What are the uses of custom controller and standard controller?

Q17. What are the Governor Limits?

We know very well we are working on multitenant environment where is all the resources are limited to use in Salesforce.

Max. Number of Master Detail relationships per an object: 2

Max. Number of Relationship Fields per an object: 40

Max number of Roll-up Summary fields per an object: 25

Custom Controller:

Custom controller is an apex class that is used to implement business logic of visualforce page without standard functionality

Standard Controller:

Standard controllers can provide all the functionality you need for a Visualforce page because they include the same logic that is used for a standard page. For example, if you use the standard Accounts controller, clicking a Save button in a Visualforce page results in the same behavior as clicking Save on a standard Account edit page.

Q10. Why we cannot use custom controller for custom object?

What are the collections?

In Salesforce there is 3 type of collection

List

Set

Map

What is the different between List and Set?

List is an order collection and Set is an unordered collection

List has index number and Set doesn’t have index number.

\*\*What are the types of Sandboxes in Salesforce?\*\*

\*\*1. Developer Sandbox\*\*

It copy only configuration from the production environment.

It won’t copy real time data.

We can test the configuration changes with sample data

Sample data limit is 200mb

Refresh time interval is one day

If we refresh all the sandbox contents will be replaced with production contents

\*\*2. Developer Pro Sandbox\*\*

Copy configuration from the production environment.

No real time data

Sample data limit is 1GB

Refresh time interval one day

\*\*3. Partial Data Sandbox\*\*

Copy configuration from the production environment.

Copy certain amount of real time data

Real time data limit is 5GB

For each table it can copy maximum of 10k records

Refresh interval 5 days

4. Full Sandbox

It is exact replica of the production

Copy both configuration and entire real time data from the production

Refresh time interval 29 days

1. What is Apex?

Ans: Apex is an object-oriented programming language that allows developers to execute flow and transaction control statements on the Force.com platform server.

Apex enables developers to add business logic to most system events, including button clicks, related record updates, and Visual force pages.

2. In which sequence Trigger and automation rules run in Salesforce.com The following is the order salesforce logic is applied to a record.

1. Old record loaded from database (or initialised for new inserts)

2. New record values overwrite old values

3. System Validation Rules

4. All Apex “before” triggers (EE / UE only)

5. Custom Validation Rules

6. Record saved to database (but not committed)

7. Record reloaded from database

8. All Apex “after” triggers (EE / UE only)

9. Assignment rules

10. Auto-response rules

11. Workflow rules

12. Escalation rules

13. Parent Rollup Summary Formula value updated (if present)

14. Database commit

15. Post-commit logic (sending email)

Additional notes: There is no way to control the order of execution within each group above.

3. If one object in Salesforce have 2 triggers which runs “before insert”. Is there any way to control the sequence of execution of these triggers?

Ans : Salesforce.com has documented that trigger sequence cannot be predefined. As a best practice create one trigger per object and use comment blocks to separate different logic blocks. By having all logic in one trigger you may also be able to optimise on your SOQL queries.

4. How to delete the User from Salesforce?

Ans : As per now, salesforce does not allow to delete any user, however you can deactivate the user.

Read further…

23. How to delete the users data from Salesforce?

Ans : To delete the Users Data go to Setup | Administration Setup | Data Management | Mass Delete Record, from there select the objects like Account, Lead etc and in criteria select the users name and delete all records of that user related to particular object.

24. How to restrict the user to see any record, lets say opportunity?

Ans : set up opportunity sharing to be private. If both users are admins or have view all records on opportunity, then that overrides private sharing.

25. What is the difference between trigger.new and trigger.old in Apex – SFDC?

Ans :

Trigger.new :

Returns a list of the new versions of the sObject records.

Note that this sObject list is only available in

insert

and

update

triggers, and the records can only be modified in

before

triggers.

Trigger.old :

Returns a list of the old versions of the sObject records.

Note that this sObject list is only available in

update

and

delete

triggers.

26. How to restrict any Trigger to fire only once ?

Ans:

Triggers can fire twice, once before workflows and once after workflows, this is documented at

<http://www.salesforce.com/us/developer/docs/apexcode/> Content/ apex\_triggers\_order\_of\_execution.htm:

“The before and after triggers fire one more time only if something needs to be updated. If the fields have already been set to a value, the triggers are not fired again.”

Workaround:

Add a static boolean variable to a class, and check its value within the affected triggers.

1

public class HelperClass {

2

public static boolean firstRun = true;

3

}

4

trigger affectedTrigger on Account (before delete, after delete, after undelete) {

5

if(Trigger.isBefore){

6

if(Trigger.isDelete){

7

if(HelperClass.firstRun){

8

Trigger.old[0].addError('Before Account Delete Error');

9

HelperClass.firstRun=false;

}

}

}

13

}

27. What is difference between WhoId and WhatId in the Data Model of Task ?

Ans :

WhoID refers to people things. So that would be typically a Lead ID or a Contact ID

WhatID refers to object type things. That would typically be an Account ID or an Opportunity ID

Check Data Model of task here

28. Where is the option of the report for the “Custom Object with related object” and what are the condition to generate related reports?

Ans :

If the parent object is the standard object provided by the salesforce like “Account”, “Contact” then the report will be in there section with related custom object.

If both objects are the custom then the report will be in “Other Reports” Sections.

Following are the conditions to get the report of related objects:

· On both the objects, Reports option must be enable.

· The relationship between both of them must be “Master – detail relationship”.

Read this article, to get detailed idea on this topic.

29. How you can provide the User Login (Authentication) in Public sites created by Salesforce.

Answer : We can provide the authentication on public sites using “Customer Portal”.

This part of the interview question mainly focus on the dynamic Apex feature of the salesforce.com .

30 : What is the dynamic Apex?

Q.What all comes under SFDC implementation?

1. What is the difference between sales force CRM tool and other CRM tools?

No need to maintain servers.

No need to maintain DB.

We can reduce the cost for designing applications in terms of recruiting staff.

It is having the advantage of “cloud computing” technology. (Background technology in sales force CRM tool is “CLOUD COMPUTING”).

Customization is interesting thing in SFDC platform.

No software & it’s a matter of just having Internet connection and having user name & password in SFDC platform.

2. What are the admin roles in SFDC?

Mahesh u said like no need to maintain DB & servers in this SFDC platform. So without these, what kind of roles should admin taking care in this SFDC……!

3. Can u explain how cloud computing will be useful in this CRM tool apart from other CRM tools?

4. What do you know about TABS in the sales platform of SFDC?

Functionality of the all tabs in SFDC are same and object only will change in each perspective tab. Almost all tabs are similar.

5. What do u know about chatter tab in SFDC?

Whatever the functionalities done by you in facebook, same functionalities are integrated into the chatter tab. You can share about your status, account information & links. Other users can write a comment on your link. You can see the latest updates from every user in your company and also you can see your followers, groups, your contact information and about yourself. You know everything here is customizable, so you can edit whatever you want in this window.Chatter app in SFDC available as WEB APPLICATION & DESKTOP APPLICATION.

6. What do you know about campaign tab in SFDC?

It shows the all your campaigns and campaigns conducted by others in the company and also you can sort out the campaigns by using filter logic. Here in this based on different filed values like status, owner first name, start date, and end date, you can sort out the campaigns.

You can have use normal & complex operations (AND, OR

operations). BY using “customizable view” we can see the records in whatever way you want.Also having the options like “displaying the wanted fields” and “restricted the visibility” to users.

7. What do you know about layouts in SFDC platform?

It is having Page layout, lookup page layout and mini page layout. Page layout is nothing but showing the frontend page information. By using the lookup layout we can set the parental account for the present creating record and also it is customizable. Finally mini layout is nothing but short information about any existing record, which we can see if moving the mouse pointer on to it.

8. What do you know about related lists in SFDC?

We are having some hover links on top of the page. Those are nothing but related lists. Here in SFDC we are having relationship in between 2 or more tables. Suppose taking an example like a university, for which we need to business for library. So we should have to talk with librarian for knowing the library needs. So we can build the applications regarding the information given by librarian. So here college can stay without librarian but librarian cannot stay without library. So if there is an account, it should have the contact account. That particular account will have the contact information. This is the relationship in SFDC records.

Set Up / App Set Up / Customize:

Q9. What do you know about “customize” tab under APP setup?

A: By using this we can, Rename Tabs & labels under customize tab, user’s can be able to change the language and rename the tabs with respect to all header tabs in sales environment.

Q 10. What do you know about “home” tab under Customize?

A: By using this tab we can edit the home page layout as we wish, by using “custom links”, “home page components” and “home page layout’s”.

Procedure to change home page layout: first of all create “custom components” in “home page components”. So for creating custom components, first of all users should create “custom links”, and then add these custom links to custom components. These custom links navigate users to particular websites.

Once you create the custom link before edit the custom components, and then only you can be able to select the custom link over there.

After creating custom links -> custom components then we can able to change the home page layout.

Q11. What is the difference between “save” and “save&assign” tabs in this SFDC environment?

A: By using “save” we can just save whatever the changes we have done but by using “save & assign” we can assign the changes to particular profile after we did any changes.

Q12. What is the difference between Picklist and Picklist (multi-select)?

A: User can make a group of filed values together & select whatever field value user want and also user can select default field name. By using Picklist (multi-select) user can select multiple field values and from those available values user can have choose multiple values.

Q13. What is field dependency?

A: controlling filed and dependent field , based on these fields we can explain the functionality of filed dependency. Suppose if user have some fields under controlling filed and some dependence fields under dependent field. If user included some dependency fields under particular controlling field, later in case of selecting that controlling filed directly/ dynamically it shows the dependency fields.

Q14. What do you know about formula field?

A: Based on some conditions user can sort out the things easily in SFDC environment. User can make conditions based on merge fields, some operators and some functions.

Q15.what is an validation rule?

A: SFDC platform accept the data from users based on some validation rules, these are nothing but “error condition & corresponding error message”. user can see the error message below the corresponding field.

“validation rules prevent the users from entering the wrong data”.

Q16.what is a trigger?

A: Each and every object contain separate validation rules & separate triggers. here trigger will contain the APEX (SFDC proprietary language) code and whenever user want to create a task it will try to create a update record information with ID and value. here the operations may be insertion, deletion, create and update a filed. so “whenever the event occurs correspondingly action will fire”.

Q16.what is a Filed set?

A: We can define group of required fields together is called as “Filed set”, we can use this field Filed set wherever and whenever we want. if we wanna change any field in that filed set, we can change it and modification will get into all applications where ever we had used this filed set.

Q17. What is Public calender and resources?

A: If we want to share the project schedule and any information related to group of people we can make use of Public calenders.

conference rooms and the stuff like that are known as resources.

We have to put in ACTIVE, then only we can use these Public calenders and Resources.

Q18.what is a Search Layout?

A.It is also a kind of layout where you can place standard and custom fields, there you can customize the view and show the details whatever we wish.

Q19.What is Search Result in Search Layout?

A: Search Results are for search purpose and we can create List Views for filtering the records.

Q20.what is Activity List View and how it works?

A: User can edit the “particular layout” by using the Activity List View. In this layout user can only be able to see standard & customs buttons.

Q21.What is mini page layout?

A: When we want to see particular user’s important information, then we can place cursor on that particular object then we can able to see some important information. this layout is nothing but “mini page layout”.

Q22. Where can we find out mini page layout button?

A: Setup -> Customize -> Contacts -> page layout -> press ‘edit’ on any existing layout -> mini page layout.

We can find out edit page layout button under any object in SFDC thereby we can find out mini page layout button. 7

Q23.what is campaign influence?

A.Marketers can have to attend many Campaigns and campaigns will allows them to measure & report on multiple campaigns that have influence a single opportunity.

Influential campaigns can be associated to opportunities manually or automatically.

Q24.what is a “Lead Assignment Rule”?

A: If any opportunity doors a company, based on the Lead Assignment Rules, those opportunities will be assigned to particular users or Queues. These Queues will take care of by users.

Q25.what is a “Web-to-Lead Setup”?

A:Customer of a certain company (AT&T)can create Lead setup in www.[salesforce.com](http://salesforce.com/) based on some pre-existed information.

Q26.what are “Web-to-Lead Auto-Response Rules”?

A: These rules with conditions determine which email template to use when responding to leads captured from your website. The rule conditions can be based on any attribute of the incoming lead, including campaign name and status.

Q27.what is “Related Look-up Filter”?

A: By using this filter we can see whatever the “Parent Accounts” we want while creating new accounts. Actually we can create the condition to see the parent account in look up filed using this filter.

Q28.what is the use of “Partner Roles”?

A: By using this tab we can add the partner and assign new roles to that partner. so we can change already existing rules and assign new rules.

Q29.what is an “Account Team”?

A: In case of getting good opportunities from Leads to a particular company, that company will assign that opportunity to a group of people, so that they will work as a Team is called as “Account Team”.

Q30. I was unable to create ACCOUNT TEAM?

Q31.what is the use of “Contact Role”?

A. In case of creating new opportunity We can add the what ever the roles to a particular contact.

Q32.what is a “Lead Process” and what is a “Sales Process”?

A: It is for maintaining different statuses based on the record types is called as “Lead Process”.where as “”sales process” is nothing but maintaining the different “stages” for different record types.

Q33.what is a “Big Deal Alert”?

A: we can create some alerts to our mail addresses based on Opportunity Cost.

Q34.what is a “Similar Opportunity”?

A: Based on some match criteria sales refs can handle the upcoming similar opportunities like which we got similar opportunities previously.

“Similar opportunity will assign only when we got closed won”.

Q35.What is “Forecast” in CRM environment?

A: Forecast is nothing but a future analysis of a company or any organization.

(or)Based on forecast manager of a particular company can be able to see how many opportunities were taken care by sales representatives and will be able to see profit or loss of a business.

Q36.what is a “Batch submit”?

Development Interview

Explain What Is Sales Force?

Answer :

Salesforce is a CRM delivered as a software-as-a-service (SaaS).

Explain What Is A Custom Object In Sales Force?

Answer :

Custom objects are nothing but database tables. It stores data related to your company in Salesforce.com. Once you have defined custom object you can do following things like

Create custom fields

Associate the custom object with other records

In custom related lists, it display the custom object data

For custom object, records track events and tasks

Build page layouts

For the custom object create a custom tab

To analyze custom object data create dashboards and reports

Share your custom tabs, custom apps, custom objects and any other related components

Explain What Is Object Relationship Overview?

Answer :

Object relationship overview in Salesforce is used to link custom object records to standard object records in a related list. In simple words, it is helpful to track product defects associated with customer cases. You can define different types of relationship by creating custom relationship fields on an object.

Mention Changing What May Cause Data Loss?

Answer :

Data loss may cause due to following reasons

Changing data and date-time

Altering to percent,number and currency from other data types

Changing from multi-select picklist, checkbox, auto number to other types

Altering to multi-select picklist from any type except picklist

Changing to auto-number except from text

Changing from text-area to e-mail, phone, URL and text

How Saas Can Be Helpful To Sales Force?

Answer :

As SaaS is a subscription based, customers can always choose not to renew if they are dissatisfied

Customers can avoid a large initial investment in an IT infrastructure and day to day hustle of maintaining infrastructure

SaaS customer provides same provider infrastructure and also easy integration

SaaS applications use a simple internet interface that makes easier for customer to use.

SaaS always provide a latest platform to the customer with innovation.

How Sales Force Is Useful In Tracking Sales?

Answer :

Sales force records all the basic details like the number of customers served daily, daily sales volume, sales manager detailed reports, sales numbers in each month or quarter. Also, it keeps a track on the repeat customer, which is key to success for any sales organization.

Mention How Many Relationship Is Included In Sfdc And What Are They?

Answer :

There are two types of relationships

Master detail relationship

Lookup relationship

Mention What Is The Difference Between Isnull And Isblank?

Answer :

isNull: It supports for number field

isBlank: It supports for Text field

Explain What Is The Trigger?

Answer :

Trigger is a code that is executed before or after the record is updated or inserted.

Mention What Is The Use Of The Static Resource In Salesforce?

Answer :

With the help of static resources, you can upload zip files, images, jar files, JavaScript and CSS files that can be referred in a visual force page. The optimum size of static resources for an organization is 250 mB.

Mention What Is The Difference Between Force.com And Salesforce.com?

Answer :

Force.com is PaaS (Platform as a Service) while Salesforce.com is SaaS ( Software as a Service).

Mention What Are The Actions Available In Workflow?

Answer :

Actions available in workflow are

Email Alert

Task

Field Update

Outbound Message

Explain What Is The Limit Of Data.com Records That Can Be Added To Salesforce?

Answer :

User can see their limit form setup, by clicking data.com administration/Users. From the data.com

users section, user can see their monthly limit and how many records are exported during the month.

Mention What Are The Different Types Of Custom Settings In Salesforce?

Answer :

Different types of custom settings in Salesforce includes

Hierarchy type

List type

Mention What Are The Three Types Of Object Relations In Salesforce?

Answer :

Different types of object relations in Salesforce includes

One to many

Many to many

Master detail

Mention What Are The Different Types Of Reports Available In Salesforce?

Answer :

Different types of reports available in Salesforce are

Tabular report: It displays the grand total in the table form

Matrix report: It is a detailed report in which the grouping is done based on both rows and columns

Summary report: It is a detailed form of the report in which the grouping is done based on columns

Joined report: With this two or more reports can be joined in the single reports

Is It Possible To Schedule A Dynamic Dashboard In Salesforce?

Answer :

No, it is not possible to schedule a dynamic dashboard in Salesforce.

What Does It Indicate If An Error State This “list Has No Rows For Assignment”?

Answer :

The error that tells “list has no rows for assignment” indicates that the list you are trying to access has no values in it.

Explain What The Junction Object Is And What Is The Use?

Answer :

Junction objects are used to build many-to-many relationships between objects. You can take a recruiting application example, where a position for a job can be linked to many candidates and in the same manner a candidate can be linked to the different positions. So, to connect this data model, you need a third party object, this object is referred as junction object. Here “job application” is the junction object.

Explain What Is Audit Trail?

Answer :

Audit trail function is helpful in knowing the information or track all the recent setup changes that

the administration does to the organization. It can store last 6 months data.

Explain What Is Dashboard?

Answer :

Dashboard is the pictorial representation of the report, and we can add up to 20 reports in a single dashboard.

Explain How Many Controllers Can Be Used In A Visual Force Page?

Answer :

As Salesforce comes under SaaS, one can use only one controller and as many extension controller.

Mention What Is The Difference Between Soql And Sosl?

Answer :

SOQL ( Salesforce Object Query Language)

Only one object at a time can be searched

Query all type of fields

It can be used in triggers and classes

DML operation can be performed on query results

SOSL (Salesforce Object Search Language)

Many objects can be searched at a time

Query only e-mail, phone and text

It can be used in classes but not in triggers

DML operation cannot be performed on search result

When Do You Use A Before Vs. After Trigger?

Answer :

95% of triggers are before triggers – so if you’re unsure, go with before!

You may be wondering why so many triggers are before triggers. There’s a good reason – they’re simpler to use. If you need to make any changes to a record entering your after trigger, you have to do a DML statement. This isn’t necessary in a before trigger – changes to records entering your trigger always save!

The specific use case of an after trigger is when you need to associate any record to a record being created in your trigger. Here’s an example:

// Automatically create an Opp when an Account is created

trigger AutoOpp on Account(after insert) {

List<Opportunity> newOpps = new List<Opportunity>();

for (Account acc : Trigger.new) {

Opportunity opp = new Opportunity();

opp.Name = acc.Name + ' Opportunity';

opp.StageName = 'Prospecting';

opp.CloseDate = Date.today() + 90;

opp.AccountId = acc.Id; // Use the trigger record's ID

newOpps.add(opp);

}

insert newOpps;

}

What’s The Maximum Batch Size In A Single Trigger Execution?

Answer :

Default batch size is 200 ,However maximum batch size is 2000.

What Are The Differences Between 15 And 18 Digit Record Ids?

Answer :

Difference Between 15 and 18 Digit Record Id. Hi Experts, I would like to know the exact difference between 15 and 18 digits record id. Most of us say, 15 digit(case sensitive) and 18 digit(case insensitive).

When Should You Build Solutions Declaratively Instead Of With Code?

Answer :

As a salesforce best practice, if something can be done using Configurations (Declarative) then its preferred over coding. The declarative framework is optimized for the platform and is always preffered.

Give An Example Of A Standard Object That’s Also Junction Object.

Answer :

OpportunityContactrole is the junction between Opportunity and Contact, and also Quote is junction between Contract and Opportunity.

What Are Tile Report Types?

Answer :

4 Types of report in Salesforce.

Tabular Reports: We can only displays the grand total in the table

Summary Reports: It is a detail form of report in which the grouping done based on Columns.

Matrix Reports: It is a detail form of report in which the grouping done based on both Rows and Columns.

Joined Reports: We can join the two or more reports in the single report displayed in the form of blocks.

How Many Field Dependencies We Can Use In Visual Force Page?

Answer :

Maximum we can use 10 field dependencies in VF page.

What Is Roll-up Summary?

Answer :

Roll-up displays the count of child records and calculate the sum, Min and max of fields of the child records.

How To Create Roll-up Summary Field On Lookup Relation?

Answer :

Not possible. Roll-up summary is enabled for only Master —Detail relationship.

What Is Field Dependency?

Answer :

According to the field selection on one field filter the pick list values on other field.

Is Check Box Performs Like Controlling Field?

Answer :

Yes possible. Controlling field should be Check box or pick list.

How We Can Change The Grant Access Using Role Hierarchy For Standard Objects?

Answer :

Not possible.

What Is The Use Of “transfer Record” In Profile?

Answer :

If user have only Read access on particular record but he wants to change the owner name of that record, then in profile level Transfer Record enables he can able to change the owier.

What Is Permission Set?

Answer :

Permission sets extend users functional access without changing users profile.

Lx: A user has only read access through profile on custoni object. administrator want to give access Edit and create operations to him without changing the profile. Administrator creates the permission set having edit and creates operation on custom object and assign to that user.

What Is Manual Sharing?

Answer :

Manual sharing is to share a record to a particular user manually.

Go to detail page of record and click on manual sharing button and assign that record to other user with Read or Read/write access.

Manual Sharing button enables only when OWD is private to that object.

How To Create Master Details Relationship Between Existing Records?

Answer :

Directly we can’t create Master Detail relationship between existing records, first we have to create

Lookup relationship and provide valid lookup fields and it shouldn’t null.

How Many Ways We Can Call Apex Class?

Answer :

Visual force page

Web service

Triggers

Email services

What Is Difference Between Action Support And Action Function?

Answer :

Action function: Invoke the controller method from java script using AJAX and we can use action function from different places on visual force page.

Action support: Invoke the controller method using AJAX when even occurs on page like onMouseOver, onClick. ect... and we can use action support for particular single apex component.

How Many Ways We Can Made Field Is Required?

Answer :

While creation of field

Validation rules

Page Layout level

What Is Difference Between Role And Profile?

Answer :

Role is Record level access and it is not mandatory for all users.

Profile is object level and field level access and it is mandatory for all users.

What Is The Maximum Size Of The Pdf Generated On ‘visualforce Attribute Renderas?

Answer :

15MB

What Is Wrapper Class?

Answer :

A Wrapper class is a class whose instances are collection of other objects.

It is used to display different objects on a Visual Force page in same table.

Salesforce Development Interview Questions

Q. What is Apex in Salesforce?

>>Apex is a strongly typed object oriented programming language.

>>It allow the developer to execute flows and transaction control statements.

>>Apex enables developers to add business logic to most system events like button clicks related record updates and visualforce pages.

Q. What is Apex Programming Language?

1. Integrated: It provides built in support for DML Calls

2. Inline Salesforce Object Query Language

3. Easy to Use

4. Easy to Test

5. Version

6. Multi Tenant Aware Applications

Q. When Should I Use Apex?

To create Email services

Create web services

Perform complex validation over multiple objects

To create complex business processes that are not supported by workflow.

Create custom transaction logic

Attach custom logic to another operation

Q. How Does Apex Work?

All Apex programs runs entirely ON-Demand on Force.com Platform.

First the platform application server compiles the code into abstract set of instructions that can be understood by Apex runtime interpreter.

The compile code is stored to metadata.

When the end users triggers the execution of Apex by clicking button or visualforce page the application servers retrieves the compiled instructions from the metadata and send them to runtime interpreter before returning the result.

Q. What is Apex Email Service?

Email services is an automated process that use Apex classes to process the contents, Headers, Attachments of Inbound Email.

Note :

Visualforce email templates can not be used for mass emails.

We can associate each email services with one or more salesforce generated email address to which the users can send messages for processing.

Q. What is Map Class in Apex Salesforce?

>>Map Class Contains methods for the Map collection type.

>>A Map is collection of key values pairs where each unique key maps to a single value.

>>Map keys and values can be any data type primitive types, collections, sObjects, users defined types, and built in Apex Types.

Q. What is SOQL?

A query language that allows you to construct simple but powerful query strings and to specify the criteria that

should be used to select the data from the platform database. SOQL Stands for Slaesforce Object Query Language.

Q. What Are The Types of SOQL Statements in SalesForce?

Salesforce Object Query Language is used to query that records from the database.com based on the requirement.

There are 2 types of SOQL Statements.

1. Static SOQL

2. Dynamic SOQL

Static SOQL: The oStatic SOQL Statement is written in [] (Array Brackets)

This statements are similar to IINQ(Ion Integrated Query)

Example : String search for =’Jones’;

Contact[] contacts=[select testfield\_\_c, FirstName, LastName from Contact Where Last Name=:search for];

2. Dynamic SOQL:

>>It is used to refer to the creation of a SOQL string at run time with Apex code.

>>Dynamic SOQL enables you to create more flexible application.

>>To create Dynamic SOQL query at run time use Database.Query() method, in one of the following ways.

>>Return a single sObjects when the query returns a single record.

sObjects s = Database. Query(String\_limit\_l);

>>Return a list of sObjects when the query returns more than a single record.

Examples :

Eg1:

String myTestString = ‘TestName’;

List List= Database.Query(SELECT Id FROM MyCustomObject\_\_c WHERE Name = :myTestString);

Eg2:

String resolviedfield L = myvariable.field\_\_c;

List L = Database.Query(‘SELECT Id FROM myCustomObject\_\_c WHERE field\_\_c = ‘+resolvedfield\_L);

Q. What is The Syntax of SOQL Statement?

SELECT field1, field2,.... FROM Object\_Type [WHERE condition]

Example :

List accountList =

[SELECT ID, Name, FROM Account];

List accountList =

[SELECT ID, Name, FROM Account WHERE annual revenue<10000];

Q. What is Apex Interface?

Interface is a collection of unimplemented methods. This will specify the signature of the method, types of inputs that we pass the method specifies what type is given as an output.

NOTE : Generally the interface methods we give it as global.

Q. What is Batch Apex in Salesforce?

>>Batch Apex: Batch Apex allows you to define a single job that can be broken up into manageable chunks, whereas every chunk can be processed separately.

>>In the Batch Apex it will fetch all the records on which you want to perform the field update and divide them into list of 200 records and on every 200 records operation is performed separately.

>>This would help us to execute on more than 10,000 records as, it won’t perform an operation on all the records in a single transaction instead it dividing them into Number of subtasks where each subtask many contain the records upto 4000.

Example :

If you need to make a field update of every record of account object in your organization, then we have governing limits that would restrict us from achieving the above task.

Reason: In a single transaction we can process only 10,000 records. Now in the above case if we have more than 10,000 records in the organization then we can not perform this field update.

Q. What is Apex Scheduler?

>>It will invokes the Apex class to run at specific time.

>>Anybody who want to schedule their class they have to implement schedulable interface.

Schedule Interface:

>>The class that implements this interface can be scheduled to run at different intervals. This interface has several methods they are

Public void execute(schedulablecontext sc)

Example :

Public class mySchedule implements schedulable

{

Public void execute(schedulablecontext sc)

{

Account a = new Account(Name = ‘Afara)

Insert a;

}

}

Q. @isTest Annotation?

If you define any method as @isTest then the method is test method just like what we have defined.

Example :

Q. What is the Apex Trigger in Salesforce?

Trigger is a Apex Code that executes before or after.

The following types of DML Operation:

1. Insert

2. Update

3. Delete

4. Merge

5. Upsert

6..Updelete

Q. What are The Types of Apex Triggers in Salesforce?

Triggers Are divided into 2 types

1. Before Triggers

2. After Triggers

Before Triggers:

Before Triggers can be used to update or validate values of a record before they are saved to the database.

After Triggers:

After Triggers Before Triggers can be used to access field values of the records that are the stored in the database and use this values to make changes in other records.

Syntax :

Trigger trigger\_name on Object\_Name(trigger\_events)

{

Code\_block

}

WHERE trigger\_events can be comma separated list of events.

Q. Adding Flows to Visualforce Pages

Q. What is Apex Managed Sharing?

>>Apex Managed Sharing provides developers with the ability to support an application to share a requirements.

>>This type of sharing available to only users with modify all data permissions. Only this users can add/change apex managed sharing.

>>Apex Managed Sharing uses a Sharing reason (Apex Sharing Reason)

Q. What is the Usage of apex program with within visualforce page?

1. When you want to call apex class in visualforce page we have to declare in the following format.

< Apex : page controller = “class name “ >

Whenever we call a visualforce page in which controller attribute is defined it will first create an object for the apex class which is defined in controller.

2. When object is created for the apex class first it involves the constructor.

Q. GROUP BY?

With ApI version 18.0 and later /you can use group by with aggregate functions, such as sum() or max() to summarize the data and enable you to rollup query results rather than having to process the individual records in your code.

Syntax :

[ GROUP BY field GROUP BY LIST]

Q. SOSL Statements In Salesforce Apex?

SOSL statement evaluate to a list of sobjects , where each list contains the search results for a particular sobject type, The result lists are always returned in the same order as they were specified in the query.

If a SOSL query does not return any records for a specified sObject type , the search results include an empty list for that sObject.

for example, you can return a list of accounts, contacts, opportunities and leds that begin with the phase map.

List < list < subject >> search list = [ find 'map\*' In ALL FIELDS RETURNING Account (ID, Name), contact, opportunity, lead ];

Note :

The syntax of the classon Apex differs from the syntax of the FIND clause in the SOAP API.

In Apex, the value of the FIND cause is demarcated with single quotes.

Example :

FIND 'map\*' IN ALL FIELDS RETURNING account (Id, Name], Contact, Opportunity, Lead.

In the Force.com API, the value of the FIND Clause is demarcated with braces.

For Example:

FIND {map\*} IN ALL FIELDS RETURNING account [Id,name], contact ,opportunity,lead.

From search list , you can create arrays for each object returned.

Account [ ] accounts = (( list < accounts > ) search list [0] );

Contact [ ] contacts = [( list ) search list [0]) ;

Opportunity [ ] opportunities = ((list < opportunity> ) search list [2]) ;

Lead [ ] leads = (( list < lead> ) search list [3]);

Q. Javascript remoting for apex controllers

Use javascript remoting in visualforce to call methods in apex controllers from javascript.

Javascript remoting has 3 parts.

1. The remote method invocation you add to the visualforce page, written in javascript.

2. The remote method definition in your Apex controller class.

3. This method definition is written in apex, but there are few differences from normal action methods.

4. The response handles callback function you add to or include in your vf page, written in javascript.

Q. Adding javascript remoting to a vf page

To use javascript remoting in a vf page , add the request as a java script invocation with the following from.

[namespace.] controller.method (

[parameters….,]

Call back Function,

[configuration]

);

Name space is the namespace of the controller class

Controllers is the name of your apex controller.

Method is the name of your apex controller method you are calling.

Parameters is the comma-separated list of parameters that your method takes.

Callback function is the name of the javascript function that will handle the response from the controller.

Configuration configures the handling of remote call and response.

Q) What is the main difference between using data table vs .page block table tags ?

PageBlock : For default salesforce standard format .

Data table : To design custom formats

Q) Which tag is used with both radio buttons and picklists to create the selectable values?

tag

Q) What is Multitenant Architecture ?

An application model in which all users and apps share a single, Common infrastructure and code base.

Q) What is metadata - driven development model ?

An app development model that allows apps to be defined as declarative ‘blueprints”, with no code required. Data Models, objects, forms,workflows, and more are defined by Metadata.

Q) What are force platform sites ?

Public websites and applications that are directly integrated with your salesforce organization without requiring users to log in with a username and password.

Q) What is AppExchange directory ?

A web directory where hundreds of appexchange apps are available to salesforce customers to review, demo, comment upon, and /or install. Developers can submit their apps for listing on the appexchange directory if they want to share them with the community.

Q) What are some apex classes that are commonly used within controller ?

Standard controller, select option, page reference, message, etc,

Q) What are the effects of using the transient keyword ?

The transient keyword prevents the data from being saved into view state. This should be used for very temporary variables.

Q. Configuring javascript remoting requests

Configure a remoting request by proving an object with configuration settings when you declare the remoting request.

javascript remoting supports the following configuration parameters.

Q. How to invoke batch apex job (or) how to execute the batch apex job programmatically?

We can use database.executebatch ( ) method to programmatically begin the batch job.

Syntax ;

Public static ID execute batch ( sObject class name)

Public static ID execute batch (sObject class name, integes scope)

The above two methods are static methods of database class. We can use any one of the method to execute the batch job.

NOTE :

The class name what we are passing to the database.execute batch( ) method should be object of the class which has implemented database.batchable interface.

Q. What is Future Annotation(@Future)?

>>Use the future annotation to specify that these methods that are executed asynchronously.

>>Methods with future annotation must be static methods

>>Methods with future annotation can only return a void type.

Syntax :

global class class\_name

{

@future

Static void methodname(parameters)

{

//body of the method

}

Q.What is Metadata-driven development model?

An app development model that allows apps to be defined as declarative “blueprints,” With no code required. Data model, objects, forms, workflows, and more are defined by metedata.

Q. What is S-Control?

S-Controls are the predominant salesforce.com widgets which are completely based on JavaScript. These are hosted by salesforce but executed at client side. S-Controls are superseded by VisualForce now.

Q. Will Visualforce still supports the merge fields usage like S-control?

Yes. Just like S-Controls. Visualforce pages support embedded merge fields.

Q. What is SOAP?

A protocol that defines a uniform way of passing XML-encoded data. SOAP Stands for Simple Object Access Protocol.

Q. What is a Time Trigger?

A setting that defines when time-dependent workflow actions should fire.

Q. Does user can create insert their own custom logo, while creating their own custom applications?

Yes user can upload their custom logo in documents and then they choose that logo for organization.

Q. List things that can be customized on page layouts?

We can customize different things on page layout like, Fields, Buttons, Custom Links and Related Lists. We can also create sections.

Q. What is a “Self Relationship”?

Self Relationship is a lookup relationship to the same object. Suppose let’s take an object “Merchandise”. Here we can create relationship in between the Account to Account (same object) object. That is called “Self Relationship”.

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Q. What are the main things need to consider in the “Master-Detail Relationship”?

Record level access is determined by the parent, Mandatory on child for reference of parent, cascade delete (if you delete the parent, it can cascade delete the child).

Q. What is difference between trigger and workflow?

Workflow

Workflow is automated process that fired an action based on Evaluation criteria and rule criteria.

We can access a workflow across the object.

We cannot perform DML operation on workflow

We cannot query from database

Trigger

Trigger is a piece of code that executes before or after a record is inserted or updated.

We can access the trigger across the object and related to that objects

We can use 20 DML operations in one trigger.

We can use 20 SOQL’s from data base in one trigger.

Q. What is Wrapper class?

A Wrapper class is a class whose instances are collection of other objects.

It is used to display different objects on a VF (Visual Force) page in same table.

Q. SOQL Vs SOSL?

SOQL- Salesforce Object Query Language

Using SOQL we can Search only on one object one time.

We can query on all fields of any datatype

We can use SOQL in the Triggers and the classes.

We can perform DML operation on sql query results.

SOSL(Salesforce object Search Language)

Using SOSL we can search on many objects at one time.

We can query only on fields whose data type is text,phone and Email.

We cannot use in Triggers but can in calsses.

We cannot perform DML operation on search results.

Checkout SalesForce Sample Resumes

Q. What is difference insert() and database .insert() ?

Using insert method we can insert the records but if any error occurs in any record system will throw an error insertion fail and none of the records are inserted.

If we want to execute partially success of bulk insert operation we will use database .insert.

Q. What is Static Resources?

Using Static Resources we can upload images, zip files, jar files, java script and CSS files that can be referred in a visual force page.

The maximum size of Static Resources for an organization is 250mB.

Q. How to call java script using Static Resource in Visual Force page?

Add java script file in Static Resource setup -> develop -> Static Resources -> click on ‘New’ -> Name: filename and add file from local desktop and save.

We can use that file as follows in Visual Force page

Q. What is sharing rule?

If we want to give the access to other users we use sharing rules.

Q. How many ways we can share a record?

Role Hierarchy:

If we add a user to a role, the user is above in the role hierarchy will have read access.

Setup -> manage users -> roles -> setup roles -> click on ‘add role’ -> provide name and save.

OWD :

Defines the base line setting for the organization.

Defines the level of access to the user can see the other user’s record

OWD can be Private, Public Read Only, Public Read and Write.

Setup -> Security Controls -> sharing settings -> Click on ‘Edit’

Manual Sharing:

Manual Sharing is sharing a single record to single user or group of users.

We can see this button detail page of the record and this is visible only when OWD setting is private.

Criteria Based Sharing rules:

If we want to share records based on condition like share records to group of users

Whose criteria are country is India.

Setup -> security controls -> sharing settings -> select the object and provide name and

Conditions and save

Apex sharing:

Share object is available for every object(For Account object share object is AccountShare ). If we want to share the records using apex we have to create a record to the share object.

Q. Unit testing code which has logic around the CreatedDate

You can create sObjects in memory with arbitrary CreatedDate values by using JSON.deserialize. This doesn’t enforce the normal read-only field attributes that prevent you from setting a createdDate value. However you can’t commit arbitrary CreatedDate values to the database (or else it would be a serious security issue).

An example of doing so :

String caseJSON = ‘{“attributes”:{“type”:”Case”,”url”:”/services/data/v25.0/sobjects/Case/500E0000002nH2fIAE”},

“Id”:”500E0000002nH2fIAE”,

“CreatedDate”:”2012-10-04T17:54:26.000+0000″}’;

Case c = (Case) JSON.deserialize(caseJSON, Case.class );

System.debug(c.createdDate);

Note that I built the caseJSON string by creating a test case and serializing it, which is the easiest way to get JSON similar to what you want, then you can just tweak the values.

Q. Ignoring Validation rules when deploying code

I have seen a solution that uses a Custom Setting of ValidationRuleEnabled.

ALL validation rules set up have the && $Setup.CustomSetting\_\_c.ValidationRuleEnabled\_\_c added.

When you want to deploy any code then the administrator changes the Custom Setting to FALSE, deploy the new code; don’t forget to re-enable the Custom Setting!

Again this is not ideal as the ‘legacy’ code should be updated to accommodate the new validation rules; ideally at the time of creating the new validation rules (but who checks code coverage after making a small change like a validation rule?)

Q. Can I find out if the current user has access to a record without querying?

To find out if a particular user has Edit access to a record, use the UserRecordAccess object. This object is available in API version 24.0 and later. You can use SOQL to query this object to find out if the user has edit access to the record in question.

SELECT RecordId, HasEditAccess FROM UserRecordAccess WHERE UserId = [single ID] AND RecordId = [single ID]

If you want to check a batch of records you can use

SELECT RecordId FROM UserRecordAccess WHERE UserId=:UserInfo.getUserId()

AND HasReadAccess = true ANDRecordId IN :allRecordIds LIMIT 200

But make sure that allRecordIds is a LIST of IDs. It doesn’t work if allRecordIds is a SET of IDs. I guess that’s a bug.

Also, only a maximum amount of 200 recordIds can be checked in one query.

Checkout SalesForce Tutorial

Q. Detecting governor limits through apex

First of all, the exception thrown by hitting a limit, System.LimitException is uncatchable and means that your script will be killed, even if it happens inside a try/catch block. There is a class, Limits, that contains a number of static methods that allow you to check your governor limit consumption,

see: <https://www.salesforce.com/us/developer/docs/apexcode/Content/apex_methods_system_limits.htm>

With that said, your example of @future calls per day is one of the limits that simultaneously is and isn’t a

governor limit as I believe it throws a System.AsyncException instead which is not catchable, and kills your script as a LimitException would.

Q. What is a concise function that formats a (String) decimal into a currency format in Apex?

@RickMeasham’s method is a good one, but I ran into a couple rounding issues with negative values and fractional values. Here’s my edited version of the method that passes the tests I needed it to (not rendering -0.001 as “-0.00”, not rendering -1.10 as “-1.09”).

public static String formatCurrency(Decimal i) {

if (i == null || Math.abs(i) < 0.005) return ‘$0.00’;

String s = (i.setScale(2) + (i >= 0 ? 0.001 : -0.001)).format();

return s.substring(0, s.length() – 1);

}

(EDIT: changed “<= 0.005” to “< 0.005” per @RickMeasham’s advice below.)

(EDIT 2: actually realized, when I finished tests, that this updated method still had a few shortcomings related to rounding. I updated to delegate to Math.roundToLong per code below [which uses round half even, not half up as I stated in my comments erroneously]. It now passes all my unit tests, which you can see here: <https://codepad.org/ycttSXjq>)

private String formatCurrency(Decimal i) {

if (i == null) return ‘0.00’;

i = Decimal.valueOf(Math.roundToLong(i \* 100)) / 100;

String s = (i.setScale(2) + (i >= 0 ? 0.001 : -0.001)).format();

return s.substring(0, s.length() – 1);

}

Q. How do you write a unit test for a trigger whose only function is to make a callout?

Both future methods and callouts can be unit tested.

To test future methods simply make your call to any future method between Test.startTest();and Test.stopTest(); statements and the future method will return when Test.stopTest(); is called. See the documentation for the Test class here: System.Test

Testing callouts is a bit trickier though. Basically in your callout code you check to see if you’re executing within a unit test context by checking Test.isRunningTest() and instead of getting your callout response from an HttpResponse.send() request, you return a pre-built test string instead. There’s one example of this method here: <https://www.iterativelogic.com/unit-test-callouts-in-apex-code-part-2/>

There’s also an older example of callout unit testing that uses a static variable you set in your unit test. Just replace that static variable with a call to Test.isRunningTest() and their example works fairly well as well. That example can be found here:https://sfdc.arrowpointe.com/2009/05/01/testing-http-callouts/

Q. Can report data be accessed programmatically?

Update for Winter ’14

API:

I think the biggest announcement that developers have been waiting for API wise is the availability of our Analytics API. We introduced a limited pilot in summer 13 and now the Analytics REST API is generally available. The Analytics API lets you integrate Salesforce report data into your apps programmatically and has several resources that let you query metadata, and record details.

Source – Winter 14 Developer Preview

Q. How do you unit test a trigger when you don’t know the required fields?

Customers can have validation on custom fields via validation rules and triggers, so handling that in your unit tests without customer intervention is next to impossible. The first step to reducing issues is to have your test data populate all standard fields and ensure the data uses the most common formatting for your customer base (US style phone numbers and addresses for the US for example).

Beyond that you can use the new Reflection features added to Salesforce in Summer ’12 to allow customers to create unit test data classes that can be used by your managed package. Basically you define a test data

generation interface and the customer creates an Apex class to generate data for you. Here’s an example of using Reflection in a similar manner on the DeveloperForce blog:https://blogs.developerforce.com/developer-relations/2012/05/dynamic-apex-class-instantiation-in-summer-12.html

Using the method for unit tests run on install might be problematic as you’d have to have the customer create the class before they install your package and your package could only look for the class by name (or iterate through all default namespace classes and check for the correct interface). However, it’s no longer necessary for unit tests to run during installation for managed packages and by default they do not.

The Reflection method requires some coding knowledge on the customer side, but you could add a tool in your application to generate the custom unit test data class for the customer.

FYI, it’s no longer necessary for managed package unit tests to succeed in customer orgs. They’re not required on install, they will no longer prevent deployment to production and they don’t count as part of the customers unit test coverage percentage for purposes of deployment. The only exception to that is if the customer uses ANT and sets the runAllTests parameter to true.

Q. Deleting a class without IDE

This can be done with the Force.com Migration Tool:https://wiki.developerforce.com/page/Force.com\_Migration\_Tool

See the full documentation here: <https://wiki.developerforce.com/page/Force.com_Migration_Tool>

The tool can create or delete any meta-data that can be created through the Force.com IDE or Change Sets. It comes with a sample config file that contains example deployments for deploying objects and Apex code and deleting them as well. The documentation has a very detailed step-by-step guide here:

<https://www.salesforce.com/us/developer/docs/daas/index_Left.htm#StartTopic=Content/forcemigrationtool.htm>

Q. Is there a defacto 3rd party utilities library for Apex such as Apache Commons is for Java?

Apex-lang is about as close to a Java-style library as you can get. Contains several string, database, and collection utilities that mimmick Java functionality. Be aware though, some stuff including Comparing and Sorting collections is out of date with the advent of the Comparable interface in Apex.In addition to apex-lang, and like you suggest, I typically create or reuse static helper methods throughout my projects. Static helper methods are very convenient for reusing code in Chatter functionality, DML handling, Exception handling, Unit testing, etc.

Q. Using transient keyword to store password in hierarchy custom setting

Because your myPref property is transient the initialisation you perform in the constructor won’t round trip when the page posts back.

When I’ve used transient and a protected custom setting I use separate properties that are transient and then only work with the custom setting in the post back method.

Controller

Skip code block

public with sharing class TestCustomSettings {

// transient to ensure they are not transmitted as part of the view state

public transient String password1 {get; set;}

public transient String password2 {get; set;}

public PageReference save() {

// I’ve changed this to getInstance() rather than getValues()

TestR\_\_c myPref = TestR\_\_c.getInstance(UserInfo.getOrganizationId());

if(myPref == null) {

myPref = new TestR\_\_c();

myPref.SetupOwnerId = Userinfo.getOrganizationId();

}

myPref.Password1\_\_c = password1;

myPref.Password2\_\_c = password2;

// Note that by using upsert you don’t need to check if the Id has been set.

upsert myPref;

}

}

Visualforce page

You can use inputSecret rather than inputField in the Visualforce page so that the browser will mask the input.

Q. Is there a way to setup continous integration for apex tests?

There are a couple of decent Dreamforce presentations here: Team Development: Possible, Probable, and Painless and Continuous Integration in the Cloud.

We ran into some issues with this in practice and there was no way to get true automation (i.e., set it and forget it). We were also setting it up with Selenium.

Here were the issues that I remember.

Some features aren’t supported in the metadata API and cannot be moved via the ant migration. If you have any unit tests that work with those features, you have to manually work on your CI org.

Deletions are harder to maintain. You have to manually update and apply a destructiveChanges.xml file or replicate the deletion in the CI org.

We ran into a situation where some metadata XML files had ‘invalid’ data in them. The suggested solution was to build a post checkout script that manipulates the offending XMLs into valid XMLs. Not ideal.

On projects, we wanted to track just our changes and push out just our changes in source control. In theory, this would allow much easier rebaselining. This would have required more manual maintenance of XML files (e.g., 2 new fields added on Account and only want to push those 2 fields not all (\*) fields).

My conclusion is that it is worth doing if you can get it set up, but if you are working on shorter term projects and don’t have a decent amount of time budgeted in for it, it probably isn’t worth setting up.

Although it isn’t CI, check out <https://developer.force.com/cookbook/recipe/automated-unit-test-execution>. You could set it up to run every hour or something like that.

Q. What are the implications of implementing Database.Stateful?

Daniel Ballinger: No, batches do not ever run simultaneously. You are correct, however, that serialization is the culprit here.

grigriforce: what’s your batch size? If you’re doing a million records, and your batch size is 1, then you will serialize/deserialize your state 1M times. Even with a small serialized object, that’s gonna hurt.

Q. What are the recommended ways to refactor in Apex?

I use the second method. After refactoring, I select the ‘src’ folder, use File Search/Replace and all the changes are made and saved to the server in one go.

Q. What is a good set of naming conventions to use when developing on the Force.com platform?

Follow the CamelCase Java conventions, except for VF pages and components start with a lower case letter.

Triggers:

Trigger – The trigger itself. One per object.

TriggerHandler – Class that handles all functionality of the trigger

TriggerTest

Controllers:

Controller

ControllerExt

ControllerTest

ControllerExtTest

Classes:

Test (These might be Util classes or Service classes or something else).

Visualforce pages and components:

[optionalDescription] (without the suffix Controller). There might be multiple views so could also have an extra description suffix.

Object Names and custom Fields

Upper\_Case\_With\_Underscores

Variables/properties/methods in Apex

camelCaseLikeJava – more easily differentiated from fields

Test methods in test classes

test – For example, testSaveOpportunityRequiredFieldsMissing, testSaveOpportunityRequiredFieldsPresent, etc.

Working on something that would be used as an app or in some cases just a project? If yes, then do the following:

Prefix all custom objects, apex classes, Visualforce pages and components with an abbreviation so that they are easier to identify (e.g., easier for changesets). For example the WidgetFactory app would have the prefix wf on those. Additionally, when adding custom fields to a standard object they would also be prefixed to identify them as part of the app/package.

The main reason for the Object and Fields Names using Upper\_Case\_With\_Underscores is that when you type in the name field or object with spaces it automatically adds the underscores. Although Apex is case insensitive, always refer to the Objects and Custom Fields in the code as Upper\_Case\_With\_Underscores as well for consistency all around and consistency with what is generated by the SOQL schema browser and other tools. Object and Field Labels (which are generally ignored by code but visible to users) should keep spaces, not underscores.

Q. Why use Batch Apex?

A Batch class allows you to define a single job that can be broken up into manageable chunks that will be processed separately.

- One example is if you need to make a field update to every Account in your organization. If you have 10,001 Account records in your org, this is impossible without some way of breaking it up. So in the start() method, you define the query you’re going to use in this batch context: ‘select Id from Account’. Then the execute() method runs, but only receives a relatively short list of records (default 200). Within the execute(), everything runs in its own transactional context, which means almost all of the governor limits only apply to that block. Thus each time execute() is run, you are allowed 150 queries and 50,000 DML rows and so on. When that execute() is complete, a new one is instantiated with the next group of 200 Accounts, with a brand new set of governor limits. Finally the finish() method wraps up any loose ends as necessary, like sending a status email.

- So your batch that runs against 10,000 Accounts will actually be run in 50 separate execute() transactions, each of which only has to deal with 200 Accounts. Governor limits still apply, but only to each transaction, along with a separate set of limits for the batch as a whole.

Disadvantages of batch processing:

It runs asynchronously, which can make it hard to troubleshoot without some coded debugging, logging, and persistent stateful reporting. It also means that it’s queued to run, which may cause delays in starting.

There’s a limit of 5 batches in play at any time, which makes it tricky to start batches from triggers unless you are checking limits.

If you need access within execute() to some large part of the full dataset being iterated, this is not available. Each execution only has access to whatever is passed to it, although you can persist class variables by implementing Database.stateful.

There is still a (fairly large) limit on total Heap size for the entire batch run, which means that some very complex logic may run over, and need to be broken into separate batches.

Q. Documenting Salesforce.com Apex class files

I have used apexDoc for a while and we are starting to roll it out more fully for our use at my organisation. It is open source software and so you could always contribute some updates for it :-) What features are you wanting to add to it that it doesn’t have (just to give a flavour)?

In answer to your questions

1) I don’t think anybody has successfully managed to do this. There is an idea of the ideas exchange for it to be

done but it seems to gain very little support.

2) Theoretically it should be pretty easy as apex is a Java DSL. Have you tried running Doxygen and if so what errors does it throw up?

3) I use ApexDoc to generate some basic output and then have a little script tied in to copy across custom css and things. It isn’t perfect but it does for the small amount we need at the moment.

I believe the IDE is being open sourced at some time in which case I would imagine the antlr grammar file would become available which may help you out.

I know it is not really an answer for what you wanted to hear per se, but sadly it’s all we have atm (and I would love a nicer documentation generator!!)

Paul

Q. Workarounds for Missing Apex Time.format() Instance Method

You could just split the DateTime format() result on the first space – does that give you what you’re looking for?

public String myDateFormat(DateTime dt) {

String[] parts = dt.format().split(‘ ‘);

return (parts.size() == 3) ? (parts[1] + ‘ ‘ + parts[2]) : parts[1];

}

produces

6:38 PM

for me in English (United States), and

18:42

in French(France).

UPDATE

As tomlogic points out, the above method is not very robust – some locales may include spaces in the date or time portion of the format, and the ordering is not consistent. This second attempt assumes that the date and time are separated by zero or more spaces, but handles spaces within the two portions, and either ordering of date and time. The only assumption made is that the formatted Date is contained within the formatted Time:

public String myDateFormat(DateTime dt) {

return dt.format().replace(dt.date().format(), ”).trim();

}

Seems to work fine for Hebrew, Vietnamese & Korean, as well as English and French.

Q. Is there an average method for apex math

Unfortunately the standard math methods only include simpler operations (i.e. those that work on a single, or two values), so it looks as though you’ll have to roll your own method.

Of course the number of script statements executed will be proportional to the length of the list, so of the lists are ever of a fixed size it could be worth using a macro to generate the addition part for you:

Int sum = i[0] + i[1] + … i[n];

Doing so would only count for one statement, but you’ll only need this if governor limits are of concern which is often not a worry.

If govenor limits aren’t an issue you could create a function along these lines:

Skip code block

Integer[] myInts = new Integer[]{1, 2, 3, 4, 5, 6, 7};

Integer total = 0;

Double dAvg;

for (Integer i : myInts) {

total += i;

}

dAvg = Double.valueOf(total) / myInts.size();

return dAvg;

Q. Grammar for creating an Apex parser

Keep an eye on Apex tooling api, which is used in Developer console. This is supposed to be released to public access soon.

Q. Does ‘default value’ do anything if the object is created through Apex?

New feature coming in the next release:

Foo\_\_c f = Foo\_\_c.sobjecttype.newSObject(

recordTypeId, // can be null

true); // loadDefaultValues

Q. Detect the current LoggingLevel in Apex

Unfortunately, I don’t think there is a way to check the current logging level in APEX.

Q. Call Apex class method on the fly (dynamically)

While you can instantiate a class based on its name using the Type system class, you can’t dynamically locate a method and execute it. The best that you can do is to dynamically create an instance of a class that implements an interface and execute one of the methods on the interface.

There’s more information on the Type class and an example in the :

Apex Developer’s Guide

Q. SOQL – query a query

It sounds like you’re talking about using nested SOQL queries. Here’s an example of querying a parent and two child objects in one query, using the relationship name for each related list of objects:

list accswithchildren = [select Id, Name, CreatedDate,

(select Id, CreatedDate from Tasks order by CreatedDate desc limit 1),

(select Id, Service\_Date\_\_c from Custom\_Object\_\_r order by Service\_Date\_\_c desc limit 1)

from Account where Id in :setofids];

You can then loop through those Accounts in Apex, and for each one, there is a list (size 0 or 1) of Tasks and Custom\_Object\_\_c:

for (Account a : accswithchildren)

{

list theseTasks = a.Tasks;

list otherobjects = a.Custom\_Object\_\_r;

//do something with these records

}

Q. What’s the best way to check if person accounts are enabled via Apex Code?

I’ve found two methods to accomplish this.

Method 1

Try to access the isPersonAccount property on an Account and catch any exception that occurs if that property is missing. If an exception is generated then person accounts are disabled. Otherwise they’re enabled. To avoid making person accounts required for the package you assign the Accountobject to an sObject and use sObject.get( ‘isPersonAccount’ ) rather than accessing that property directly on the Account object.

This method takes ~3.5ms and negligible heap space in my testing.

Skip code block

// Test to see if person accounts are enabled.

public Boolean personAccountsEnabled()

{

try

{

// Try to use the isPersonAccount field.

sObject testObject = new Account();

testObject.get( ‘isPersonAccount’ );

// If we got here without an exception, return true.

return true;

}

catch( Exception ex )

{

// An exception was generated trying to access the isPersonAccount field

// so person accounts aren’t enabled; return false.

return false;

}

}

Method 2

Use the account meta-data to check to see if the isPersonAccount field exists. I think this is a more elegant method but it executes a describe call which counts towards your governor limits. It’s also slightly slower and uses a lot more heap space.

This method takes ~7ms and ~100KB of heap space in my testing.

// Check to see if person accounts are enabled.

public Boolean personAccountsEnabled()

{

// Describe the Account object to get a map of all fields

// then check to see if the map contains the field ‘isPersonAccount’

return Schema.sObjectType.Account.fields.getMap().containsKey( ‘isPersonAccount’ );

}

Q. Can’t Deploy Due to Errors in 3rd Party Packages

It was previously possible to install managed packages and Ignore APEX Test Errors this isn’t the case anymore.

Your probably going to have to uninstall them if you want to deploy from Sandbox to production, and reinstall them.

If it’s Milestones PM (the package) is you can probably get an unmanaged version to work with and fix the bugs.

UPDATE

Looks like you are using the unmanaged package. So I think if you don’t want to uninstall before going to production your going to have to fix those errors manually by fixing the code.

Unfortunately, SFDC test methods don’t live in a complete vacuum where you can run tests against your org without bumping other code, even when you go to deploy.

Q. How Can I Tell the Day of the Week of a Date?

Formulas

There isn’t a built-in function to do this for you, but you can figure it out by counting the days since a date you know. Here’s the concept: I know that June 29, 1985 was a Saturday. If I’m trying to figure out the day of the week of July 9 of that year, I subtract the dates to determine the number of days (10), and then use modular division to figure to remove all the multiples of 7. The remainder is the number of days after Saturday (1 = Sunday, 2 = Monday, etc.) and you can use that number in your logic:

MOD(DATEVALUE( Date\_Field\_\_c ) – DATE(1985,7,1),7)

Apex Code

You could do the same thing with time deltas, but you can also use the poorly documentedDateTime.format() function:

// Cast the Date variable into a DateTime

DateTime myDateTime = (DateTime) myDate;

String dayOfWeek = myDateTime.format(‘E’);

// dayOfWeek is Sun, Mon, Tue, etc.

Q. What is App in Sales force?

An app is a group of tabs that work as a unit to provide functionality. Users can switch between apps using the Force.com app drop-down menu at the top-right corner of every page.

You can customize existing apps to match the way you work, or build new apps by grouping standard and custom tabs.

Navigation to create app in Sales force: Setup ->Build ->Create->App-> Click on new and create your application according to your requirements.

Q. What is the object in Salesforce.com?

Objects are database tables that allow you to store data specific to your organization in salesforce. You can use custom objects to extend salesforce.com functionality or to build new application functionality.

When you create a custom object, we can create a custom tab, customized related lists, reports, and dashboards for users to interact with the object data. You can also access custom object data through the Force.com API.

Navigation to create object in sales force: Setup->Build->Create->Object-> Click on new object and create object according to your requirement.

Q. How many relationships included in SFDC & What are they?

We are having two types of relationships, they are

Lookup Relationship

Master-Detail Relationship

Q. What is a “Lookup Relationship”?

This type of relationship links two objects together,

Up to 25 allowed for object

Parent is not a required field.

No impact on a security and access.

No impact on deletion.

Can be multiple layers deep.

Lookup field is not required.

Related Page : How to Create Field Dependence in SalesForce

Q. What is “Master-Detail Relationship”?

Master Detail relationship is the Parent child relationship. In which Master represents Parent and detail represents Child. If Parent is deleted then Child also gets deleted. Rollup summary fields can only be created on Master records which will calculate the SUM, AVG, MIN of the Child records.

Up to 2 allowed to object.

Parent field on child is required.

Access to parent determines access to children.

Deleting parent automatically deletes child.

A child of one master detail relationship cannot be the parent of another.

Lookup field on page layout is required.

Q. How can I create Many – to – Many relationship?

Lookup and Master detail relationships are one to many relationships. We can create many – to – Many relationship by using junction object. Junction object is a custom object with two master detail relationships.

Q. A custom object contains some records, now my requirement is to create field in this object with master detail relationship. Can we create master detail relationship in this case?

No, directly we cannot create master details relationship if custom object contains existing records.

Following are the steps to create to create master-detail relationship when records are available in custom object.

First create field with lookup relationship.

And then associate look field with parent record for every recordNext change the data type of the field from look up to Master detail.

Q. List examples of custom field types?

Text, Pick list, Pick list (multi select), Date, Email, Date/Time, Date, Currency, Checkbox, Number, Percent, Phone, URL, Text Area, Geolocation, lookup relationship, master detail relationship etc…..

Q. What is TAB in Salesforce?

Tab is a user interface component to user creates to display custom object data.

There are three type of tabs.

Custom Tabs

Visual force Tabs

Web Tabs

Q. What are the actions in workflow?

Email Alert

Task

Field Update

Outbound Message

Go through the below link for the more information about workflow actions <HTTP://WWW.SALESFORCETUTORIAL.COM/SALESFORCE-WORKFLOW-AUTOMATION-WORKFLOW-MANAGEMENT/>

Q. How many ways we can made field is required?

While creation of field

Validation rules

Page Layout level

Q. What is difference between Role and Profile?

Role is Record level access and it is not mandatory for all users.

Profile is object level and field level access and it is mandatory for all users.

Q. What is the maximum size of the PDF generated on visualforce attribute renderAs?

15MB

Q. How many controllers can be used in a visual force page?

Salesforce come under SAAS so, we can use one controller and as many extension controllers.

Q. What is the difference between Action support and Action function?

Action function: Invoke the controller method from java script using AJAX and we can use action function from different places on visual force page.

Action support: Invoke the controller method using AJAX when even occurs on page like onMouseOver, onClick, ect… and we can use action support for particular single apex component.

Q. How many ways we can call the Apex class?

Visual force page

Web Service

Triggers

Email services

Q. How to create Master Details relationship between existing records?

Directly we can’t create Master-Detail relationship between existing records, first we have to create Lookup relationship and provide valid lookup fields and it shouldn’t null.

Related Page : What is Cloud Computing - Salesforce

Q. What is permission set?

Permission sets extend user’s functional access without changing user’s profile.

Ex: A user has only read access through profile on custom object, administrator want to give access Edit and create operations to him without changing the profile. Administrator creates the permission set having edit and creates operation on custom object and assign to that user.

Q. What is manual sharing?

Manual sharing is to share a record to a particular user manually.

Go to detail page of record and click on manual sharing button and assign that record to other user with Read or Read/Write access.

Manual Sharing button enables only when OWD is private to that object.

Q. How we can change the Grant access using role hierarchy for standard objects?

Not possible.

Q. Explain the uses of “Transfer Record” in profile?

If user have only Read access on particular record but he wants to change the owner name of that record, then in profile level Transfer Record enables he can able to change the owner.

Q. What is Field dependency?

According to the field selection on one field filter the pick list values on other field.

Q. Is check box performs like controlling field?

Yes possible. Controlling field should be Check box or pick list.

Q. How many field dependencies we can use in Visual Force page?

Maximum we can use 10 field dependencies in VF page.

Q. What is Roll-up summary?

Roll-up displays the count of child records and calculate the sum, min and max of fields of the child records.

Q. How to create Roll-up summary field on lookup relation?

Not possible. Roll-up summary is enabled for only Master –Detail relationship.

Q. What are Record Types?

Record Types are restrict the pick list values and assign to the different page layouts for different Record Types.

Q. What is Audit Trail?

Audit Trail provides the information or track all the recent setup changes that an administrator done to the organization.

This can store the last 6 months data.

Q. What are Report Types?

4 Types of reports in Salesforce

Tabular Reports

Summary Reports

Matrix Reports

Joined Reports

Q. What is Dashboard?

Dashboard is a pictorial representation of report. We can add up to 20 reports in single dashboard.

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