Write a query to fetch recent 50 Accounts?.

SELECT Id, Name, LastViewedDate
FROM account
WHERE LastViewedDate != null ORDER BY LastViewedDate DESC LIMIT 10

Write a query to fetch Account related contact?

SELECT Id, (SELECT Contact.Name FROM Contacts)
FROM Account
WHERE Id = '0012w0000037RYPAA2'

Select Id, Name, (Select Id, LastName from Contacts) from Account

Ways of writing Parent - Child Queries for Standard Objects & Custom Objects

Select Id, Name,
(Select Id, LastName from Contacts where LastName='Frank')
from Account

SELECT Id, Name, (Select Id, Name from Custom_Object2s__r)
FROM Custom_Object1__c

Ways of writing Child - Parent Queries for Standard Objects & Custom Objects

SELECT Id, LastName, Account.Name FROM Contact

SELECT Id, Name, Custom_Object1__r.Name
FROM Custom_Object2__c

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What is the difference between System mode and user Mode? How do we specify Mode in apex class?

System mode means running apex code by **ignoring** user's permissions.
User mode means running apex code by **respecting** user's permissions and sharing of records. Let's understand it in more detail.

More Details
Link : https://www.sfdcpoint.com/salesforce/system-mode-and-user-mode-in-salesforce/

difference between sharing, without sharing and inheritance?

With Sharing : user ki security ko follow krta hai
Use the with sharing keyword when declaring a class to enforce sharing rules of the current user.

Without Sharing : user ki security ko follow nhi krta hai
Use the without sharing keyword when declaring a class to ensure that the sharing rules for the current user are not enforced
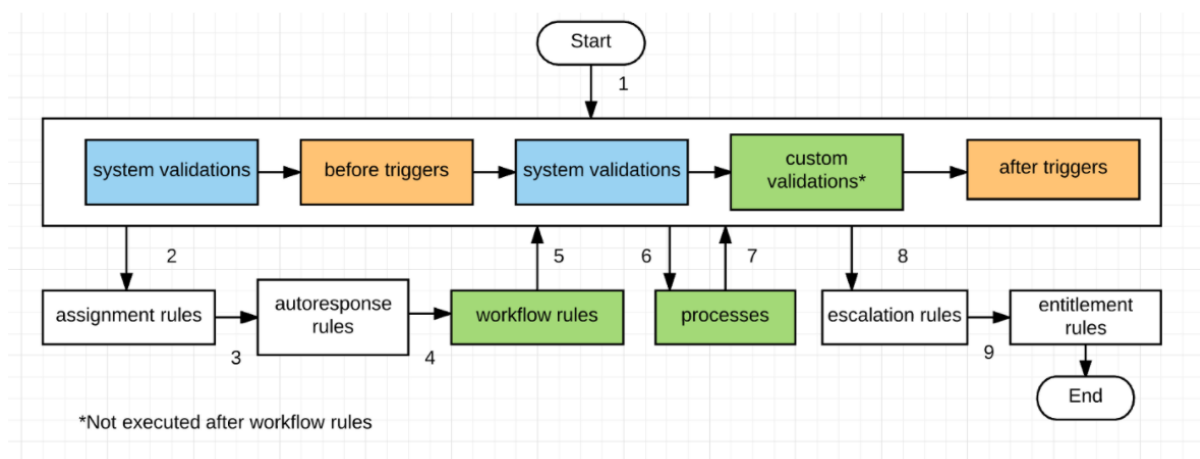
 Link :
https://developer.salesforce.com/docs/atlas.en-us.apexcode.meta/apexcode/apex_classes_keywords_sharing.htm

Order of execution in salesforce?

Link :

https://www.asagarwal.com/order-of-execution-rules-triggers-etc-in-salesforce-debug-log/

https://prasannajyothi.medium.com/what-is-the-order-of-execution-in-salesforce-c273f9059f6c

What is viewState error an how to resolve it?
what is fieldset.
Why we use interface?

Getter methods and Setter methods

Getter methods pass values from a controller to a page.
Setter methods pass values from a page to a controller .

What is Governor Limits?

 The Governor Limits are controls how much data or how many records you can store in the databases and fetch from the database.

What is the difference between a 15 digit id and 18 digit id?

Difference between 15 digit ID and 18 digit ID is,
15 digit id is case sensitive
18 digit id is case insensitive
Last 3 characters of the 18 digit id represent the checksum of the capitalization of the first 15 digits

What is a "Self Relationship"?

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

What is the difference between trigger and workflow?

Workflow
Workflow is an 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 from database in one trigger.

What is Difference between SOQL and SOSL?

SOQL(Salesforce Object Query Language)
Using SOQL we can Search only on one object at a time.
We can query on all fields of any datatype

We can use SOQL in Triggers and classes.
We can perform DML operations on query results.

SOSL(Salesforce object Search Language)
Using SOSL we can search on many objects at a time.
We can query only on fields whose data type is text,phone and Email.
We can use it in classes but not in Triggers.
We cannot perform DML operation on search result

What is the difference between insert() and database .insert() ?

Using the insert method we can insert the records but if any error occurs in any record
system will throw an error insertion failure and none of the records are inserted.
If we want to execute partial success of bulk insert operation we will use database .insert.

How do the bubble phase and the capture phase propagate?

Bubble phase: propagates from Bottom to Top.
Capture phase: propagates from Top to Bottom.

8.Avoid SOQL queries and DML inside for loops so that governor limit cannot be hit.

EVENTS	TRIGGER.NEW	TRIGGER.OLD	TRIGGER.NEWMAP	TRIGGER.OLDMAP
Before Insert	YES	NO	NO	NO
After Insert	YES	NO	YES	NO
Before Update	YES	YES	YES	YES
After Update	YES	YES	YES	YES
Before Delete	NO	YES	NO	YES
After Delete	NO	YES	NO	YES
After Undelete	YES	NO	YES	NO

difference between global and public class?

Public:

This means the method or variable can be used by any Apex in this application or namespace.

Global:

This means the method or variable can be used by any Apex code that has access to the class,
not just the Apex code in the same application. This access modifier should be used for any

method that needs to be referenced outside of the application, either in the SOAP API or by other Apex code. If you declare a method or variable as global, you must also declare the class that contains it as global.

Profile	Permission Sets
Profiles have most restrictive settings and permission a user assigned to this profile should have.	Permission Sets extend the access settings and permissions provided by the profile.
A user can have only one profile assigned.	Users can have more than one permissions sets.
Profiles are restrictive.	Permission Sets are additive.
Every user must be assigned to a profile.	It is not necessary for every user to have a permission set.

-------Dynamic query-----------

```
String cols = 'Id, Name';
String sobj = 'Account';
String condition = 'fax = null';

  string query = 'SELECT'+ cols + 'FROM'+ sobj + ' WHERE '+ condition;


  public String accLists;

    accLists  = 'SELECT BillingCountry , BillingState ';
    accLists += 'FROM Account ';
    accLists += 'WHERE BillingCountry = \'USA\' and BillingState = \'\'';


--------------------------------------------------------------------
Select  : [ SELECT Name, phone, email FROM Account];

      String field1 = 'Name';
      String field2 = 'phone';
      String field3 = 'email';

String str = 'SELECT ' + field1 + ', ' + field2 + ', ' + field3 + ' FROM ' + objectName;

List<Account> lstAccounts = Database.query(str);

Database.insert(<lst>, true);
Database.update();
```

```
database.delete();
---------------------------------------------------------
String parentField1 = Name;
String parentField2 = AccountNumber;

String Child_FieldName1 = FirstName;
String Child_FieldName2 = LastName;

String queryString =

'select id, parentField1, parentField2,
(select Child_FieldName1, Child_FieldName2 from ChildObjectName limit 1)
from ParentObject';

SObject[] queryParentObject = Database.query(queryString);

for(SObject parentRecord : queryParentObject){

Object ParentFieldValue1 = parentRecord.get('parentField1');

for(SObject childRecord : parentRecord.getSObjects('ChildObjectName')){

Object ChildFieldValue1 = childRecord.get('Child_FieldName1');

Object ChildFieldValue2 = childRecord.get('Child_FieldName2');
}

system.debug('Result: Parent value: '+ParentFieldValue1+'. First child field value:
'+ChildFieldValue1); }
```

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Action support in Visualforce

Action support component adds AJAX support to other components in Visualforce.
It allows components to be refreshed asynchronously by calling the controller's
method when any event occurs (like click on button).
It allows us to do partial page refresh asynchronously without refreshing the full
page.

In the example below, initially count value is set to 0. But when we will click on 'Click
here to increment! ', then controller action method will be called and the count will be
incremented.
Also, the outputText component will be rendered without refreshing complete page.
Similarly when we will click on 'Click here to decrement!', then controller action
method will be called and count will be decremented Also outputText component will
be rendered without

refreshing complete page.apex:actionSupport has following attributes in our example:

action: action attribute specifies the Controllers action method that will be invoked when vent occurs.
event: It is DOM event that generates AJAX request
reRender: It is comma separated id's of components that needs to be partially refreshed. In our example, we have given its value as 'out'. So component with 'out' id will be refreshed without refreshing complete page.

Action Poller: –

A timer that sends an AJAX request to the server according to a time interval that you specify. Each request can result in a full or partial page update.

<apex:actionPoller action="{!incrementCounter}" reRender="counter" interval="15? enabled = "true" />

Action Support: –

As the name indicates action support is used to provide the support to the input field where we can not get event either manually or external event. It adds the AJAX request to VF page and then Calls the Controller method. For example, if we want to call any server side method when input changes we will go for action support because we can not get any event for this.

<apex:inputText value="{!dummyString}" >
            <apex:actionSupport event="onchange" action="{!actionSupportTest}" reRender="pgBlock, pbSection" />
</apex:inputText>

Action Function: –

Action Function is used in the Visualforce page to call the Service Side method using JavaScript and does not add the Ajax Request before calling the Controller method.

<apex:actionFunction name="myactionfun" action="{!actionFunctionTest}" reRender="pgBlock, pbSection" />

Let us talk about above example. In any Javascript Method where the name of ActionFunction (In our example myactionfun()) will be invoked, it will call the controller method name actionFunctionTest. Example myactionfun();

=================End===