbid() &
"?a=dr&rid=" & [Record ID#]))
```

Uses formula URL to check and uncheck a checkbox that triggers a form rule to show/hide a form section.

7. Change to a different form dr

Formula URL Button

URLRoot() & "db/" & Dbid() & "?a=dr&rid=" & [Record ID#]& "&dfid=13"

When pressed this will display the record you are already on but with an alternate form (dfid=13).

8. Assign to self then dr

Formula URL Button

```
URLRoot() & "db/" & Dbid() & "?a=API_EditRecord"& "&AppToken=d9eascudwjxs2sesxkjccwgtq9r"& "&rid="& [Record ID#]& "&_fid_97=" & URLEncode(User()) & "&rdr=" & URLEncode(URLRoot() & "db/" & Dbid() & "?a=dr&rid=" & [Record ID#])
```

Press a button and assign yourself as "Project Manager.

9. Create a project snapshot then dr

Formula URL Button

```
URLRoot()& "db/" &[_DBID_PROJECT_SNAPSHOTS]& "?a=API_AddRecord" &
    "&apptoken=d9eascudwjxs2sesxkjccwgtq9r"&
    "&_fid_6=" & [Project Name]&
    "&_fid_7=" & [Status]&
    "&_fid_8=" & [Priority]&
    "&_fid_9=" & [Est Start Date]&
    "&_fid_10=" & [Est End Date]&
    "&rdr=" &
    URLEncode(URLRoot() & "db/" & Dbid() &
    "?a=dr&rid=" & [Record ID#])
```

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10. Edit record and return to starting point

Formula URL Button

```
var text url=
```

```
URLRoot()& "db/" &Dbid()& "?a=API_EditRecord" & "&rid=" & [Record ID#]& "&apptoken=d9eascudwjxs2sesxkjccwgtq9r"& "&_fid_28=Completed";
```

```
"javascript:" &
"$.get("" &
$url &
"',function(){" &
"location.reload();"&
"});" &
"void(0);"
```

This formula sets a variable called url with an API_EditRecord and changes fid_28 to Completed.

The bottom of this formula then calls the url and reloads the page from where you came.

That means:

If launched from view form returns to view form
If launched from edit form returns to edit form
If launched from report – returns to report
If launched from dashboard- returns to dashboard

This formula is a derivation of a formula originally published in the community forum by QuickBase Solution Provider: Mark Shnier, Your QuickBase Coach, http://www.yourquickbasecoach.com.

Craig McElroy

J. Lodge
Database Director
Resident QuickBase Guru



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12 Form and Formula use cases

1)	Form Rule: Hide	7)	Formula to check conditions to apply fields
2)	Form Rule: Unrequire	8)	Formula for Fiscal Periods
3)	Form Rule: Clear (or Change to Blank)	9)	Formula for Trending Percentage
4)	Form Rule: Current Time and Current User	10)	Formula for Tagging records for Locks
5)	Form Rule: Abort Save	11)	Formula for Tagging records for Emails
6)	Formula to check conditions to abort save	12)	Formulas for Archiving Records

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Form Rule: Hide

Hide fields that are not needed on your forms based on conditional logic!

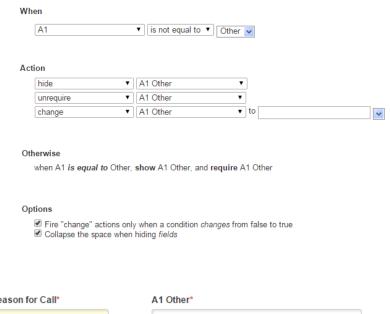


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Form Rule: Unrequire

Require and Unrequire fields to make sure data is captured ONLY when you want it!

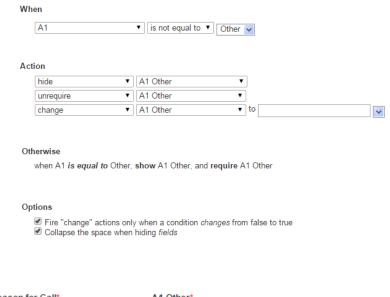


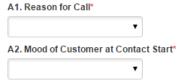




Form Rule: Clear

Change field to blank when it is hidden so that it does not capture unwanted data.

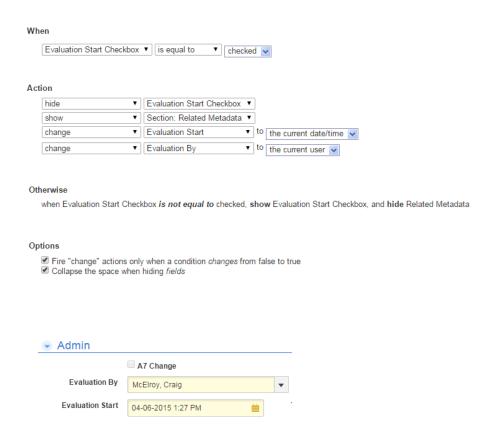






Form Rule: Current Time and Current User

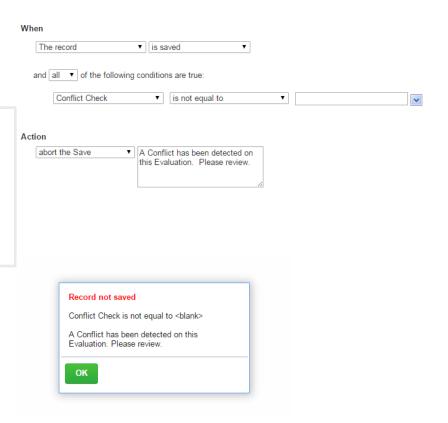
Use <u>Change</u> rules to select user and date. This way they can be edited afterward as needed.



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Form Rule: Abort Save

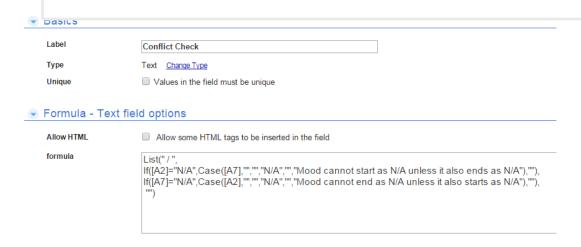
Prevent records from being saved to your application when certain conditions occur or do not occur.



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Formula to check conditions to abort save

Use a List formula in conjunction with If/Case formulas to trigger events which abort the saving of conflicts.



Formula to check conditions to apply fields

Use a Case formula to cause a checkbox to be true or false, which determines when fields are applicable.



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Formula for Fiscal Periods

Format custom date ranges to sort alphanumerically, while also being clear on the range of dates included.

	All
Fiscal Period	Number of Evaluations
2015-02-22 to 2015-03-21	4
2015-03-22 to 2015-04-21	1
Totals (2 groups)	5

Formula - Text field options Allow some HTML tags to be inserted in the field Day(ToDate([Evaluation Date]))<=22, Case(Month(ToDate([Evaluation Date])). 1.(Year(ToDate([Evaluation Date]))-1)&"-12-22 to "&Year(ToDate([Evaluation Date]))&"-01-21", 2, Year(ToDate([Evaluation Date]))&"-01-22 to "&Year(ToDate([Evaluation Date]))&"-02-21", 3, Year(ToDate([Evaluation Date]))&"-02-22 to "&Year(ToDate([Evaluation Date]))&"-03-21", 4, Year(ToDate([Evaluation Date]))&"-03-22 to "&Year(ToDate([Evaluation Date]))&"-04-21", 5, Year(ToDate([Evaluation Date]))&"-04-22 to "&Year(ToDate([Evaluation Date]))&"-05-21", 6, Year(ToDate([Evaluation Date]))&"-05-22 to "&Year(ToDate([Evaluation Date]))&"-06-21", 7.Year(ToDate([Evaluation Date]))&"-06-22 to "&Year(ToDate([Evaluation Date]))&"-07-21", 8.Year(ToDate([Evaluation Date]))&"-07-22 to "&Year(ToDate([Evaluation Date]))&"-08-21", 9.Year(ToDate([Evaluation Date]))&"-08-22 to "&Year(ToDate([Evaluation Date]))&"-09-21", 10.Year(ToDate([Evaluation Date]))&"-09-22 to "&Year(ToDate([Evaluation Date]))&"-10-21", 11.Year(ToDate([Evaluation Date]))&"-10-22 to "&Year(ToDate([Evaluation Date]))&"-11-21", 12.Year(ToDate([Evaluation Date]))&"-11-22 to "&Year(ToDate([Evaluation Date]))&"-12-21"). Case(Month(ToDate([Evaluation Date])). 1.Year(ToDate([Evaluation Date]))&"-01-22 to "&Year(ToDate([Evaluation Date]))&"-02-21". 2.Year(ToDate([Evaluation Date]))&"-02-22 to "&Year(ToDate([Evaluation Date]))&"-03-21". 3.Year(ToDate([Evaluation Date]))&"-03-22 to "&Year(ToDate([Evaluation Date]))&"-04-21". 4. Year(ToDate([Evaluation Date]))&"-04-22 to "&Year(ToDate([Evaluation Date]))&"-05-21". 5.Year(ToDate([Evaluation Date]))&"-05-22 to "&Year(ToDate([Evaluation Date]))&"-06-21". 6.Year(ToDate([Evaluation Date]))&"-06-22 to "&Year(ToDate([Evaluation Date]))&"-07-21". 7. Year(ToDate([Evaluation Date]))&"-07-22 to "&Year(ToDate([Evaluation Date]))&"-08-21". 8. Year(ToDate([Evaluation Date]))&"-08-22 to "&Year(ToDate([Evaluation Date]))&"-09-21". 9.Year(ToDate([Evaluation Date]))&"-09-22 to "&Year(ToDate([Evaluation Date]))&"-10-21". 10.Year(ToDate([Evaluation Date]))&"-10-22 to "&Year(ToDate([Evaluation Date]))&"-11-21". 11. Year(ToDate([Evaluation Date]))&"-11-22 to "&Year(ToDate([Evaluation Date]))&"-12-21". 12.Year(ToDate([Evaluation Date]))&"-12-22 to "&ToText(Year(ToDate([Evaluation Date]))+1)&"-01-21"))

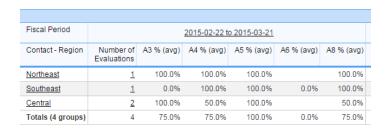
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Allow HTMI

formula

Formula for Trending Percentage

Use a Case formula to trend percentage of occurrences, excluding results which are not applicable.





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Formula for Tagging records for Locks

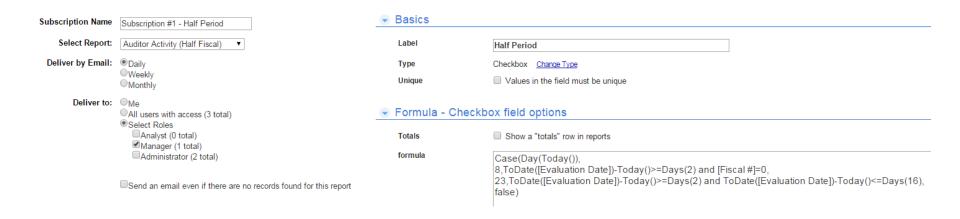
Use a formula to select records which can or cannot be modified by certain user roles.

Basics



Formula for Tagging records for Emails

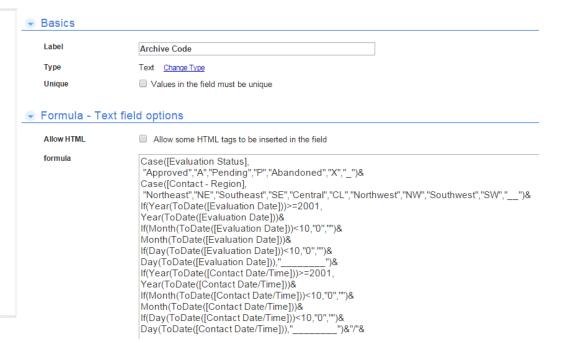
Use a Case formula to show records in a report only on the days in which you want the report to be emailed.



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Formulas for Archiving Records

Convert your records into text strings to store in another table where formula fields extract the original record's results.



Formulas for Archiving Records

Case and Mid formulas are used to convert text string characters into original results.



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Sample Application

https://ilodge.quickbase.com/db/biswdmwdv

Application designed to capture Evaluations.

Entire application designed in less than 5 hours.

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Questions

