

Object Fields:

1. Fields are nothing but the columns in the regular database.
2. There are two types of fields.
 - a. Standard Fields
 - b. Custom Fields

3. Standard Fields:

- a. There are the fields created by salesforce.
- b. These fields cannot be deleted.
- c. We can customize the fields
- d. Some of the standard fields are called System fields.

4. System Fields:

- a. There are the fields which are created by salesforce and updated by salesforce .
- b. There are 7 System Fields
 1. ID :
 - a. Salesforce by default creates 18 Character unique Id for every record.
 - b..Salesforce will recognize the record by using this Id
 - c. First Three characters of Id will represent object (Entity Id).
 - d. It is case-sensitive.
 - e. This can also be referred with 15 Digit Id. The conversion from 15 to 18 digit will be handled by the system itself.
 2. isDeleted :
 - a. Whenever we delete any record, value of isDeleted field is set as True.
 - b. When we delete any record it will still be in the object for 15 days.
 - c. After 15 days of time, the records would be permanently deleted.
 3. CreatedById
 - a. This field will store the 18 character Id of the user who created this record.
 4. LastModifiedById
 - a. This field will store the 18 character Id of the user who last modified this record
 5. CreatedDate :
 - a. This field will store date and time when the record was created.
 6. LastModifiedDate :
 - a. This field will store date and time when a user was last modified manually.
 7. SystemModStamp
 - a. This field will store date and time when the record was last modified this record programmatically.

Q: Which fields we call as System Audit Fields?

- a.CreatedById
- b.LastModifiedById
- c.CreatedDate
- d.LastModifiedDate
- e.SystemModStamp

5: Custom Fields:

- a. These are the fields which are created by the user to meet an organizational business requirement.
- b. Salesforce has defined predefined datatypes to create the custom fields
 1. Text :
 - Format : Alphanumeric
 - MaxLength : 255 Characters
 - Single|Multiple : Single Line

2. TextArea:
 - Format : AlphaNumeric
 - MaxLength : 255 Characters
 - Single|Multiple : Multiple Line (more than one line)



3. TextArea(Long) :
 - Format : AlphaNumeric
 - MaxLength : 1,31,072 Characters
 - Default : 32,768 characters
 - Minimum Length : 256 Characters
 - Single|Multiple : Multiple (≥ 2 or ≤ 50)

4. TextArea(Rich) :
 - Format : Formatted Data
 - Max Length : 1,31,072 characters
 - Default Length : 32,768 Characters
 - Minimum Lines : 10 Lines

5. Phone :

This data type is used to store the phone numbers. The data will be formatted

6. CheckBox :

This data types will store the value of true or false

Screen shot from Opportunity Page layout (Private is check box field)



7. Currency :

Currency values are stored in this field.

Max Length : (Length of Integer +Length of Decimal) should be at max 18 characters

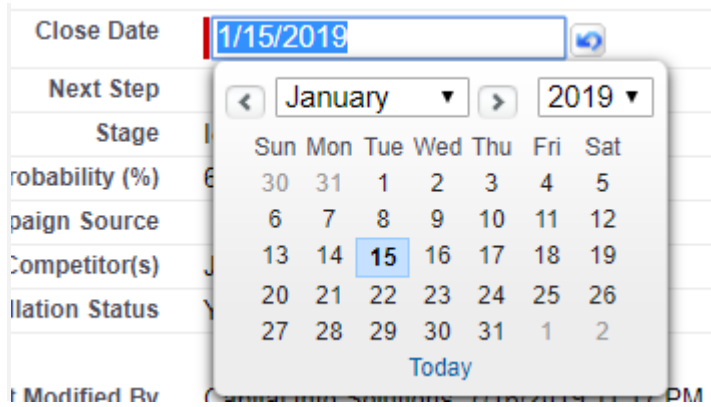
Example : \$32000.20 (5 + 2 = 7)

(Length of this value is calculated as 5 digits before decimal + digits after the decimal 2= 7)

8.Date :

Allows users to enter a date or pick a date from a popup calendar.

For Example:

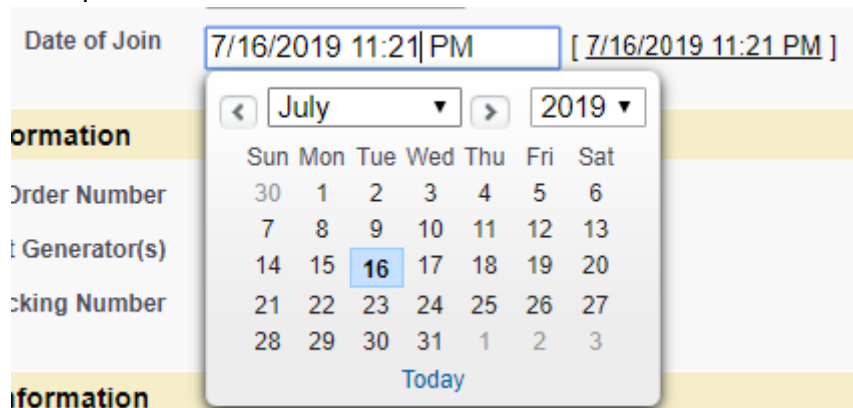


Close Date	1/15/2019
Next Step	January 2019
Stage	
Probability (%)	
Campaign Source	
Competitor(s)	
Qualification Status	
Last Modified By	

9.DateTime :

Allows users to enter a date or pick a date from a popup calendar and enter a time of day.

Example:



Date of Join	7/16/2019 11:21 PM
Information	
Order Number	
Generator(s)	
Tracking Number	
Information	

10. Number :

These fields are used to store numerical values

Max Length : 18 characters (Length of Integer + Length of Decimal)

11. Percent :

These fields are used to store the percentage value by default '%' symbol is appended to the data .

Max Length : 18 characters (Length of Integer + Length of Decimal)

Example:

Probability (%)	60%
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12. Email :

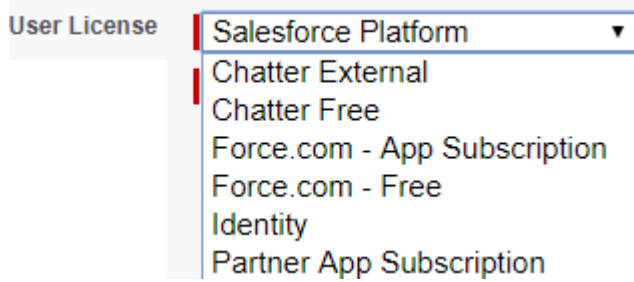
This field will store the email id.

Note : Salesforce has defined validation rules to check the format of the email address.

13. PickList :

- It is a dropdown list from which we can select one option at a time.
- Maximum we can provide 1000 options.
- Length of each option can be 255 characters
- We can sort options in the ascending order.
- We can make the first option as default option by enabling the checkbox.
- We can add /remove/edit /reorder the options based on business requirement.

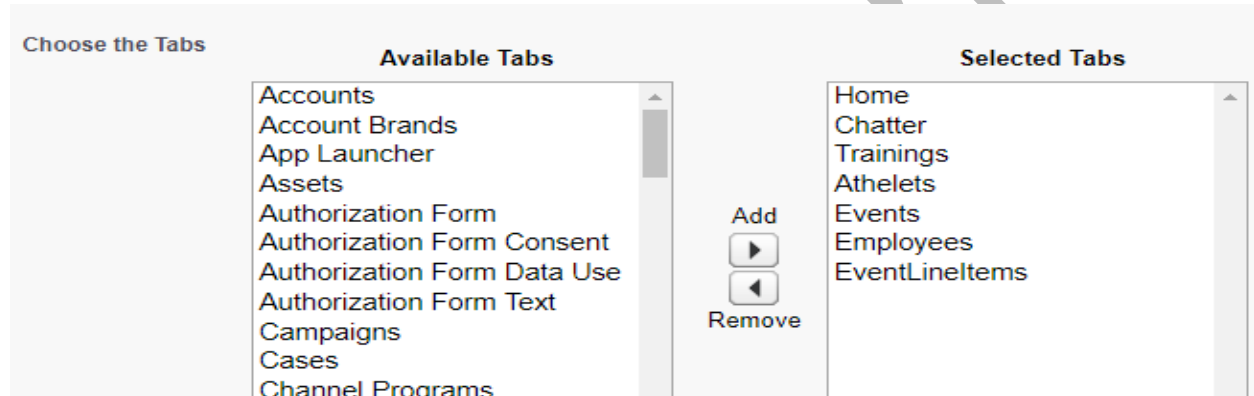
Example: User can pick one value from the list of options as drop down.



14. PickList(Multi-Select) :

- a. It is also a picklist field but we can select more than one option at a time .
- b. We can provide maximum 300 options.
- c. Maximum we select 100 options from 300 options.
- d. Length of each option can be at max 255 characters

Example:



15 .Text Encrypted:

- a. It is used to store sensitive data with masked characters.
- b. Maximum length of the field is 175 characters.
- c. By default no one can access the data in the original format.
- d. Users with permission 'View encrypted data' in profile can only see this data.
- e. Text encrypted fields cannot be used in formulas
- f. Encrypted fields cannot be used in search Criteria or filter Conditions.
- g. Encrypted fields can be used in validations, search results, report results.

16. Auto-Number

- a. Automatically assigns a unique number to each record.
- b. The maximum length of any auto-number field is 30 characters,
- c. 20 of which are reserved for prefix or suffix text.

Example:

E-{00000}{YYYY}{MM}-{0} -> 201704-1

6. Custom Fields Creation

- a. Custom Fields can be created in four ways
 1. Standard Navigation
 2. Schema Builder
 3. Force.com Quick Menu
 4. Metadata SOAP API webservice

b. Standard Navigation

1. Classic

Setup

|--->Build

|---> Create

|---> Object

|--->Object Name

|---> Custom Fields and Relations

|---> New

2. Lightning

Setup

|---> Platform Tools

|---> Objects and Fields

|---> Object Manager

|---> Object Name

|--->Fields and Relation

Step 1: Choose the dataType

Step 2: Enter field Details Like (Label,Name,Required, Unique)

Step 3: Next

Step 4: Next

Step 5: Save

b. Schema Builder

1. Classic

Setup

|--->Build

|--->Lightning Bolt

|--->Schema Builder

2. Lightning

Setup

|--->Platform Tools

|--->Objects and Fields

|--->Schema Builder

Step 1: Choose the Object

Step 2: Choose elements

Step 3: Choose the dataType

Step 4: Enter the details

Step 5: Save

Note : if we create the fields using Schema builder fields are not added to pagelayout.

: We need to manually add the fields to the pagelayout

Setup

|---> Build

|---> Create

|---> Objects

|--->Object Name

|---> PageLayouts

|--->Edit

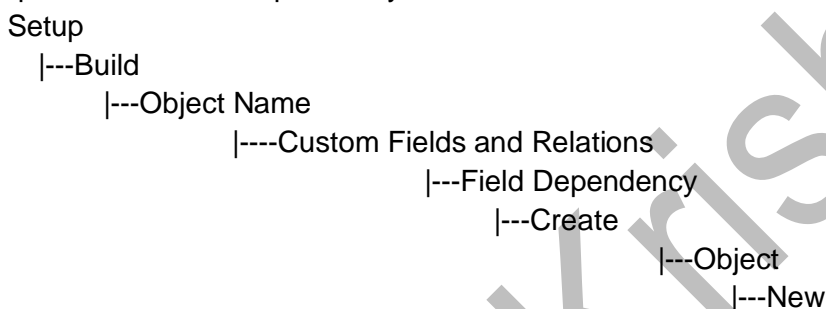
|--->Add the fields

c. Force.com Quick Access Menu

- Step 1: Click on the Tab of the object
- Step 2: Select Force.com Menu
- Step 3: Choose view fields
- Step 4: Select Custom Fields and Relations
- Step 5: Select new and create the fields.

7. Field Dependency:

1. If need to control the values of one field by using another field then we use field dependency.
2. Controlling Field:
 - a. We can choose the any of PickList Field and Checkbox field as controlling field.
 - b. If we choose any picklist field as controlling field, then picklist field can have only 300 options in it.
3. Dependent Field : We can choose PicklIst /MultiSelect PickList field as Dependent field.
4. We can create multilevel dependency.
5. Steps to create field dependency



- Step 1:** Select the Controlling Field
- Step 2:** Choose the Dependent field
- Step 3:** Include and Exclude the dependent options for the Controlling Field.
- Step 4:** Save .

UseCase : Create Two Custom Fields in Training Object

Field Name	Data Type	Options
City	PickList	Hyderabad, Chennai, Bangalore
Places	PickList	SRNagar, LBNagar Chrompet, Tambaram ElectronicCity, Marathahali

Create a field dependency.