Improve Data Quality

Wednesday, October 14, 2015 3:05 PM

- 1. Assess data quality
- 2. Export data
- 3. Cleanse and standardize data
- 4. Enforce data quality
- 5. Push clean data back into Salesforce
- 6. Describe the capabilities of Data.com

Improving data quality is an iterative process:

Assess - Analyze data, Identify problems, Determine next steps

Cleanse - Standardize, Clean, De-duplicate

Maintain - Educate, Enforce

Tools for Processing Data - Connect for Office, Excel Connector, Workbench

- Pull Salesforce reports directly into an Excel worksheet or a Word document.
- Excel connector allows you to query, update, insert, and delete Salesforce data from within excel
 - You can download at developer.force.com
- Workbench (web-based tool that allows admins + developers to interact with their Salesforce organization using the Force.com APIs) allows you to query, update, insert, and delete Salesforce data from a website.
 - o It can be used to import and export data that needs to be cleansed and standardized.
 - o Available at developer.force.com

Data Quality Dashboards can be used to measure data quality

Specify which critical fields should be used to measure data quality.

'Data Quality Score' formula field calculates a score based on whether or not the specified fields contain data.

Assess a score for each critical field. It's a good Idea to display a text showing successful data.

Making Fields Required

| Method | Description |
|--|--|
| Select the Required checkbox when defining a custom field. | Defines the field as universally required, which means the field must have a value when a record is saved within Salesforce, web-to-lead/web-to-case, or the Force.com API. |
| Set the field to Required on page layout. | Requires that the field must have a value when a record is saved from the edit page for that page layout. |
| Validation rule | Verifies that the data in one or more fields meets the specified criteria before the record is saved within Salesforce, web-to-lead/web-to-case, or the Force.com API. |

Picklist and dependent picklist fields-Force users to enter a permissible value.

Custom lookup fields and lookup filters-Select a subset of records and enforce data consistency.

Custom formula fields-Derive values from other fields and prevent redundant data.

Record types and page layouts-Display only relevant fields and reduce unnecessary data.

Workflow field updates-Automatically update field values and reduce manual entry.

Inconsistent Data Formatting

Enforcing Postal Code Formatting to make Postal Codes sure postal codes are correct. You can do this using REGEXes.

Lead Validation Rule

Error Condition Formula:

```
( Country = "United States" ) &&
NOT( ISBLANK( PostalCode)) &&
NOT( REGEX( PostalCode, "[0-9]{5}(-[0-9]{4})?") )
```

Error Message:

Postal code must be in 99999 or 99999-9999 format.

Function Guide:

REGEX (Text, RegEx_Text) = Compares a text field to a regular expression and returns TRUE if there is a match.



A regular expression is a string used to describe a format of a string according to certain syntax rules.

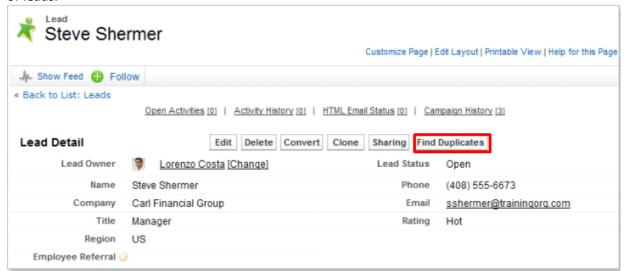
| Regular Expression Constructs | What Does It Match? |
|-------------------------------|---|
| [ab] | A single character, either a or b |
| [a-zA-Z] | A single uppercase or lowercase character |
| \\d | A digit |
| \\s | A whitespace character |
| X? | Zero or one occurrence of X |
| X* | Zero or more occurrences of X |
| X+ | One or more occurrences of X |
| X{n} | Exactly n occurrences of X |

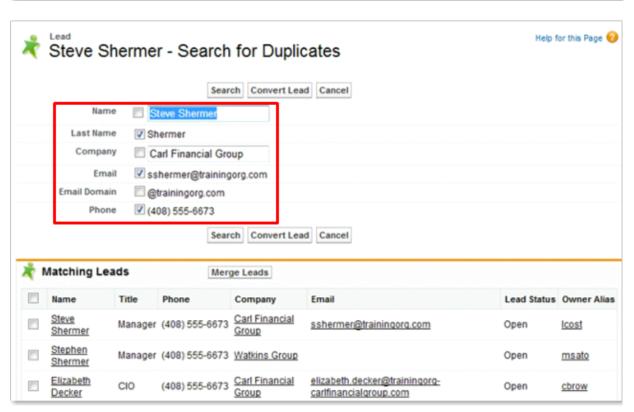


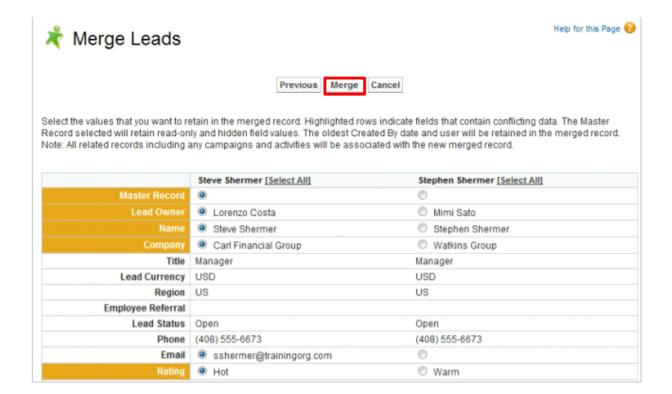
Regular expression syntax is based on Java Platform SE 6 syntax. However, backslash (\) must be changed to double backslash (\).

Duplicate Records

You can **merge duplicates using the Merge Wizard**. You can merge up to three accounts, contacts, or leads.





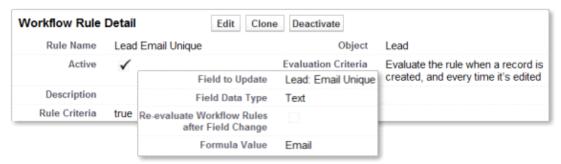


Use a custom field and a workflow field update to enforce uniqueness of a standard field, such as lead email address, and thus prevent duplicates.

1. Create a unique custom field to shadow a standard field.

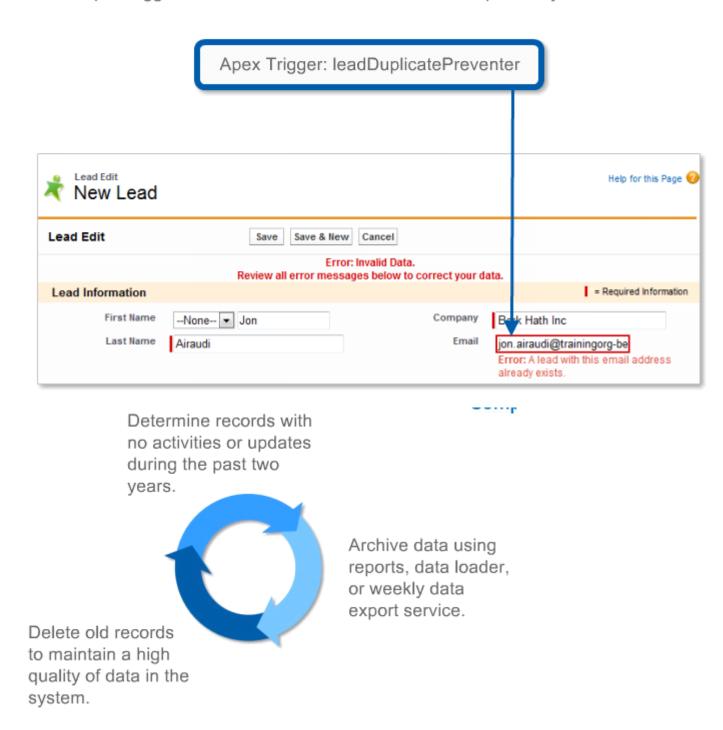


Use a workflow field update to set its value to the field you are shadowing.



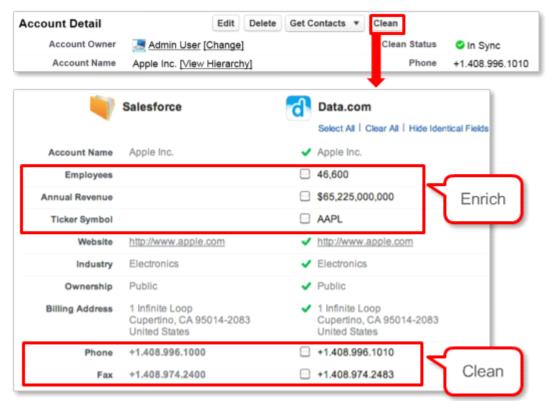
Use Data Loader to set the Email Unique field for existing leads.

- A developer can build an Apex trigger to prevent a duplicate record from being saved when a lead is created or updated.
- An Apex trigger is code that executes before or after specific system events.



Data.com is an external app that allows admins to clean and enrich their Salesforce records with data from Data.com.

A Data.com License is required for use.



Administrators can schedule automatic clean jobs to:

- Examine Salesforce account, contact, and lead data.
- Flag or overwrite records based on selected preferences.
- Automatically fill in blank values with Data.com fields.

