all salesforce interview quetions

salesforce interview quetions

1. 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.

2. What is object in Sales force?

Custom objects are database tables that allow you to store data specific to your organization in salesforce.com. You can use custom objects to extend salesforce.com functionality or to build new application functionality. Once you have created a custom object, you can create a custom tab, custom related lists, reports, and dashboards for users to interact with the custom 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.

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

We are having two types of relationships, they are Lookup Relationship Master-Detail Relationship 4. 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.

5. 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.

6. 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.

7. 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.

- 1. First create field with lookup relationship.
- 2. And then associate look field with parent record for every record

3. Next change the data type of the field from look up to Master detail.

8. 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.....

9. 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

10. 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.

11. 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.

12. 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".

13. 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).

14. 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.

15. 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 Visual Force page in same table.

16. 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 operation on query results.

SOSL(Salesforce object Search Language)

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

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

We can use in calsses but not in Triggers.

We cannot perform DML operation on search result

17. 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.

18. 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.

19. 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

<apex: includescript values=" {! \$Resource.fileName}"/>

20. What is sharing rule?

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

21. 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.

22. What are the actions in workflow?

- 1. Email Alert
- 2. Task
- 3. Field Update
- 4. Outbound Message

Go through the below link for the more information about workflow actions

http://www.salesforcetutorial.com/salesforce-workflow-automation-workflow-management/

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

- 1. While creation of field
- 2. Validation rules
- 3. Page Layout level

24. 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.

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

15MB

26. 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.

27. What is 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.

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

- 1. Visual force page
- 2. Web Service
- 3. Triggers
- 4. Email services

29. 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.

30. 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.

31. 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.

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

Not possible.

33. What is the use 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.

34. What is Field dependency?

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

35. Is check box performs like controlling field?

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

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

Maximum we can use 10 field dependencies in VF page.

37. 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.

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

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

39. What are the Record Types?

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

40. 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.

41. What are the Report Types?

4 Types of report in Salesforce

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

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.

42. What is Dashboard?

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

43. What is the relationship between Contact and Account objects in salesforce?

In Salesforce, Contacts is having a look up relationship with Accounts i.e., Simple relationship 44. What are different Organization Wide Defaults? Explain each of them?

Below are the different OWD values

Private

If the OWD for an object is set to private, then only the owner, and users above that role in role hierarchy, can view, edit and report on those records

Public Read Only

If the OWD for an object is set to Public Read Only, then all users can view and report on records but they cannot edit them. Only the record owner and the users above that role in the role hierarchy can edit the records

Public Read/Write

If the OWD for an object is set to Public Read/Write, then all users can view, edit and report on all records. But only owner of the record can delete the records.

Public Read/Write/Trfer

This is available only for Case and Lead objects

If the OWD for an object is set to Public Read/Write/Trfer then, all users can view, edit, trfer and report on all the records but only owner of the record can delete the records

Public Full Access

This is available only for Campaign object.

If the OWD for Campaigns are set Public Full Access then, all users can view, edit, delete and report on all records.

No Access, View Only or Use

This is available only for Price Book object.

If the OWD for Price Book is set Use then, all users can access the Price Book information and as well as using the Price Book configuration for Opportunities with Products.

If the OWD for Price Book is set View Only then, all users can access the Price Book information but not to use that Price Book detail in Opportunities with Products

If the OWD for Price Book is set No Access then, it restricts users from accessing information for Price Book and Prices.

Controlled By Parent

Workflow rules trigger automatically and the rules when triggered are not visible to the user. Approval process on the other hand, contains multiple step s each requiring a specific "I Approve or Reject" user action by the specified approvers.

63. What is the daily email alerts limit per standard salesforce license for workflow and approval process?

And what is the overall daily organization limit?

Daily email alert for approval process and workflow are 1000 per standard salesforce license.

Overall daily organization limit for workflow and approval process email alert is 2000000 (2 million)

64.	How	ma	any	ways	а	fiel	d	can	be	made	Э	man	datory?
Α	field	(can	be		made	r	nandatory		in	4	4	ways.
1. 2. 3. 4.	While) (creating	a Using	f	ield, Using Validati	we on	can Page	mai	ke	it	l	ndatory _ayouts riggers Rules
65.		What		ar	re		trigge	r	be	est		pra	ctices?
Trigge	er best			praction	ces ind	clude			below				things
1. 2. 3. 4.	Have	Avoi Hav a			DML, one lass	to Avoid		OQLs gger the	logic	in per of		the	triggers object trigger cursion
66. Different 15 18	What ence	are betwe digit digit			ce digi id d	<mark>between</mark> it II	15) is is	digit and	id 18 cas case		18 t		id? is, ensitive ensitive

Last 3 characters of the 18 digit id represent the checksum of the capitalization of the first 15 digitss

67. What different salesforce are user licenses available in and explain them? Below is the list of licenses available in salesforce Full CRM Salesforce access to salesforce and appExchange◊1) only to Custom apps but not standard CRM◊2) Salesforce Designed to access only one custom app with unlimited number of tabs (3) Force.com One App Grant user access to Force.com Light app or Force.com enterprise app but no CRM functionality(>4) Knowledge Subscription Designed for users who only need access to the Salesforce Knowledge app§5) Knowledge Only User User has access to chatter which includes feeds, profiles, files and groups 6) Designed to allow customers in Chatter groups. Customers are users outside of a company's email domain.◊7) Chatter External User has access to Groups, feeds, people, profiles and files along with access to \$\delta 8\$) Chatter Only view accounts and contacts, modify custom objects and use CRM contents, Ideas and wers

68. What is traction workbench in salesforce?

Traction workbench is a salesforce feature for implementing the language in multiple languages. i.e not just the data but also all your configurations and customizations that you do as part of the implementation.

69. What is workbench in salesforce?

Workbench is a powerful, web-based suite of tools designed for administrators and developers to interact with salesforce.com organizations via the force.com APIs. Workbench includes robust support for the Force.com Partner, Bulk, Rest, Streaming, Metadata, and Apex APIs that allows users to describe, query, manipulate, and migrate both data and metadata in Salesforce.com organizations directly in their web browser simple intuitive а and user interface Loader? 70. What is Data Loader and how many ways we can use Data Data Loader client for bulk export of data. is application, used import а or Data Loader can be used in 2 ways. Interface 1. User 2. Command Line using 71. How Data Loader? many records we can insert 5 million Data Loader We can insert up to records using 72. What are the objects supported by Data Loader? Data Loader supports all objects including custom objects 73. often do Salesforce update How the software? The background software is typically updated thrice a year, Spring, Winter and Summer. Software updates are trparent to the user base and only require a small maintenance window over the weekend. development have custom within the Salesforce.com Yes, there are a number of different programming solutions available depending on the type of development required. There is the FORCE.COM development environment and typically Apex and Java languages that can be used. Outlook 75. Can integrate my email from or other mail solutions? Yes, there are a number of standard off the shelf tools that allow emails and contact informationto be synchronized with data Salesforce.com 76. How easy is it to customize the environment to reflect the way my business works? It is relatively easy to configure the look and feel, add new fields, load up your company logo and change page layouts. You should always have a CRM strategy before you start and consider the impact of change on your data. If you have any concerns, our team of experts will happily help you! 77. How much space do aet with Salesforce? All customers receive the default minimum storage amount of 1GB of data and 1GB of files. Group Edition has 1GB of data and 1GB of file storage shared by all users. Professional and Enterprise **Editions** provide **20MB** of data 600MB of file and storage per user. file Unlimited Edition provides 120MB of data and 600MB of storage user. 78. Where is data being stored? my Depending on your geographical location, Salesforce.com will store your data in a number of hosted facilities in North America, Europe or the Asia Pacific.

There are a number of tools and services that allow you to extract your data on going and at the end of

get

my

data

back?

79.

How

do

the service contract. If you need a business continuity or Disaster Recovery plan, our trained Salesforce professionals will be please to help! 80. Are there Apps that perform different functions and services in Salesforce.com? Yes, Salesforce has its own marketplace with currently over 1500 cloud computing and business applications to download and install. 81. What is the difference between Customer portal Partner portal? Traditionally Partner Portal is part of companies Partner Channel Sales efforts. It is a portal focused more on Sales force automation and the efforts of those partners that sell your products to nurture the leads you pass to them, the leads they enter in themselves and the convert to Opportunity and subsequent sale. Customer Portal on the other hand is more focused on the Service and Support of one's Customers. The feature differences are that Partner Portal exposes the Leads and Opportunity objects whereas the Customer Portal does not. However, only the top tier of Partner licensing (Gold Partner licenses) exposes Case object whereas this is standard in the Customer Portal. 82. Give will workflow? one example where you use а trigger instead of Workflow allows us to perform certain operation on only one object but if we required performing operations/tasks/updates on multiple objects then we use trigger instead of workflows. 83. **Explain** the lead conversion salesforce? process in When you convert a lead, the standard lead fields are automatically converted to the new account. optionally, an opportunity using the information from Custom lead fields are converted to custom account, contact, and opportunity fields as specified by your administrator. All open and closed activities from the lead are attached to the account, contact, and opportunity. Dashboards cannot be created which kind Reports? on Dashboard cant be created using Tabular reports. (If we specify row limit, we can create dashboards tabular reports also) 85. What is the difference between Task Events? and An event calendar is event scheduled for а specific day and time. Examples of events are: Meetings 1) 2) Scheduled Conference Calls A task is an activity not scheduled for an exact day and time. You can specify a due date for a task or there may not be a particular time or date that the tasks or activities need to be completed by. Examples of tasks are:

A person account is an individual consumer with whom you do business, such as a financial services client, an online shopper, or a vacation traveler. Person accounts are applicable to organizations that

that

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calls

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accounts?

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86.

operate on a business-to-consumer model as opposed to a business-to-business model. 87. What are system fields? you name some them? Can System fields are read-only fields found on most objects. These fields are automatically updated during Examples are, Id, IsDeleted, CreatedByld, CreatedDate, LastModifiedByld, LastModifiedDate and SystemModstamp What 88. is mini layout? page A mini page layout contains a subset of the items in an existing page layout. Mini page layouts inherit record type and profile associations, related lists, fields, and field access settings from their associated page layout Management 89. What is Customer Relationship (CRM)? Customer Relationship Management (CRM) and Customer Experience Management (CEM) are about ensuring that your customers receive the best possible service from your organization. It is the drawing together of all the resources within your business to work for your customer to maximize your value to business. your their 90. Do install anything I need to my workstation(s) to use Salesforce.com? on No! You can start using Salesforce.com through any web browser; however some extended functionality requires you to use Microsoft Internet Explorer because features such as mail merging from Salesforce.com to create a Word document require the installation of a small ActiveX plugin. 91. What if Т find fault in Salesforce.com? happens Salesforce.com incorporates an extensive help and 'how do I do that' system that is fully searchable. If you can't find wer there why not ask one our experts? 92. Can Т applications with Salesforce.com? existing in conjunction use mv Salesforce.com comes with a number of tools for integrating it with applications such as Word, Excel and Outlook. There is also a large pool of custom written paid for Apps and Plugins available at the 'Salesforce AppXchange. Further to this some versions of Salesforce,com provide access to the Salesforce.com API and if you have access to the skills of a Developer he will be able to learn to write code that might for example get Salesforce.com functioning with an existing Microsoft SQL Database. 93. What is Lead? A Lead is not yet a customer but any person or organization or company they may be interested in your company purchasing your product or using your services, you can import lead information into Salesforce manually enterina or importing from outside 94. What is Contact? а A contact is any point of contact individual or influential directly associated with the account and possibly one or more opportunities. Information gathered about contact including name, phone number, address, position, and company and email information

Lead

conversion?

95.

Explain

Lead can be converted in salesforce.com and the converted information is mapped to the appropriate business objects Account. Contact or Opportunity The system automatically maps standard lead fields to standard account, contact, and opportunity fields · For custom lead fields, your administrator can specify how they map to custom account, contact, and • The system assigns the default picklist values for the account, contact, and opportunity when mapping any standard lead picklist fields that are blank. If your organization uses record types, blank values are with the default picklist values the new record of · If the lead has a record type, the default record type of the new owner is assigned to records created during lead conversion. What 96. is а Web-to-Lead? Web to Lead is an online form to capture lead information and this will be published on your website. 97. What is an Auto-Response Rule? Auto response rules are rules configured to send an email/response to the users/group. determines which Email Template to send to cases generated via Web-to-Case 98. What is Case? а Case is a logged issue or problem or Detail description of the problems, questions and feedback gathered customers. your Cases created by can be email Manually entered from а phone call or an Automatically create Case from an email (Emailto-Case)

Automatically captured using Web site (Web-to-Case) functionality Create Case in Outlook Edition а be assigned Rules Mav either manually or automatically Assignment via What 99. is Case Queue? а

Case queue is a virtual storage bin that can be used to group cases based on criteria such as skill requirements. product categories. customer types, or service levels. Users visibility into the Case Queues to which thev members are Cases remain in the Queue until they are assigned to or taken by individual users

100. What is a Case Assignment Rule?

Case Assignment rules determines how Cases are automatically routed to User or Queue Contains Rule Entries, pre-defined business rules that determine Case routing

101. What is Web-to-Case?

Web to Case is a method of capturing a problem/query from the customers. A web form that is published to a web site and Customers use to submit inquiries online

102. What is Email-to-Case?

Email to Case is a process of automatically creating a case when an email is sent to one of your company's email addresses.

103.	What	is	ar	า	Escalation	n Rule?
Escalation rules (age based	are rules, autom		alates an un e-defined		e within a business	certain period of time over) criteria
104.	What		are	Вι	usiness	Hours?
Business	hours	are	organization	's ho	ours	of operation
105.	What		is		а	Solution?
 Enables Enables Customers Content-Rich sintegrate images into What Solutions Categoric What The suggeste customers solve Suggeste Cases 	search f Solutions are an their Mechanism may b es make are d solutions feat e a particular	rich solutions is pe asso up ure displays case from	to to ciated t a Sol	completely a org o one ution Ca Suggested relevant solu	p to quickly Solution which allo kt solve ganize or ategory	ws solution writers to and a problem Category? Solutions more Categories tree structure Solutions? may help users and Self-Service portal. the following:
Self Case	auto-respo	nse	rule	es	and	Service Portal emails
106.	What	is	the	;	Self-Service	e Portal?
Self service port Knowledge		icated porta	l which prov Solutions	rides 24/7 onl and	line suppor Web-to-C	t and contains Public ase functionality
107.	What		is	the		AppExchange?
	a Website Ow Download &					enables Partners and s per the need.
108. Jun	np Start	Wiz	ard	vs. St	andard	Wizard ?
The Jump Start The Standa			p approval useful fo			just a few minutes proval processes.
			eate an appr	oval process		Wizard with a single step. allowing Salesforce to for you.
• Use it w	andard wiza hen you wa izard consists of	nt to fin		the steps	in your	Wizard proval processes. approval process. ess and another setup

wizard	that	allows	you to	define	each	step	in the	e process.
109.		Parallel		Appro	val	R	outing	?
approva	l from re an appro	all the	approve	ers or	wait fo y combinat	or approva	al from	e step Wait for any one d related users step
110.		What	is		the	Imp	ort	Wizard?
Objects	or Vizard can	Solutions.	This is	s availab	le only	for S	System	Leads, Custom Administrators. ates based on ID
Contact Custom Salesfor	Objects of		_	updated pdated base or	based ed on Cus	on matc stom Object exte	names, S	ail address olutions titles, ID
111.	Wha	t is	the	e in	put	for	Import	Wizard?
We	need t	o provid	e CSV	file	as a	input	to Impo	ort Wizard.
112.		Explain		Force.co	m	Data	ı	Loader?
Data	oader is a Loader it to	support insert, up	se wizard for	all lete, or e	pports larg objects, extract, c	including or upsert	up to mi custor Salesfor	llions of rows n objects ce records.
113.		When	to		use	Da	ata	Loader?
You You You You You	need eed to k want want to want	to schedul	loa in object e regular da ble to export	that is no	ds, su	ich as		
114.	V	Vhen	to	us	е	web-base	ed	importing?
		u need t	ading o import by uploadi	fewer is suppo ng records a lead		the web-l		records. cort wizards. contact email address.
115.		What	is		the	Re	ecycle	Bin?
Recycle days	bin is a s	pecial folder	provided b	y Salesforce	c,com, hous	ses deleted (data for ap _l	proximately 30

Data can be recovered during this time period. Data stored in recycle bin is not counted against storage limit

If your organization reaches its Recycle Bin limit, Salesforce automatically removes the oldest records if

116.		WI	hat		are			Trend			Reports?
Trend	reports	are	reports	s built	on	the	data	specified	d ove	r a	period.
117.			WI	hat			are				Charts?
Charts a Charts	are grap Type		epresenta Horizont		data Bar,	of a Vertica	single I I	Summa Bar,	ary or Line	Matrix and	Report Pie
118.		What		are		Custor	n	Re	eport		Types?
DefineSe	custom re	ationship hich eport typ	os betwe objects'	een objec fields display re	cts displa can esults fro	yed to be m an c	users used	creating as rith or wi	and cus columns	tomizing in related	g reports reports d objects
3 360	e willer	i cas	ocs we	ere cic	oseu v	vitii S	olutions	, and	WITICIT	WEI	e not.
119.		Wha	it		is		Condit	tional		Hig	hlighting?
119. Conditio We 120.	onal highl can us	ighting	is used	to high				d matrix	reports report	summ	hlighting? ary rows highlight. hboards?
Condition We 120. Dashboareports. Dashboareports. Matrix Running	ards are \ ard and S User	ighting se up	is used to Wha	to high 3 cont tions of ker have ts can	light the onditions ey busine	max ess infor ip ised a	ary and imum are mation a to as sou	d matrix per and show	informat 20 ports f	summ to Das ion from con for da shboard	ary rows highlight. hboards? n multiple mponents shboards Data
Condition We 120. Dashboareports. Dashboare Matrix Running Dashboare	ards are \ ard and S User	ighting se up /isual re can cummary determin	is used to What presentation reportings to refresh	to high 3 cont tions of kee have ts can he leve	ey busine be u	max ess infor ip ised a	ary and imum are mation a to as souless	d matrix per and show urce re	informat 20 ports f	summ to Das ion from con for da shboard	ary rows highlight. hboards? n multiple mponents ishboards
Condition We 120. Dashbook Matrix Running Dashbook We can 121. Chart: Table: Metric: Gauge:	ards are \ ard and S g User ard email a D	ighting se up /isual re can tummary determines ashboard Explair Graphicalisting igle da	is used to Wha presentat report nes t refresh d n al of ata va	to high 3 cont tions of ke have ts can he level different the tellue —	ey busine be u vel of ferent esentation op or drawn	max ess infor up used a acc can	ary and imum are mation a to as souless Dash of tom the	d matrix per and show the be aboard records Grand	informat 20 ports f e Das report from Total	summito Dastion from con or da shboard Com a of a	ary rows highlight. hboards? n multiple mponents shboards Data Scheduled uponents? results report report
Condition We 120. Dashbook Matrix Running Dashbook We can 121. Chart: Table: Metric: Gauge:	ards are \ ard and S g User ard email a D A	ighting se up /isual re can summary determinashboard Explair Graphicalisting agle da ata value	is used to Wha presentat report nes t refresh d n al of ata va	to high 3 cont tions of ke have ts can he level different the tellue —	ey busine be u vel of ferent esentation op or drawn	max ess infor up used a acc can	ary and imum are mation a to as souless Dash of tom the	d matrix per and show the be aboard records Grand	informat 20 ports f e Das report from Total	summato Dassion from con for dashboard Com a of a ne Gran	ary rows highlight. hboards? n multiple mponents bathboards Data Scheduled ponents? results report report d Total of
Condition We 120. Dashbook reports. Dashbook Matrix Running Dashbook We can 121. Chart: Table: Metric: Gauge: a 122.	ards are \ ard and S g User ard email a D A	ighting se up /isual recan summary determinashboard Explair Graphicalisting igle data value	is used to What presentation reporting to refresh to the control of the control o	to high 3 cont tions of ke have ts can he lev diff repre the te lue –	ey busine be to the self of the self of the drawn point on a self of the self	max ess infor ip used a acc can to from a defined	ary and imum are mation a to as sou ess Dash of thom the d spectru	d matrix per and show arce rejudent be arboard records Grand am – draw	informat 20 corts format report from Total vn from th	summito Das ion from con for da shboard Com a of a ne Gran	ary rows highlight. hboards? n multiple mponents shboards Data Scheduled aponents? results report report d Total of report ampaign?

Also,	Individual	who	has	responded	to	Campaign
124.	Who	has	aco	cess	to	Campaigns?
campaign • However, of delete • An administrat • In addition, Marketing	in your organization of the control	keting Users v and c e Marketing U as in import leads the "Impor	with the app configure ser checkbo a and use the t Leads"	ropriate user perm advanced ox on a user's perso a Ma e campaign import permission and	issions can cr campaign onal informatio arketing wizards if they I "Edit" on itions, and av	reports. eate, edit, and setup. on to designate User. v also have the campaigns).
125.		What		is		Workflow?
	a Force.com busine sign tasks	ss logic engine based		s us to automatical the rule		s, update fields ve define
126. Wh	at all the	functions	can	be performed	d using	Workflows?
Salesforce Update Co	Workflow Create Create field values Create and	gives and to either d se and	and	outbound	·	automatically: alerts tasks on formulas messages actions
127.	What	is	i	a W	orkflow	Rule?
Workflow rul	es are set of instr	uctions specif	y the criteri	a for when the w	orkflow should	d be activated
128. Wha	at are differe	nt workflov	w evalua	tion criteria's	and exp	olain them?
Below	are	the	workflo	ow eva	aluation	criteria's
• • WI	When the record is	the record			ery time	created it's edited et the criteria
129.	What	is	á	a W	orkflow	Task?
Workflow Ta	asks assign a ta	ask to a Us	ser (Only	Users) according	to a partic	ular template
130.	What	is	а	Workflow	Email	Alert?
	nail Alerts are action be sent to any					
131.	What	is	a	Workflow	Field	Update?
Workflow fiel workflow	d updates are action	ons that update	e a particula	ar field on the reco	ord that initiall	y triggered the rule
132.	What		are	workflo	w	actions?

Workflow actions are actions performed when a workflow rule is triggered. For example, Field updates, Alerts. Tasks and Outbound Messages 133. Can define single workflow multiple objects? we rule on No. Every workflow be based single Object must on а 134. What is Time-Dependent Workflow? Time dependent workflow actions are actions that occur before or after a certain amount of time elapsed. Time dependent workflow actions can be used to fire tasks, field updates and Email alerts. We must specify time trigger for Time dependent workflows, this trigger define when Time dependent workflow should What evaluation 135. different workflow are criteria's and explain them? **Below** the workflow evaluation criteria's are When the record is created When the record is created and every time it's edited When the record is created and any time it's edited to subsequently meet the criteria What workflow outbound 136. are messages? Workflow Outbound Messages is an action that sends data to an external web service What 137. Queues? are Queues are collection of records that don't have Owner. an 138. define Queues? How can we Queues can be created by going to Queues in Manage Users, Enter Queue Email and by selecting Send Email Members and select an Object under Supported Object 139. Time-Dependent Workflow Considerations Maximum 10 time triggers per of rule Maximum of 40 actions (10 x 4 types) per time trigger, and 80 actions per workflow rule Workflow user must be set uр before creating time-based Precision limited to hours or days Cannot leads with time-dependent actions Workflow Queue convert in the cannot be added to or removed from activated Not possible to create a time-dependent action associated to a rule with a trigger type of Every time the record created updated is or 140. When the Add Time Trigger button is unavailable? The evaluation criteria are set to Evaluate the rule when a record is: created, and every time it's edited. activated. rule is The rule is deactivated but has pending actions in the workflow queue. Time-Dependent Workflow 141. Limitations: Time triggers don't support minutes seconds. or reference Time can't following: triggers the DATE or DATETIME fields containing automatically derived functions, such as TODAY or NOW. Formula fields that include related-object merge

You	can't	add	or	remo	ve	time	1	trigge	rs	if:
•			The	e v	vorkflow	, ru	ıle	is		active.
•	The	workflow	rule is deacti	vated but	has	pending	actions	in	the	queue.
•	The workflow	rule evaluation	on criteria are	set to Eva	luate th	e rule whe	n a reco	ord is:	crea	ted, and
every		t	ime			it's				edited.
•		The	workflow	rule	is	included	in	а		package
142.		What	is		А	pproval			Pro	cessina?

Approval process is a force.com business logic engine that allows you to specify a sequence of steps that are required to approve a new record. Each step allows one or more designated approvers to accept or reject the record.

143. Approval Terminology

- Approval Request: An approval request is an email notifying the recipient that a record was submitted approval and his or her approval requested. Approval Steps: Approval steps assign approval requests to various users and define the chain of approval for particular approval process. а - Each approval step specifies the attributes a record must have to advance to that approval step, the user who can approve requests for those records, and whether to allow the delegate of the approver to the
- The first approval step in a process also specifies the action to take if a record does not advance to that step.
- Subsequent steps in the process also allow you to specify what happens if an approver rejects the request.
- Assigned Approver: The assigned approver is the user responsible for approving an approval request.
- Initial Submission Actions: are the actions that occur when a user first submits a record for approval.
- For example, an initial submission action can lock the record so that no users can edit it during the approval
- Initial submission actions can also include any approval actions such as assigning a task, sending an email,
 or updating a field.
- Final Approval Actions: are the actions that occur when all approval requests for a record are approved.
- Final approval actions can include any approval actions such as email alerts, field updates, tasks, or outbound
- For example, a final approval action can change the status to "Approved" and send anotification email.
- Final Rejection Actions: are the actions that occur when all approval requests for a record are rejected.
- Final rejection actions can include any approval actions such as email alerts, field updates, tasks, or outbound
- For example, a final rejection action can change the status to "Rejected", send a notification email,
 and unlock the record so that users can edit it before resubmitting.
- Record Locking: is the process of preventing users from editing a record regardless of field-level security
- Records that are pending approval are automatically locked by Salesforce.
- Users must have the "Modify All Data" permission to edit locked records.
 The Initial Submission Actions, Final Approval Actions, and Final Rejection Actions related listscontain a
- record lock action that you can edit if necessary

 Outbound Messages: send the information you specify to an endpoint you designate.
- You can set up workflow rules and approval processes to send outbound messages to an endpoint as a means of getting information to an external service.

144. Approval Process Checklist

Use the following checklist to plan your approval process:

- Prepare an Approval Request Email

	_										_			
_	De	termin	e	the			Approv	/al			Reque	st		Sender
_		Dete	rmine		th	ne			As	signe	d			Approver
_		Dete	rmine		th	е			Del	egate	ed			Approver
_	Decide		if	your	арр	roval		prod	ess		need	S	а	filter
_		Dec	ide		initia	al			sub	miss	ion			actions
_	Decide	if	users	can	appro	ve	requ	ests	fro	om	а	wire	less	device
_	Determine	if	users	can	edi	t	record	S	that	а	re	awaiti	ng	approval
_	Decide	if	rec	ords	shou	ld	be		auto-	-appr	oved	0	r	rejected
_	Determ	ine	hov	V	many		leve	ls	,	your		proc	ess	has
_	Determine	the	actions	when	an	app	roval	req	uest	is	appr	oved	or	rejected.
145	. What	i	s S	tandard	ar	nd	Cu	stom		Field	ls	in	S	alesforce?
Cto	ndard													Fielde

Standard Fields Standard Fields are pre-defined in Salesforce and you cannot delete standard fields but you can remove non-required standard fields from page Standard Field customizations include the ability to change standard field labels and tabs You can change the display labels of standard tabs, objects, fields, and other related user interface they better reflect vour organization's business requirements. Renamed labels - for example, "Accounts" changed to "Companies" - display on all user pages, in Offline Outlook Edition, and in It's important to note that all pages in the Setup area use the default, original labels. Reports and views are not renamed based on the new label value

Custom Fields Capture information unique to your business process by creating custom fields with custom field help for each of the tabs that organization your uses Recycle Bin for Deleted Custom Fields Custom fields deleted permanently after 45 are days

146. Is it possible to change the existing data types of custom fields, if Yes please explain?

Yes. It's possible but changing the data type of an existing custom field can cause data loss in the following situations:

Date/Time Changing from type Date to or Changing to Number from anv other tvpe Percent Changing to from other type any Changing Currency from other to any type Changing from Checkbox to any other type Changing from **Picklist** (Multi-Select) other type to any **Picklist** (Multi-Select) from Changing to any type except **Picklist** Changing from Auto Number to any other type Number Changing Auto from type except Text to any Changing from Text Area (Long) to any type except Email, Phone, Text, Text Area, or URL

147. What is a dependent picklist?

Dependent fields can help make your data more accurate and consistent by applying filters. A dependent field works in conjunction with a controlling field to filter its values. The value chosen in the controlling field affects the values available the dependent field. picklist 300 the maximum number of values allowed in а controlling multi-select picklist cannot be the controlling field for а dependent field A custom

Field	Type	Controlling	Field	Dependent	Field
Standard		Picklist		Yes	No
Custom		Picklist	`	Yes	Yes

Custom Standard Custom		Multi-Select Checkbox Checkbox		No Yes Yes	Yes No No
148.	What	is	а	Business	Process?
				t, and lead lifecycles	
Available Busin	2290	g. cape,			Processes
		rant agles proces	anna that inclu	de como en ell ef f	
available	es – Create diffe for	the	opportuni	de some or all of t ty Stage	•
Support Proces available	sses – Create diff for	erent support pro the	ocesses that inc Case	clude some or all of s Status	the picklist values field
Lead Processe for	s – Create differer the	it lead processes Le		me or all of the picklis Status	st values available field
Solution Proceavailable	sses – Create diff for	erent solution pro	ocesses that ind Solution	clude some or all of Status	the picklist values
149. What	is Web-to-	Lead and	Web-to-Case?	(More explan	ation needed
	record created threlead owner	•	nd or Web-to-Ca automated	se will set the record case use	• •
150. On	which ta	ıbs can	I create	multiple re	ecord types?
Multiple record Documents,	d types may be	created for ever and	y tab, with the	e exception of the I Reports	Home, Forecasts tabs
151. Wh	at happens	if I	try	to add new pic	klist value?
You will be	prompted to	select which	record types	should include	the new value
152.	Why	use		Field-Level	Security?
			n Troubleshoot	e layouts) to enfor ting Tools Field ac controls Field	ccessibility views
 Field access s restrictive For example, if 	settings can be def field access a field is required	ined using both fi setting	ield-level securit of the	. This is done from ty and page layouts. H two will a ly in the field-level sec	However, the mos always apply curity settings, the read-only
field • Hiding a field	from a user using	g FLS also hides	that field from	list views, search res	sults, and reports

Login hour sets the hours when users with a particular profile can use the system Login IP Ranges sets the IP addresses from which users with a particular profile can log in Notes: profiles restrict users' You customize to ability to log in to Salesforce. can · You can set the hours when users can log in and the IP addresses from which they can log in. If a user logs in before the restricted hours, the system will end the user's session when the restricted hours begin. Two IΡ **Options** Restricting Ranges for Access via org 1: Add Trusted IΡ Ranges entire for your Option Add Trusted IΡ Ranges Profile by Profile basis 2: on а 154. What is User Record? а User record possesses key information about a user and each has its own unique username. properties οf User records User logs in with username and password Users active inactive: an active uses license can or user Users are associated with а Profile Role Users usually associated with are а What 155. is Record Owner? а Record owner is he user (or queue for Cases and Leads) who controls or has rights to that particular data record. An has the following special privileges with the assumptions: Owner below View and edit capabilities Transfer capability ownership change Deletion capabilities **Important** assumption: Object permissions enabled The Account Owner, Opportunity Owners and Case Owners may or may not be the same user. 156. What Wide Defaults? Organization are OWD Defines the baseline level of access to data records for all users in the Organization (not including records owned by the user or inherited via role hierarchy) Used to restrict access to data Access levels to Private **Public** Read/Write **Public** Read/Write/Transfer **Public** Full Access **Public** Read Only 157. What Role Role Hierarchy? is а and Role: visibility Controls the level of that users have to organization's data an An be role user may associated to one

data

Users inherit the special privileges of data owned by or shared with users below them in the hierarchy

company's

up

the

forecasting

Hierarchy:

and

organization

visibility

Role

Not

Controls

record

necessarily

roll

Notes:

- If using Customizable Forecasting, there is a separate forecast role hierarchy. • EE can create Account, Contact, Opportunity and Case Sharing Rules. PE can ONLY create Account Sharing Contact Rules.
- · Assuming no sharing rules have been created, users in the same role cannot access one another's

Example: Org Wide Default settings for opportunities are private. Creating a role and adding two users to does not allow those users access to one another's • "Grant Access Using Hierarchies" allows you to disable the default sharing access granted by your role and territory hierarchies. This option can be changed for custom objects that do not have their organization-wide default sharing setting set Controlled

158.		What		is A	Access	at	the	Ro	ole	l	Level?
Access		is		defined	when		creating	9	а		role
Level	of	access	to	Opportunitie	s associated	d to	Accounts	owned	by	the	role
Level	of	access	to	Contacts	associated	to	Accounts	owned	by	the	Role
Level	of	access	to	Cases	associated	to	Accounts	owned	by	the	role
Level		of		access	options		depend	(on ⁻		OWD

Notes:

- 500 roles your You create up to for organization can • Every user must be assigned to a role, or their data will not display in opportunity reports, forecast rollother displays based
- · All users that require visibility to the entire organization should belong to the highest level in the
- It is not necessary to create individual roles for each title at your company, rather you want to define a hierarchy of roles to control access of information entered by users in lower level roles · When you change a user's role, any relevant sharing rules are evaluated to add or remove access as necessary

159.		What		is		а		Shari	ing	Rule?
Sharing These Irrelevant	rules are		automated exceptions for	rules Publi	that to	0	access nization Read/Write	to	groups Wide	users Defaults nizations
Levels •	of		Access	tha	t Read	can	be		grante	are Only ad/Write

- Sharing rules should be used when a user or group of users needs access to records not granted them either role hierarchy setup the organization the or wide default
- rules open up access whereas organization wide defaults restrict access.
- · You can use sharing rules to grant wider access to data. You cannot restrict access below your organization-wide default
- Sharing rules apply to all new and existing records owned by the specified role or group members.
- apply active inactive rules to both and · When you change the access levels for a sharing rule, all existing records are automatically updated to
- the new access
- · When you delete a sharing rule, the sharing access created by that rule is automatically removed.
- When you transfer records from one user to another, the sharing rules are reevaluated to add or remove the transferred records as
- · When you modify which users are in a group or role, the sharing rules are reevaluated to add or remove access as necessary.

 For contact, opportunity and of account associated with the ship to view Managers in the role hierarch hierarchy have You can edit the access level the 	ared contact, oppor the y are automatically from	tunity or case the account granted the same a	rule automatically of as access that users sharing	gives them access well. below them in the rule.		
160. What are the ty	pes of Sharing	Rules in S	Salesforce and	explain them?		
Sharing rules p	present in	salesforce	are	as below.		
Account Based Set default sharing access opportunities	on who			Rules: account s, contracts, and		
Cannot use with: Ter OpportunityBased	ns the contact ccess for indivi- ritory Managemen Sharing on who	nt and B2I (Person Account) Rules the	ciated accounts enabled orgs (EE/UE): opportunity		
Case Based Set default sharing	Sharing on w access for	Rul ho ow individual case	vns the			
Lead Based Set default	Sharing on w sharing	Rule ho ov access	es wns the for individ			
Custom Object Based on Set default sharing access for	who individual custom o	•	Rules the custo			
161. Best Praction		· ·	Contact Shar	•		
 Account Org-Wide Default must be set to at least "Public Read Only" in order to set the Contact Org-Wide Default to "Public Read/Write". To share ALL contacts in the system with a group of users or a specific role, create a sharing rule that uses the "All Internal Users" (or "Entire Organization") public group as the owned by option. Use "Roles and Subordinates" over "Roles" where possible to minimize the number of sharing rules. 						
162. What	is	а	Public	Group?		
Public group	is	а	grouping	of: Users		
• Pu	blic	Groups	S	(nesting) Roles		
RoMixture	les of any	and of	these	Subordinates elements		
• Mixture of any of these elements Used in Sharing Rules – for simplification (when more than a few roles need to be shared to) Also used when defining access to Folders and List Views For example, if a new user is assigned a role that belongs to an existing public group, that user will be						

automatically	added	to	the	public	group		
163.	What	is	Ma	anual	Sharing?		
Owner, anyone	aring is above owner in r ntacts, Leads, Cas rules, in		and administrator and Opportunity	can manually			
164.	What	are	Folders	in	salesforce?		
Folders are us Access Access is	ed for organizin is define explicit –	•	olates, documer Read roll up	or	nd dashboards Read/Write ble hierarchy		
Notes: You can modify the contents of a folder if the folder access level is set to Read/Write. Only users with the "Manage Public Documents" or "Manage Public Templates" can delete or change a Read Only folder. The Documents tab does NOT contain version control capabilities To search documents, users must use Documents search. The sidebar search does NOT search Documents, Solutions, Products, and Reports but does search Assets and Custom Objects The Create New Folder link will only be visible to users with the "Manage Public Documents" permission The size limit for documents uploaded is 5MB. The size limit for document filenames is 255 characters including the file extension							
165. What	are the differ	rence betwee	en Sandbox	and Develop	per Editions?		
Sandbox Developer Edition The salesforce.com Sandbox environment is an exact copy of your salesforce.com instance. Developer Edition was an edition created for development of integrations and apps, specifically for the AppExchange. You can copy your live instance to a sandbox environment. You have to perform manually from sandbox to developer edition. You can either copy your configuration and data into a sandbox environment or just the configuration. You cannot copy your configuration or data onto the Developer Edition, but you can customize it to match							
your	instance's	I	ook	and	feel.		
166. How to	o restrict the	user to	see any re	ecord let's	say CASES?		
Set up cases sharing to be private. If both users are admins or have view all records on cases, then that overrides private sharing.							
167.	What	is		External	ID?		
External ID is External External ID External	a field or flag ID are restri ID can	is	tom field of ty Case Three ID Custom		nber or Email INSENSITIVE per object only.		
168.	What	are	R	Relative	Dates?		
Related dates These are Examples: Available	dynamic This Week		Views and ge, based Month, ters (not	on cu	for filtering. urrent date 90 Days sensitive)		

Last	This Last Next This Last Next	X	Today Yesterday Tomorrow Week Week Week Month Month Month Days
• Next		X	Days
•			Quarter
•			Year
•	Fiscal		Quarter
•	Fiscal		Year

169. How is Role Different from the Profile?

Roles and Profiles are two different concepts in Salesforce.com, Some of the basic differences are:

Profile helps to put restrictions on the Object where as the Role helps in opening the records to the users

above the Role hierarchy

Profile manages the Salesforce.com License, Tabs Settings, Record types, Page layouts, General Settings, Administrator Settings etc; Role hierarchy does not do any of these things

Profile is Mandatory, Role is not

170. different mandatory? What are the ways of making field salesforce make fields mandatory we can by ways

1. Page Layout: - Field can be made mandatory from the page layout when it needs to be made mandatory for set of users 2. Field Level Security: - Field can be made mandatory from the FLS when it needs to be made the users in the Organization and even from 3. Validation Rule: - Field can be made mandatory from the Validation Rule when it needs to be made mandatory for user who is using the same Page layout used by other users Salesforce.com recommends using the Page Layout option for making the field mandatory.

171. What are the Different Ways in which leads can be created in salesforce.com?

Some of the ways in which leads can be generated and created in salesforce.com are

Walk In to a company: User comes to the company office and then Salesforce.com rep manually creates

the

Lead

- Data Base bought by the company and then leads loaded via Data Loader/Import Wizard in salesforce.com
- Leads created because of the Campaigns, Seminars, and Tradeshows Web to Lead: Users registering on the website of the company.
- Email to Lead & SMS to Lead can be custom build for the Organization

172. Can a Contact be part of Partner Portal as well as Customer Portal in salesforce.com?

Yes, a contact can be part of a Partner Portal as well as Customer portal in salesforce.com. Customer Portal and Partner portal depend on the user object and are not related to the contact object. So to enable both portals for a Contact we need to create two users which will utilize two different salesforce.com licenses, one license for Customer portal and other for Partner portal. Both users created for a same contact will have two different profiles, One for Customer portal and other for Partner

173.	When	are	the	Reco	rd typ	pes used?	
Record To To en			layouts		following users based or two different u	two cases on their profiles sers using the same layout	
174.	What	i	are	P	rofile	Components?	
Objective Per W	Which Which Which ect permission Which field missions tha /hich Apex Which which duri	record pa ns that allow ds within t allow use classes desktop ing which a	abs types ge users objects rs to m and Vi clie nd IP a	users are layouts to create, r users anage the sualforce ints users	om which us	to users ers see nd delete records w and edit apps within it	
175. Exp	lain Profile	Vs Permi	ssion Se	ets Permiss	ions and	Access Settings?	
The following table shows the types of permissions and access settings that are specified in profiles and permission sets. Some profile settings aren't included in permission sets.							
Permission Assigned Tab Record Page Object Field User Apex Visualforce Service pro Desktop Login Login	permissions class	page	and access acces	TRI assignmer assignmer T T syster	RUE UE nts TRUE RUE TRUE TRUE TRUE TRUE TRUE dentity provider	ermission Sets? TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE	
176. W	/hat are	the Si	andard	Profiles	available	in Salesforce?	
categories • Mark	dard User Manager – Sta keting User – act Manager – S Read-Only	 Can andard User pe Standard User pe — 	view, e rmissions + er permissi permissions Cal	ons + Can + Can edit, ap n or	delete their published solut import leads for prove, activate, aly vie	or the organization and delete contracts	
177. Standard	What Busine	are ess c	Sta objects	andard are	Business mention	Objects? ed below.	

Object Description Campaigns A Campaign is any marketing project that you want to plan, manage, and track in Salesforce.

Leads A Lead is any person, organization or company that may be interested in your products. Sometimes Leads are referred to as Prospects or Suspects. Leads are not yet customers. Accounts An Account is an organization, individual or company involved with your business such as customers, competitors and partners that you wish to track in Salesforce Contacts A Contact is any individual or influencer associated with an account that you want to track in Salesforce

Opportunities An Opportunity is any potential revenue-generating event ("sales deal") that you want to track in Salesforce

Cases A case is a detailed description of a customer's feedback, problem or question Solutions A solution is a detailed description of a customer issue and the resolution of that issue. The collection of your organization's solutions is sometimes referred to as the solution knowledge base Forecasts A forecast is your best estimate of how much revenue you can generate in a quarter Documents

Reports Reports are summaries and analyses of your data, which you can display or print Dashboards Dashboards give you a real-time snapshot of corporate metrics and key performance indicators. A dashboard is a group of different charts (or components) that graphically display your custom

report data

Calendar and Task Activities are both tasks and scheduled calendar events. You can define and track activities for many different objects, including campaigns, accounts, contacts, and leads Products Products are the individual items that you sell on your opportunities. (Please note that Products are available in EE/UE and Developer and in PE for an additional fee.)

178.	What	is	S	а	Compan	У	Profile?
Company Below	profile are the	contains key	core information	information include		your company	company. profile
•	Language,		Locale	and	Т	ime	Zone Licenses
•	Storaç	ge	and Fiscal		Used		Space
•	Primary	Conta		and	Address		information Currencies
179.	What	is	a Fis	cal	Year	in	Salesforce?
Financial This is	year in s usually a		is used flength and	or an impacts	organizations forecasts,	financial quotas ar	planning.

Salesforce allows two types:

• Standard Fiscal Years are periods that follow the Gregorian calendar, but can start on the first day of any month of the year. (A Gregorian Year is a calendar based on a 12 Month Structure and is used throughout

much of the world.)

 Custom Fiscal Years are for companies that break down their fiscal years, quarters and weeks in to custom fiscal periods based on their financial planning requirements.

180. Can we use Custom financial year in forecasting?

We can NOT use Custom financial year in forecasting. But Customizable Forecasting must be enabled for use with Custom Fiscal Years

181. How can you determine that email is actually sent or not from the salesforce?

There is an Email log that you could use. It's available in the setup menu under Monitoring. It's only for the past 30 days and you would have to manually check it. From the email log page: "Email logs describe all emails sent through salesforce.com and can be used to help identify the status of an email delivery. Email logs are CSV files that provide information such as the email address of each email sender and its recipient, the date and time each email was sent, and any error code associated with each email. Logs are only available for the past 30 days."

182.	In sale	sforce	which	fields	are	indexed	а	utomatically?
The	following	f	ields	are	indexed		ру	default:
•	primary	keys	(ld,	Nam	ne and	O,	wner	fields),
•	foreign	keys	(lookup	or	master-detail	relati	onship	fields),
•	audit	(dates	(such	as		LastN	lodifiedDate),
•	Custom	fields	marked	as	External	ID	or	Unique

183. Give any scenario when you cannot change the currency field type to numeric type. When the field is used either in Apex class or trigger

184. Consider a scenario where you have created a Visualforce page and Controller. You want to restrict the controller action for users which are logged in using "Grant Login Access". How to achieve this?

When System admin logged in on the behalf of any other user, On upper right corner message is displayed that user is logged-in on behalf of some other user. In Visualforce page we can search for the element with class name present or not? If the element with that Class name exist means logged-in user is not an actual user.

185. How to get the debug log of Connection user in salesforce to salesforce Integration?

When configuring Debug Logs, you cannot choose a Salesforce to Salesforce Connection User from the User Lookup, but there is a workaround to achieve this.

&UserLookupInput=Connection%20User

Replace XXX with your salesforce instance, UserLookupInput_lkid is the ID of the Connection User and UserLookupInput is the User name. You can find the user ID of the connection user, by inspecting the CreatedByld for a record created by this user. (eg. via eclipse or Force.com explorer)

186. We have a "Time Based Workflow" and there is Action scheduled to be executed. If we Deactivate the workflow, Scheduled actions will be removed from queue or not?

Even after deactivation of workflow, its action will be active in queue.

187. We have "Time Based Workflow" and there is action scheduled to be executed. Can we delete that workflow?

If a workflow has any pending time dependent action, then we cannot delete the workflow.

188.	How	to	clear	the	Time	based	workflow	action	queue?
Two		V	ways		to		achieve)	this:
1.	Make		criteria	false	Э	for	all	those	records.

- 2. Navigate to "Set up | Monitoring | Time Based Workflow", search for scheduled actions and remove from gueue.
- 189. While creating workflow on Task, what difference observed on available actions?

"Send Email" action is not available while creating workflow on task.

190. When loading data into date fields such as Opportunity Close Date using the Data Loader, the date displayed in the application is sometimes one day earlier than the date in the file. What may be the reason and solution?

The reason for this is that fields such as Close Date are actually date/time fields. When a date is loaded without specifying the time, the time is defaulted to 00:00 – midnight. When another user is in a time zone which is behind the current user's time zone, the date will show on the previous day. For example:

- 20 2008 00:00 **Paris** 19 August 2008 23:00 London August in is in Similar issues can arise when daylight savings time begins or ends. Two simple solutions to this are:
- 1) Specify a time as well as a date when loading dates using the Data Loader. Or 2) Switch your PC's time zone to Hawaiian time before starting up the Data Loader.
- 191. Explain dynamic Dashboard.

Dashboard which is running under current logged in user permission is known as "dynamic Dashboard". At the most 3 dynamic dashboards can be built. This is available in Unlimited, Enterprise and Developer edition. This type of dashboard cannot be scheduled for refresh. IT must be scheduled manually.

192. What is analytic Snapshot in salesforce?

Analytic snapshot capture and store the data at pre decided intervals. It captures data from report and saves in custom object as per schedule. It only supports tabular and summary report as asource report. It does not support matrix report. The field type in target object must be same as source report object field.

193. What are the features of "Manage Members" in campaign records?

Campaign members are created from lead, contact, or person account records. Salesforce provides a variety of ways in which you can manage your campaign members. You can add and update up to 50,000 campaign members at a time through lead, contact, and person account reports; you can search for and add or edit multiple leads and contacts from the Manage Members page; you can add an unlimited number of leads and contacts using a CSV import file; or you can add members to a campaign one at a time from contact or lead detail pages.

194. If I want Object level accesses then what should i use from Salesforce security model?

Profile

195. In OWD (Organization wide sharing), can I change the setting "Grant Access Using Hierarchies" for Standard

Objects?

You cannot change it for Standard Objects However for Custom Objects it's possible.

196. What is Mandatory while creating User, Role or Profile?

lt's Profile.

197.In case of Master-Detail relationship, on Update of master record can we update the field of child

record using workflow rule?

No

198. In case of Master-Detail relationship, on Update of child record can we update the field of Parent record using workflow rule? Yes. Master Fields are also available for "Criteria evaluation". 199. While setting OWD (Organization wide sharing), can we change/modify the setting of child record in Master-Detail of relationship? case No. Child record is controlled by the **Parents** setting. 200. How to hide the "App Setup" Menu from user's setup page? In Profile, remove access "View Setup and Configuration". While creating new profile for user, which existing profile should If the new user is not System administrator then copy from "Standard User" profile. 202. Who reports? can run Users with permission "Run Report" and access to report folder can only run the report. 203. What is Difference between "Printable View" and "Export Details"button on report? Printable View: persisted. Formatting, grouping subtotals and are Details: **Export** Formatting, grouping and subtotals are lost. 204. What the is of "floating report header"? use If you have long tabular report, you can make the column header visible on each page as you scroll, by headers. enabling floating report 205. How to enable "floating report header"? Go to "Setup | App Setup | Customize | Report and Dashboard | User Interface Settings". Click checkbox "Enable Floating Report Headers". on 206. Which permission is required to set the running user other than you in dashboard? "View ΑII Data" in profile. 207. dashboard"? Who can access "drag and drop User with permission "manage dashboard". 208. Which report be for dashboard components? type of can used Summary and matrix report. 209. How many types of dashboard components are available? Chart, Table. Metric, Gauge, Visualforce and 210. What the difference between External ID Unique ID? is and

ID

External

This is a field that usually references an ID from another (external) system. For instance, if the customer has an Oracle Financials system that they will be linking with salesforce.com, it may be easier for them to be able to refer to the Oracle ID of account records from within salesforce. So they would create an external ID in salesforce.com and they would load the Oracle ID into that field for each account. They can then refer to that ID field, rather than the salesforce.com id.

Additionally, if you have an external ID field, the field becomes searchable in the sidebar search. You also the upsert API call with the extenal ID to refer You can have multiple records with the same external ID (though it is not recommended, as it will defeat the purpose of the external id).

ld External available for Text. Number and Email field types operations. External ld is used in upsert lf then happens. external id is absent matched insert or not lf external id matched updated. once then record will be lf external id is matched multiple times occurs. then error

Unique ID field

This is a setting for the field that will prevent you from using the same value in multiple records for the unique field. So if I create a 5 character text field and make it unique, and I create a record with the value "12345" it will not be able to create another record with that same value in the unique field. If I try to do so, I will get an error saying that the value is already in use. Often, External Ids are set with the unique property so that the IDs will be unique to each record.

211. In Profile settings, what is difference between "Modify All Data" and "Modify All"?

Modify All Data: Create, edit, and delete all organization data, regardless of sharing settings.

Modify All: Give Read, Add, Delete permission to selected Object, Create permission is not included in Modify

All permission.

212. Explain Permission sets?

A permission set is a collection of settings and permissions that give users access to various tools and functions. The settings and permissions in permission sets are also found in profiles, but permission sets extend users' functional access without changing their profiles.

For example, to give users access to a custom object, create a permission set, enable the required permissions for the object, and assign the permission set to the users. You never have to change profiles, or create a profile for a single use case. While users can have only one profile, they can have multiple permission sets.

•	Object		permissions
•	Field		permissions
•	Арр		permissions
•	Apex	class	access
•	Visualforce	page	access
•	System		permissions

Service providers (only if you've enabled Salesforce as an identity provider)

213. What is Master Detail relationship and look up relationship in Salesforce?

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, COUNT, MIN, MAX of the Child records.

Look up relationship is something like "has-a" (Containership) relationship, where one record has reference to other records. When one record is deleted then there is no impact on other records.

214. Can we convert the lookup relationship to Master Detail relationship?

We can convert the lookup relationship to master detail relationship if and only if all the existing record has valid lookup field.

215. How delete the User Salesforce? to from As per now, salesforce does not allow deleting any user; however you can deactivate the user. delete Users data from Salesforce? to 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. 217. How to restrict the user see record let's say opportunity? to any Set up opportunity sharing to be private. If both users are admins or have view all records on opportunity, that overrides private 218. What is difference between Whold and Whatld in the Data Model of Task 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

219. Where is the option of the report for the "Custom Object with related object" and what are the conditions to generate related reports?

If the parent object is the standard object provided by the salesforce like "Account", "Contact" then the there section be with related custom object. in If both objects the custom then the report will be in "Other Reports" Sections. are

Following the conditions the report of related objects: are to get On both the obiects. Reports option be enabled must The relationship between both of them must be "Master detail relationship".

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

We can provide the authentication on public sites using "Customer Portal".

221. What is the dynamic Apex?

Dynamic Apex enables developers to create more flexible applications by providing them with the ability

to "Access sObject and field describe information", "Write Dynamic SOQL Queries", "Write Dynamic SOSL Queries" and "Dynamic DML".

222. Is it possible to write the Apex code from user Interface?

You can add, edit, or delete Apex using the Salesforce.com user interface only in a Developer Edition organization, a Salesforce.com Enterprise Edition trial organization, or sandbox organization. In a Salesforce.com production organization, you can only make changes to Apex by using the Metadata API, deploy, call, the Force.com IDE, or theForce.com Migration Tool. The Force.com IDE and Force.com Migration Tool are free resources provided by salesforce.com to support its users and partners, but are not considered part of our Services for purposes of the salesforce.com Master Subscription Agreement.

223. When add Time dependent Workflow rule? vou can't action You can't add time-dependent actions to a rule if you choose Every time a record is created or edited. What are of email templates available salesforce.com? types in 1. Text 2. **HTML** with Letter Head 3. Custom **HTML** 4. Visual force You can create four different types email templates: Text ΑII email templates. users create change text 1) can or 2) HTML with letterhead - Administrators and users with the "Edit HTML Templates" permission can HTML email templates based letterhead. on 3) Custom HTML - Administrators and users with the "Edit HTML Templates" permission can create custom HTML email templates without using a letterhead. You must either know HTML or obtain the **HTML** code to insert in vour email template. 4) Visualforce – Administrators and developers can create templates using Visualforce. Visualforce email templates allow for advanced merging with a recipient's data, where the content of a template can contain information from multiple records.

225. What is Roll up summary field in Salesforce?

Roll up summary field in salesforce calculates the Count, Sum, Min or Max of particular field of any child record.

226. Can we create Roll up summary fields on child object of a Master-Detail relationship? No. Roll up summary fields can only be created on the master object of the Master-Detail relationship 227. What will happen if the Account deleted? If the Account is deleted then, Contact, Opportunity will also be deleted from Salesforce which are related Account. 228. How of the relationship fields available in Salesforce? many types There Relationship available Salesforce are Four types of the fields in Master Detail 1. Many 2. Many to 3. Lookup 4. Hierarchical (It is available only on User Object, we cannot create this relationship)

229. What are Apex Governor Limits? Governor limits are runtime limits enforced by the Apex runtime engine. Because Apex runs in a shared, multitenant environment, the Apex runtime engine strictly enforces a number of limits to ensure that code does not monopolize shared resources. Types of limits that Apex enforces are resources like memory, database resources, number of script statements to avoid infinite loops, and number of records being processed. If code exceeds a limit, the associated governor issues a runtime exception.

230. Difference between Sandbox and Development environment? Sandbox

The salesforce.com Sandbox environment is an exact copy of your salesforce.com instance. You can

copy your live instance to a sandbox environment (but you have to perform manually from sandbox to developer edition) where you can test any changes, implementations, AppExchangeapps or updates. It vour hands-on training environment without risking You can either copy your configuration and data into a sandbox environment or just the configuration. It acts exactly like your live instance, but be careful if you have workflow rules or automations because they will the sandbox I know that this sounds wonderful and if you don't have it, you are dying to know how to get it. The problem is the cost. If you are on Unlimited Edition, then cost is not a problem because it comes included. But for Enterprise, Professional or Group Editions, you have to pay... and the price is hefty; anywhere between 25k-50k per year. For a lot of companies, that is more than they are paying for their live salesforce.com instance. So how do you test salesforce.com without Sandbox? It is always suggested to develop application in sandbox instance then go LIVE. Developer Edition Developer Edition was an edition created for development of integrations and apps, specifically for the AppExchange. It is also a great tool for testing/training in salesforce.com. What makes this a great tool is the fact that it is free. Anyone can get a Developer Edition of salesforce.com. It is a standard Enterprise Edition with very limited storage space. You cannot copy your configuration or data onto the Developer Edition, but you can customize it to match your instance's look and feel. Once it is customized, you can use it for training, testing or anything else you want. It takes a little bit of work, but you can make it act and feel just like your live instance. The work is well worth it for the free price.

231. How to schedule export or take the backup of salesforce?

Step Instruction: Step by Click Setup >Data Management Data Export Schedule Export. Leaving Select the desired encoding for your export file. the default fine. is Check the Include in export checkbox if you want to include attachments in the export (optional) Leave the default Replace carriage returns with spaces if you want your export files to have spaces instead of carriage returns. Select Weekly frequency the exports. as the for Choose start and end dates. Set the end date to sometime in the distant future such as 20 years from the date. Set the time of day for your scheduled export. The export is put in a job queue and the exact time of the export depend on the amount of activity in queue. You can select the types of data to include in your export. It is best to include all data in your export file. This will make sure all vour organizations data is exported. Click Save. **Points** Remember: to Formula and roll-up summarv fields are never included in exports. Articles are not included from exports. The export notification email is sent to the email address on file for the user who created the scheduled export. There is no way to indicate another email address. If as an Administrator you want the email to go to another person, have them grant you login access, login as them and schedule the data export. Important: exports of backup your data are limited to

You have 48 hours from the time you are notified the backup is available to download the backup file.

The email notification for backups goes to the email address in Salesforce of the person logged in who schedules

the backup

232. Do governor limits apply to sandbox instances?

Governor limits do apply to all Salesforce instances (trial, developer, and production or sandbox environments). However code coverage and successful execution of test classes is only enforced when deploying to a production environment.

233. What actions can be performed using Workflows?

workflow workflow: Following actions can be performed in а 1. Email Alert: Email alerts are workflow and approval actions that are generated using an email template by a workflow rule or approval process and sent to designated recipients, either Salesforce users or others. Workflow alerts can be sent to any user or contact, as long as they have a valid email address. Update: Field updates are workflow and approval actions that specify the field you want updated and the new value for it. Depending on the type of field, you can choose to apply a specific value, make the value blank. or calculate а value based on а formula you create. Task: 3. Assigns a task to a user you specify. You can specify the Subject, Status, Priority, and Due Date of the task. Tasks are workflow and approval actions that are triggered by workflow rules or approval processes. Outbound An outbound message is a workflow, approval, or milestone action that sends the information you specify to an endpoint you designate, such as an external service. An outbound message sends the data in the fields SOAP message specified in the form of а to trigger in salesforce.com production 234. How delete an apex class or environment? In salesforce.com production environment the Del option is not displayed for classes & triggers. Follow steps delete file Go to your sandbox (where you do your Trigger/Class development) and delete the Trigger/Class from there. Also delete the Test Methods that test the Class/Trigger. Go to Eclipse and do a Refresh from Server. This will make the files disappear within Eclipse. Then deploy to Production, ticking Delete next to the files in your Deployment Plan. (For safety, always Deselect All when deploying, then sort by Type. Only then tick which files to deploy, since choosing wrong ones could cripple Production.) What 235. in Salesforce.com? governor limits are Governor limits are runtime limits enforced by the Apex runtime engine. Because Apex runs in a shared, multitenant environment, the Apex runtime engine strictly enforces a number of limits to ensure that code does not monopolize shared resources. Types of limits that Apex enforces are resources like memory, database resources, number of script statements to avoid infinite loops, and number of records being processed. If code exceeds a limit, the associated governor issues a runtime exception that cannot be handled thereby terminating the request. For information please link: refer to the more http://www.salesforce.com/us/developer/docs/apexcode/Content/apex gov limits.htm 236. Which Wizard? objects imported **Import** can be by Following objects can be imported using import wizard. Accounts 2. Contacts 3. Leads 4. Solutions 5. Custom **Objects** 237. salesforce.com? What the difference between Role **Profile** Profile: Profiles are set of permissions and setting which determines the objects, the fields of the object, tabs & apps the user can access. It also determines the page layout & record type accessible to the user. Profile required field while user Role: Role control the level of visibility/access to organization's data at the record level. Users at any given role can view, edit & report on data accessible to all the users below them in role hierarchy. Role is not a

while

user

creation.

required

field

Example:

Let's take an example of a software company Ajanya.com. It has two profiles Developer & Tester and two Manager. Let's consider that Defect is а By using Profile we can ensure that Defect can by created only by user with Tester profile and User with defect profile can only edit the By using Roles we can ensure that the user with Profile Developer & Role Manager can view the Defects assigned to user with profile Developer & Role Trainee.

238. What are different portals in Salesforce.com?
Partner Portal:

A partner portal allows partner users to log in to Salesforce.com through a separate website than nonpartner users. Partner users can only view & edit data that has been made available to them. An have organization can multiple partner portals. For partner portal best practices please refer link: https://ap1.salesforce.com/help/doc/en/partner portal best practices.htm Customer Portal:

Customer Portal provides an online support channel for customers allowing them to resolve their inquiries without contacting a customer service representative. An organization can have multiple customer portals.

239. What is the use of Salesforce.com Sites?

Force.com Sites enables you to create public websites and applications that are directly integrated with your Salesforce organization without requiring users to log in with a username and password. You can publicly expose any information stored in your organization through a branded URL of your choice. Sites are hosted on Force.com servers and built on native Visualforce pages. You can user authentication to a public site using customer portal.

240. How to import attachments using Data Loader in salesforce? Please follow the instructions below.

AttachmentList.csv 1. Create an file with the following column headers: Parentld ID of the record to which the attachment should be associated Name Name of the attachment ContentType Format of the .pdf. extension .xls. etc) (e.g. OwnerID ID for the owner of the attachment Body - File path to the Attachment on your local machine (C:\Attachments\FileName.pdf) 2. to Data Loader. Log in the 3. Select the "Insert" command. 4. In the 'Select Sforce Object' step, select the 'Attachments' object. This object is not displayed by default check 'Show Sforce Objects' checkbox. hence the all Choose the AttachmentList.csv file. 5. 6. fields: In the mapping the following step, map ID Parent Name Owner Body - Make sure to map the Body column which you created previously with the file extension. This is how you designate the file and location of the attachments to be inserted. 7. Click "OK" upload. to start the

241. What are groups in SFDC and what is their use in salesforce?

Groups are set of users. They can contain individual users, other groups, the users in a particular role or territory, or the users in a particular role or territory plus all of the users below that role or territory in the hierarchy.

There are two types of groups:

- Public groups: Only administrators can create public groups. They can be used by everyone in the organization.
- Personal groups: Each user can create aroups for their personal use. You can use groups in the following ways: default To set up sharing access via а sharing rule Tο share records with other users your To specify that you want synchronize contacts owned by others users to To add multiple users to Salesforce CRM Content library а Tο users to specific actions in Salesforce Knowledge assign

242. What is the difference between public cloud & private cloud in salesforce? Is salesforce.com a public cloud or private cloud?

Public Cloud: Could services are provided "as a service" over the Internet with little or no control over the underlying technology infrastructure. More than one tenant can use the same resources. Private Cloud: This also offers activities and functions "as a service" but is deployed over a company intranet or hosted datacenter. This is private product for a company or organization offering advance security.

Salesforce.com: Is a public cloud as it is hosted on salesforce.com data centers and data of more than one tenant resides on same servers.

243. What is the difference between custom controller and extension in salesforce?

Custom Controller: A custom controller is an Apex class that implements all of the logic for a page without leveraging a standard controller. Use custom controllers when you want your Visualforce page to run entirely in system mode, which does not enforce the permissions and field-level security of the current user.

Controller extension: A controller extension is an Apex class that extends the functionality of a standard controller. Use controller extensions You want to leverage the built-in functionality of a standard controller but override one or more actions, delete. such as edit. view. save. or You want add actions. to new You want to build a Visualforce page that respects user permissions. Although a controller extension class executes in system mode, if a controller extension extends a standard controller, the logic from the standard controller does not execute in system mode. Instead, it executes in user mode, in which permissions, field-level security, and sharing rules of the current user apply. A controller extension is any Apex class containing a constructor that takes a single argument of type ApexPages.StandardController or CustomControllerName, whereCustomControllerName is the name of a controller vou Note: Although custom controllers and controller extension classes execute in system mode and thereby ignore user permissions and field-level security, you can choose whether they respect a user's organization-wide defaults, role hierarchy, and sharing rules by using the with sharing keywords in the class definition.

244. What are different kinds of reports?

1. Tabular: Tabular reports are the simplest and fastest way to look at data. Similar to a spreadsheet, they consist simply of an ordered set of fields in columns, with each matching record listed in a row. Tabular reports are best for creating lists of records or a list with a single grand total. They can't be used to create groups of data or charts, and can't be used in dashboards unless rows are limited. Examples include contact mailing lists and activity 2. Summary: Summary reports are similar to tabular reports, but also allow users to group rows of data, view subtotals, and create charts. They can be used as the source report for dashboard components. Use this type for a report to show subtotals based on the value of a particular field or when you want to create a hierarchical list, such as all opportunities for your team, subtotaled by Stage and Owner. Summary groupings show as tabular reports on the

3. Matrix: Matrix reports are similar to summary reports but allow you to group and summarize data by both rows and columns. They can be used as the source report for dashboard components. Use this type for comparing related totals, especially if you have large amounts of data to summarize and you need to compare values in several different fields, or you want to look at data by date and by product, person, or geography. Matrix reports without at least one row and one column grouping show as summary reports report 4. Joined: Joined reports let you create multiple report blocks that provide different views of your data. Each block acts like a "sub-report," with its own fields, columns, sorting, and filtering. A joined report can even contain data from different report types. 245. What different kinds of dashboard component? are Chart: Use chart when show data graphically. а vou want to 2. Gauge: Use a gauge when you have a single value that you want to show within a range of custom values. 3. Metric: Use а metric when you have one key value Enter metric labels directly on components by clicking the empty text field next to the grand total. Metric components placed directly above and below each other in a dashboard column are displayed together as single component. Use а table to show set of report data in column а 5. Visualforce Page: Use a Visualforce page when you want to create a custom component or show another information not available in component 6. Custom S-Control: Custom S-Controls can contain any type of content that you can display or run in a browser, for example, a Java applet, an ActiveX control, an Excel file, or a custom HTML Web form\ 246. Write and structure of scheduler class? а syntax Sample class global ScheduleDemo implements Schedulable{ class global execute(SchedulableContext void sc){ **BatchClass** BatchClass(): b new database.executeBatch(b); 247. Write email? apex code to send Sample code snippet to send an email using apex code Messaging.SingleEmailMessage mail Messaging.SingleEmailMessage(); new toAddresses String[]{'talk2srikrishna@gmail.com'}; = new mail.setToAddress(toAddresses); mail.setSubject('Sample Mail Subject'): World!'); mail.setPlainTextBody('Hello Messaging.sendEmail(new Messaging.SingleEmailMessage[]{mail}); 248. What are the aggregate functions supported by salesforce SOOL? Following functions are supported salesforce SOQL aggregate by SUM() 2. MIN() 3. MAX() 4. COUNT() 5. AVG() 6. COUNT DISTINCT()

```
Write a sample
                        aggregate query or explain how to write a aggregate queries?
                         Aggregate
    return types of
                                      functions
                                                are always
                                                               an array of AggregateResult.
Sample
                                                                                           Code
AggregateResult[]
                                                                                    Opportunity];
                                    [select
                                               AVG(Amount)
                                                                           from
                      ar
                                                                 aver
                            avgAmt
Object
                                                                                  ar[0].get('aver');
250. Write a code to find the average Amount for all your opportunities by campaign?
AggregateResult[] arList = [select CampaignId, AVG(amount) from Opportunity group by CampaignId];
for(AggregateResult
                                         ar
             System.debug('CampaignId
                                                                            ar.get('CampaignId'));
              System.debug('Average
                                                 Amount'
                                                                                  ar.get('expr0'));
}
251. What are email services in salesforce and explain how we can use them in code?
Email services are automated processes that use apex class to process the contents, headers
and attachment of
                                      an
                                                              inbound
                                                                                           email.
Sample
                                                                                            code
Use Case: create a contact record if the inbound email subject is Create Contact and body contains
contact
                                                                 Messaging.InboundEmailHandler{
global
              CreateContactFromEmail
                                              implements
                                           handleInboundEmail(Messaging.InboundEmail
global
          Messaging.InboundEmailResult
Messaging.InboundEnvelop
                                                                                        envelop){
       Messaging.InboundEmailResult
                                                                 Messaging.InboundEmailResult();
                                                        new
              String
                               strToCompare
                                                                      'Create
                                                                                        Contact':
                                                 If(email.subject.equalsIgnoreCase(strToCompare)){
                           Contact
                                              С
                                                           =
                                                                                       Contact();
                                 c.LastName
                                                                            email.plainTextBody();
                                                             insert
                                                                                               C:
                                                               text
                                                                                     attachments
                                        //save
for(Messaging.InboundEmail.TextAttachment
                                                   att
                                                                           email.textAttachments){
               Attachment
                                      а
                                                                                    Attachment():
                                                                   new
                                                                                     att.fileName;
                          a.Name
                      a.Body
                                                                        att.Blob.valueOf(att.Body);
                            a.ParentId
                                                                                            c.ld;
                                                                                      attachment;
                                         insert
}
//save
                                          binary
                                                                                     attachments
for
      (Messaging.Inboundemail.BinaryAttachment
                                                  bAttachment
                                                                     email.binaryAttachments)
                Attachment
                                     attachment
                                                                                    Attachment();
                                                                           bAttachment.fileName;
                       attachment.Name
                         attachment.Body
                                                                               bAttachment.body;
                                                           =
                            attachment.ParentId
                                                                                            c.ld:
                                           insert
                                                                                      attachment;
```

res.Success return }	=	true; res;
252. What is the relationship In Salesforce, Contacts is having		Account objects in salesforce? th Accounts i.e., Simple relationship
253. What are different Or Below are	rganization Wide Defar the different	ults? Explain each of them? OWD values
Private If the OWD for an object is set to hierarchy, can view, ed		ner, and users above that role in role on those records
•	•	Only sers can view and report on records but the that role in the role hierarchy can edit records
Public If the OWD for an object is set to F records. But only owner	Public Read/Write, then all of the record	Read/Write users can view, edit and report on all can delete the records.
Public This is available If the OWD for an object is set to Publ all the records but only		Read/Write/Trfer and Lead objects users can view, edit, trfer and report on ord can delete the records
Public This is available If the OWD for Campaigns are set Pu	Full only for ublic Full Access then, all use	Access Campaign object. ers can view, edit, delete and report on records.
No Access, This is available	View On only for	lly or Use Price Book object.
If the OWD for Price Book is set Use t using the Price Book	then, all users can access th configuration for	e Price Book information and as well as Opportunities with Products.
	or Only then, all users can acc Book detail in	cess the Price Book information but not Opportunities with Products
If the OWD for Price Book is set No Book	Access then, it restricts use and	rs from accessing information for Price Prices.
Controlled If the OWD for any object is set as Cobased on whether they can		Parent er can perform an action on the record parent record associated with it
of selecting It is not mandatory to sele	a ect a User License	ion sets? If not, what is the significance User License? while creating a permission sets. then choose the same license that's them.

If you are planning to assign this permission set to multiple users with different licenses then, choose none.

255. Can create profile without cloning existina profiles? we а new an No. the existing profiles create new profile we have to clone any one of to

256. Please explain the use of Grant Access Using Hierarchies?

In Sharing settings, OWD settings, we have a check box Grant Access Using Hierarchies (for both standard and custom objects). If this check box is checked then it will give automatic access to the user's salesforce data to other users higher role of CRM Role Hierarchy. in If this check box is not checked then, only record owner and users granted access by OWD can gain the access.

257. What is the batch size limit (increment size for batch) in Data Loader?

Data Loader batch size limit is maximum of 200 per increment and if we selected Use Bulk API then maximum value is 10000

258. What is the difference between Export and Export All in the context of Data Loader?

Export enables user to export all the records for a particular object excluding the records in the recycle bin or soft deleted records. Export All enables user to export all the records for a particular object including the records in the recycle bin or soft deleted records.

259. What are the post refresh considerations?

- 1. New Organization ID is assigned to the refreshed sandbox every time it is refreshed. Hence we need to replace the hard coded organization id in our sandbox post refresh with newly created organization id.
- 2. To ensure the uniqueness, in all user records, user name will be appended by sandbox name, if the resulting user name is not unique then, second round of modification is performed to prepend the user name with alpa numeric string to make sure the resulting username is unique.
- 3. The copy process does not copy contact data to developer and configuration sandboxes. Therefore, customer portal users are not copied. These customer portal users need to be created manually on need basis.
- 4. User email addresses are modified in sandbox to avoid sending any mail from sandbox such as notifications triggered by workflows and escalations rules.
- 5. Newly created sandboxes have the default email deliverability setting System email only. We need to change this to All Email.
- 6. If Server URL is hardcoded in the code, then we need to replace it with the newly created URL
- 260. What is the storage limit of Full Copy. Configuration Only and Developer sandboxes? storage Full Copy Sandbox has the same limit as your production organization Configuration Only sandbox storage limit 500MB has the of Developer Sandbox has the storage limit of 10MB

261. What is the interval of refreshing of Full Copy, Configuration Only and Developer sandboxes?

Full Copy Sandbox refreshed in 29 days he once can Configuration Sandbox refreshed day can be once per Developer Sandbox refreshed day can be once per

262.	١	What	ar	е	the		defa	ult	shai	ring	settings?
Default 1. 2.		sha	aring Co	ontrolled	settings			are By		as	follows Parent Private
3. 4.			Р	ublic	Publ	ic		Read			Only ReadWrite
5. 6. 7.	Public Pul	blic	ead/Write Full rant		(Only ccess Acces	fo (Or		Case for Us	and Ca sing	Lead ampaign	
263.	How	ma	ny ro	oles	we	can	cre	eate	for	an	organization?
We	can	crea	ate	up	to	500	ro	les	for	an	organization
264.	How	many	permis	ssion	sets	we	can	create	e for	an	organization?
We	can	create	up	to	1000	permi	ssion	sets	for	an	organization
265.	How	many	types	of	custor	n ta	abs	are	available	e in	salesforce?
There 1. 2. 3. We	are eb Tabs	3	types Cu	of istom	custom Visu	tal alforce	bs	are Object	available	e in	salesforce Tabs Tabs
Wrappe Wrappe	er	ass		class in ellections	s of	diff	erent	Apex data	ı typ	e, sı	Salesforce: ubject etc.
In follo	wing ex	ample	we are	bind A	ccount ,0	Opportu	nity st	andard o	bject. W	e query	and perform
busines	s logic o	on the C	Collection	of eleme	ents acros	ss unr	elated	objects	with the	custon	n data type.

Visual		Force		Page:
<apex:page< th=""><th></th><th></th><th>controller="w</th><th>rapperDemoCtrl"></th></apex:page<>			controller="w	rapperDemoCtrl">
<apex:pageblock< th=""><th>title="Account</th><th>From</th><th>wrapper</th><th>Class"></th></apex:pageblock<>	title="Account	From	wrapper	Class">
<	apex:pageBlockTable	value="{!v	vraccount}"	var="wra">
	<apex:column< th=""><th></th><th>value="{</th><th>!wra.acc.Name}"/></th></apex:column<>		value="{	!wra.acc.Name}"/>
			<th>::pageBlockTable></th>	::pageBlockTable>
<th>></th> <th></th> <th></th> <th></th>	>			
<apex:pageblock< th=""><th>title="Opportunity</th><th>From</th><th>wrapper</th><th>Class"></th></apex:pageblock<>	title="Opportunity	From	wrapper	Class">
<	apex:pageBlockTable	value="{!w	raoppn}"	var="wropp">
	<apex:column< th=""><th></th><th>value="{!v</th><th>/ropp.op.Name}"/></th></apex:column<>		value="{!v	/ropp.op.Name}"/>

</apex:pageBlockTable>

```
</apex:pageBlock>
```

</apex:page>

```
Controller
public
                               class
                                                              wrapperDemoCtrl
                                public
                                                      list<wrapperClass>
                                                                                          wraplist{get;set;}
                                 public
                                                       list<wrapperClass>
                                                                                           getwraccount()
                             list<Account>acclist=[select
                                                             Id,Name
                                                                                   Account
                                                                                                limit
                                                                                                        3];
                                                                          from
                                                       wraplist=
                                                                                     list<wrapperClass>();
                                                                        new
                                                               for(Account
                                                                                     acn:
                                                                                                    acclist)
                                                           wraplist.add(new
                                                                                      wrapperClass(acn));
                                                                             return
                                                                                                  wraplist;
                                  public
                                                         list<wrapperClass>
                                                                                             getwraoppn()
                    list<Opportunity>opplist=[select
                                                         Id,Name
                                                                               Opportunity
                                                                                                        31;
                                                                      from
                                                                                                limit
                                                 wraplist=
                                                                                     list<wrapperClass>();
                                                                     new
                                                      for(Opportunity
                                                                                  opn:opplist
                                                       wraplist.add(new
                                                                                      wrapperClass(opn));
                                                                          return
                                                                                                  wraplist;
                                         public
                                                                   class
                                                                                            wrapperClass{
                                                               Account
                                              public
                                                                                                 {get;set;}
                                                                                   acc
                                             public
                                                              Opportunity
                                                                                                 {get;set;}
                                                                                    go
                                                public
                                                                  wrapperClass(Account
                                                                                                    accn){
                                                           acc=
                                                                       accn;
                                          public
                                                              wrapperClass(Opportunity
                                                                                                      opn)
                                                                                                  op=opn;
```

266. What is apex scheduler?

Apex scheduler is used to invoke Apex classes to run at specific times, first implement the Schedulable interface for the class, then specify the schedule using either the Schedule Apex page in the Salesforce user interface, or the System.schedule method.

The Schedulable interface contains one method that must be implemented, execute. *global void execute(SchedulableContext sc){*}

The implemented method must be declared as global or public.

```
The following example implements the Schedulable interface for a class called mergeNumbers:
    global class scheduledMerge implements Schedulable{
   global void execute(SchedulableContext SC) {
   mergeNumbers M = new mergeNumbers();
     }
    The following example uses the System. Schedule method to implement the above class.
   scheduledMerge m = new scheduledMerge();
        String sch = '20\ 30\ 8\ 10\ 2\ ?';
   system.schedule('Merge Job', sch, m);
   You can also use the Schedulable interface with batch Apex classes. The following example implements
   the Schedulable interface for a batch Apex class called batchable:
   global class scheduledBatchable implements Schedulable{
   global void execute(SchedulableContext sc) {
   batchable b = new batchable();
    database.executebatch(b);
     }
   Use the SchedulableContext object to keep track of the scheduled job once it's scheduled. The
   SchedulableContext method getTriggerID returns the ID of the CronTrigger object associated with this
   scheduled job as a string. Use this method to track the progress of the scheduled job.
   To stop execution of a job that was scheduled, use the System.abortJob method with the ID returned by
   the.getTriggerID method.
   267. Write a syntax and structure of scheduler class?
   Sample class
    global class ScheduleDemo implements Schedulable{
           global void execute(SchedulableContext sc){
                  BatchClass b = new BatchClass();
                  database.executeBatch(b);
           }
   268. What is Scheduler class in Apex?
   The Apex class which is programmed to run at pre defined interval.
   Class must implement schedulable interface and it contains method named execute().
   There are two ways to invoke scheduler:
1. Using UI
2. Using System.schedule (Schedule method of System class)
   The classes which implements interface schedulable get the button texted with "Schedule", when user
   clicks on that button; new interface opens to schedule the classes which implements that interface.
    To see what happened to scheduled job, go to "Monitoring | Scheduled jobs "
   Example of scheduling:
   scheduledMerge m = new scheduledMerge();
   String sch = '20 30 8 10 2 ?';
   system.schedule('Merge Job', sch, m);
   Here:
   20 represents seconds
   30 represents minutes
   8 represents hour of the day
    10 represents 10<sup>th</sup> day of month
   2 represents month of the year
   ? represents day of the month
   269. Write a apex code to send a email?
```

```
Sample code snippet to send an email using apex code
   Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();
   String[] toAddresses = new String[]{'talk2srikrishna@gmail.com'};
   mail.setToAddress(toAddresses);
   mail.setSubject('Sample Mail Subject');
   mail.setPlainTextBody('Hello World!');
   Messaging.sendEmail(new Messaging.SingleEmailMessage[]{mail});
   270. What are the aggregate functions supported by salesforce SOQL?
   Following aggregate functions are supported by salesforce SOQL
   SUM()
1.
2.
   MIN()
   MAX()
3.
4. COUNT()
5. AVG()
6. COUNT DISTINCT()
   271. Write a sample aggregate query or explain how to write a aggregate queries?
   The return types of Aggregate functions are always an array of AggregateResult.
   Sample Code
    AggregateResult[] ar = [select AVG(Amount) aver from Opportunity];
    Object avgAmt = ar[0].get('aver');
   272. Write a code to find the average Amount for all your opportunities by campaign?
    AggregateResult[] arList = [select CampaignId, AVG(amount) from Opportunity group by CampaignId];
   for(AggregateResult ar : arList){
           System.debug('CampaignId')+ ar.get('CampaignId'));
           System.debug('Average Amount' + ar.get('expr0'));
   273. What are email services in salesforce and explain how we can use them in code?
   Email services are automated processes that use apex class to process the contents, headers
   and attachment of an inbound email.
   Sample code
   Use Case: create a contact record if the inbound email subject is Create Contact and body contains
   contact name
   global CreateContactFromEmail implements Messaging.InboundEmailHandler{
              Messaging.InboundEmailResult
                                                handleInboundEmail(Messaging.InboundEmail
                                                                                                  email,
   Messaging.InboundEnvelop envelop){
           Messaging.InboundEmailResult res = new Messaging.InboundEmailResult();
           String strToCompare = 'Create Contact';
           If(email.subject.equalsIgnoreCase(strToCompare)){
                  Contact c = new Contact():
                  c.LastName = email.plainTextBody();
                  insert c;
                  //save text attachments
           for(Messaging.InboundEmail.TextAttachment att: email.textAttachments){
                  Attachment a = new Attachment();
                  a.Name = att.fileName;
                  a.Body = att.Blob.valueOf(att.Body);
                  a.ParentId = c.Id:
                  insert attachment;
           }
           //save binary attachments
           for (Messaging.Inboundemail.BinaryAttachment bAttachment : email.binaryAttachments) {
                  Attachment attachment = new Attachment();
                  attachment.Name = bAttachment.fileName;
```

```
attachment.Body = bAttachment.body;
    attachment.ParentId = c.Id;
    insert attachment;
    }
}
res.Success = true;
return res;
    }
}
```

274. What is the row limit for apex:dataTable and apex:pageBlockTable?

The data set for both apex:dataTable and apex:pageBlockTable can have up to 1000 items.

275. What is the difference between apex:pageMessages, apex:pageMessage, apex:Message and apex:Messages?

apex:PageMessages:

This component displays all messages that were generated for all components on the current page, presented using the salesforce styling. This will display both salesforce generated messages as well as custom messages added to the ApexPages class

apex:PageMessage:

Apex:PageMessage is a component that adds single message on the page. This is used to display custom message using the salesforce formatting

apex:Message:

apex:Message is used to display an error on only a specific field. It is used to allow developers to place field specific errors in specific location.

apex:Messages:

apex:Messages is similar to apex:Message but it displays all errors

276. How can we hard delete a record using a Apex class/by code? ALL ROWS key word can be used to get all the records including records in the recycle bin. Below is the sample code to delete contact records from recycle bin List<Contact> dContactList=[Select ID From Contact Where IsDeleted = true limit 199 ALL ROWS]; Database.emptyRecycleBin(dContactList); 278. Write a syntax and structure of batch class? Sample class global Class BatchDemo implements Database.Batchable<sObject>{ global Database.QueryLocator start(Database.BatchableContext bc){ return Database.getQueryLocator(query);

```
global void execute(Database.BachableContext bc, List<sObjects> scope){
}
global void finish(Database.BachableContext bc){
}
Below code will call the batch class
BatchDemo bd = new BatchDemo();
database.executebatch(bd);
```

279. What is batch apex?

Batch Apex is exposed as an interface that must be implemented by the developer. Batch jobs can be programmatically invoked at runtime using Apex.

Need of Batch Apex: - As you all might know about the salesforce governor limits on its data. When you want to fetch thousands of records or fire DML on thousands of rows on objects it is very complex in salesforce and it does not allow you to operate on more than certain number of records which satisfies the Governor limits.

But for medium to large enterprises, it is essential to manage thousands of records every day. Adding/editing/deleting them when needed.

Salesforce has come up with a powerful concept called Batch Apex. Batch Apex allows you to handle more number of records and manipulate them by using a specific syntax.

We have to create a global apex class which extends Database.Batchable Interface because of which the salesforce compiler will know, this class incorporates batch jobs. Below is a sample class which is designed to delete all the records of Account object (Lets say your organization contains more than 50 thousand records and you want to mass delete all of them).

```
Examples:-
```

```
global class deleteAccounts implements Database.Batchable
{
    global final String Query;
    global deleteAccounts(String q)
    {
        Query=q;
    }
    global Database.QueryLocator start(Database.BatchableContext BC)
    {
        return Database.getQueryLocator(query);
    }
    global void execute(Database.BatchableContext BC,List scope)
    {
        List <Account> lstAccount = new list<Account>();
        for(Sobject s : scope)
        {
              Account a = (Account)s;
              lstAccount.add(a);
        }
        Delete lstAccount;
    }
    global void finish(Database.BatchableContext BC)
    {
```

Apex Code supports the ability to expose Apex methods as a Web service. Apex also supports the ability to invoke external web services and this will refer to as 'Callouts.' The former is involved in creating a web service that a client can invoke, while the latter is invoking an external web service.

281. What are wrapper classes?

A wrapper or container class is a class, a data structure, or an abstract data type whose instances are collections of other objects.

282. How do you hide header and sidebar on visualforce page?

Below is the code to hide sidebar and header

<apex:page showHeader="false" sidebar="false">

</apex:page>

283. What is the difference between standard and custom controller?

The standard controller is auto generated by SF for all objects.

Custom controllers are written by you and do what your code tells them to do.

284. How do you read parameter in visualforce page?

Below syntax can be used to read parameters in visualforce page <apex:inputField value="{!\$CurrentPage.parameters.Paramtervalue}"/>
Additional code:

If you're writing a custom controller, use the ApexPages global object variable and currentPage() and getParameters() methods to get query string parameters. For example, to get the value of the name query parameter in the URL: https://na1.salesforce.com/001/e?name=value, use the following line in your custom controller:

String value = ApexPages.currentPage().getParameters().get('name');

•If you're editing a page, use the \$PageContext global variable in a merge field.

For example, suppose you want to add the Open Activities related list to an account detail page, but instead of showing the account's activities, you want to show the activities of a specified contact. To specify the contact, the following page looks for a query string parameter for the contact's ID under the name relatedId:

For this related list to render in a saved page, valid account and contact IDs must be specified in the URL. For example, if 001D000000HRqU6 is the account ID and 003D00000OXDIx is the contact ID, use the URLhttps://na3.salesforce.com/apex/MyFirstPage?id=001D000000HRgU6& relatedId=003D00000OXDIx.

To set a query string parameter:

If you're writing a custom controller, use the setParameters() method with ApexPages.currentPage() to add a query parameter in a test method. For example:

```
String key = 'name';
String value = 'Caroline';
ApexPages.currentPage().setParameters().put(key, value);
```

```
The setParameters() method is only valid inside test methods.
 If you're editing a page, you can either construct a URL manually:
<apex:outputLink value="http://google.com/search?q={!account.name}">
  Search Google
</apex:outputLink>
Or you can use the <apex:param> tag as a child tag to write cleaner code:
<apex:outputLink value="http://google.com/search">
  Search Google
<apex:param name="q" value="{!account.name}"/>
</apex:outputLink>
285. How can we pass javascript variable to apex class?
VF Page (Use assign input variable to VF using $Component.FieldId)
<apex:page controller="Js Test Class">
<apex:form>
<script>
       function setVal()
       document.getElementById("{!$Component.hdnField}").value = "TestValue";
</script>
<apex:inputHidden id="hdnField" value="{!theValue}" />
<apex:commandButton value="Post Page" action="{!post}" />
</apex:form>
<script>
setVal();
</script>
</apex:page>
Controller (Declare setter and getter for the variable being used in VF page)
public class Js_Test_Class {
       public String theValue { get;set;}
public void post() {
System.Debug('The value is: ' + theValue);
  }
```

286. Is it possible to call apex method in javascript code? If yes, explain?

Yes, we can call apex methods using javascript. We can achieve this using ActionFunction. ActionFunction allow you to tie an apex method to a javascript function name and invoke synchronously. ActionFunction must be a child of apex:form component.

```
Example VF Page
<apex:page controller="t">
<script>
function myJavascriptFunc()
  {
alert('Entered Javascript');
CallApexMethod();
</script>
<apex:form >
<apex:actionFunction name="CallApexMethod" action="{!myActionInController}" onComplete="alert('After</pre>
apex method");"/>
<apex:pageBlock >
<apex:pageBlockButtons>
<apex:commandButton value="Hit Me" onclick="myJavascriptFunc();"/>
</apex:pageBlockButtons>
</apex:pageBlock>
</apex:form>
</apex:page>
Example Controller
public class t
public PageReference myActionInController(){
return null;
  }
287. What is commandLink? Explain the usage?
CommandLink is a link that executes an action defined by a controller, and then refreshes the current
page or navigate to the different page based on the PageReference variable that is returned by the
action.
commandLink component must be a child of an form component.
<apex:commandLink action="{!save}" value="Save" id="theCommandLink"/>
288. What is outputLink? Explain the usage?
OutputLink is a link to URL. This component is rendered in HTML as an anchor tag with an href attribute.
The body of the OutputLink is a text or image that displays as the link
Example:
<apex:outputLink value="http://www.google.com" id="theLink">www.google.com</outputLink>
289. How to get URL parameters in Visuaforce page?
If the URL is something link this
https://<salesforce instance>/apex/getQueryStringParam?id=001d000000B1Gj5&cid=003d000000BIjFh
and if we want to read cid in our visualforce page then,
Use: $CurrentPage.parameters.cid
Or
If there is a single parameter in the URL string link this
https://xxx.visual.force.com/apex/NewPage?TestValue=value1&retURL=a0HS000000450UD
Then Use:
$CurrentPage.parameters.Paramtervalue
290. How to set URL parameters in Visuaforce page?
Setting a Query String parameter can be achieved by two ways.
```

One:

```
Construct a URL manually like,
<apex:outputLink value="http://google.com/search?q={!account.name}">
  Search Google
</apex:outputLink>
Two
<apex:outputLink value="http://google.com/search">
  Search Google
<apex:param name="q" value="{!account.name}"/>
</apex:outputLink>
291. How to get URL parameters in APEX class?
If the URL is something link this
https://<salesforce instance>/apex/getQueryStringParam?id=001d000000B1Gj5&cid=003d000000BIjFh
And if we want to read cid in our visualforce page then,
Use:
String id = ApexPages.currentPage().getParameters().get('id');
String id = ApexPages.currentPage().getParameters().get('cid');
292. How to set URL parameters in APEX class?
To set a URL parameter using Apex code use below syntax
String key = 'name';
String value = 'Caroline';
ApexPages.currentPage().getParameters().put(key, value);
ApexPages.currentPage().getParameters().set('value');
293. Explain how MVC architecture fit for Salesforce?
In salesforce, Apex Classes works as Controllers, Visualforce Pages works as View and Custom objects
works as Model.
294. How to use actionFunction, actionSupport and actionPollar in salesforce?
actionFunction: provides support for invoking controller action methods directly from JavaScript code
using an AJAXrequest
Used when we need to perform similar action on various events. Even though, you can use it in place of
actionSupport as well where only event is related to only one control.
Example:
actionFunction: provides support for invoking controller action methods directly from JavaScript code
using an AJAXrequest
Example:
<!-- Page: -->
<apex:page controller="exampleCon">
<apex:form>
<!-- Define the JavaScript function sayHello-->
<apex:actionFunction name="sayHello" action="{!sayHello}" rerender="out"</pre>
status="myStatus"/>
</apex:form>
<apex:outputPanel id="out">
<apex:outputText value="Hello "/>
<apex:actionStatus startText="requesting..." id="myStatus">
<apex:facet name="stop">{!username}</apex:facet>
</apex:actionStatus>
</apex:outputPanel>
<!-- Call the sayHello JavaScript function using a script element-->
<script>window.setTimeout(sayHello,2000)</script>
```

```
<apex:outputText value="Clicked? {!state}" id="showstate" />
<!-- Add the onclick event listener to a panel. When clicked, the panel triggers
the methodOneInJavascript actionFunction with a param -->
<apex:outputPanel onclick="methodOneInJavascript('Yes!')" styleClass="btn">
Click Me
</apex:outputPanel>
<apex:form>
<apex:actionFunction action="{!methodOne}" name="methodOneInJavascript"</pre>
rerender="showstate">
<apex:param name="firstParam" assignTo="{!state}" value="" />
</apex:actionFunction>
</apex:form>
</apex:page>
/*** Controller ***/
public class exampleCon {
String uname;
public String getUsername() {
return uname;
public PageReference sayHello() {
uname = UserInfo.getName();
return null;
public void setState(String n) {
state = n;
public String getState() {
return state;
public PageReference methodOne() {
return null;
private String state = 'no';
ActionSupport: A component that adds AJAX support to another component, allowing the component to
be refreshed asynchronously by the server when a particular event occurs, such as a button click or
mouseover.
Used when we want to perform an action on a particular event of any control like onchange of any text
box or picklist.
Example:
<!-- Page: -->
<apex:page controller="exampleCon">
<apex:form>
<apex:outputpanel id="counter">
<apex:outputText value="Click Me!: {!count}"/>
<apex:actionSupport event="onclick"</pre>
action="{!incrementCounter}"
```

rerender="counter" status="counterStatus"/>

<apex:actionStatus id="counterStatus"</pre>

</apex:outputpanel>

```
startText=" (incrementing...)"
stopText=" (done)"/>
</apex:form>
</apex:page>
/*** Controller: ***/
public class exampleCon {
   Integer count = 0;
   public PageReference incrementCounter() {
    count++;
   return null;
   }
   public Integer getCount() {
   return count;
   }
}
```

ActionPolor: A timer that sends an AJAX update request to the server according to a time interval that you specify. The update request can then result in a full or partial page update. You should avoid using this component with enhanced lists.

Used when we want to perform an action on server again and again for a particular time interval.

Example:

```
<!-- Page -->
<apex:page controller="exampleCon">
<apex:form>
<apex:outputText value="Watch this counter: {!count}" id="counter"/>
<apex:actionPoller action="{!incrementCounter}" rerender="counter" interval="15"/>
</apex:page>
/*** Controller: ***/
public class exampleCon {
    Integer count = 0;
    public PageReference incrementCounter() {
        count++;
        return null;
    }
}
```

295. What is the difference between actionFunction and actionSupport tags?

SI No	ActionSupport	ActionFunction
1)	Directly call action method without javascript	Call action method from javascript with AJAX
2)	It can be used to call action method on single event	It can be used to call action method on different event
3)	It cannot be called from javascript function. It only invoke controller action methods from other Visualforce components	It defines a new JavaScript function which can then be called from within a block of JavaScript code.

296. How do you do File Upload using visualforce?

Below is the code sample of file upload in visualforce

```
<!-- Upload a file and put it in your personal documents folder-->
<!-- Page: -->
<apex:page standardController="Document" extensions="documentExt">
<apex:messages />
<apex:form id="theForm">
<apex:pageBlock>
<apex:pageBlockSection>
<apex:inputFile value="{!document.body}" filename="{!document.name}"/>
<apex:commandButton value="Save" action="{!save}"/>
</apex:pageBlockSection>
</apex:pageBlock>
</apex:form>
</apex:page>
/*** Controller ***/
public class documentExt {
public documentExt(ApexPages.StandardController controller) {
    Document d = (Document) controller.getRecord();
    d.folderid = UserInfo.getUserId(); //this puts it in My Personal Documents
 }
298. Explain Apex Data Types
Apex
                       primitive
                                                  data
                                                                        types
                                                                                                include
                                                                                                 String
                Blob
                                                                                                  data)
                                    (for
                                                      storing
                                                                             binary
                                                                                               Boolean
                    Date,
                                             DateTime
                                                                                                  Time
                                                                           and
                   Integer,
                                             Long,
                                                                     Decimal,
                                                                                                Double
             ID
                                                     database
                                                                                              identifier)
                            (Force.com
                                                                           record
Example:
             DateTime
                                  dt
                                                              System.now()
                                                                                                     1;
                    Boolean
                                                 isClosed
                                                                             =
                                                                                                   true;

    String sCapsFirstName = 'Andrew'.toUpperCase();

Apex
                                               sObject
                                                                                                 Types
Sobject
            (object
                        representing
                                         а
                                                Force.com
                                                               standard
                                                                                                 object)
                                                                             or
                                                                                    custom
Example:

    Account acct = new Account(); //Sobject example

                                                                                             collections
Apex
               has
                              the
                                            following
                                                                                of
                                                                types
                                                                                                  Lists
                                                                                                  Maps
                                                                                                   Sets
Example:
                 List
                                     myList
                                                                             new
                                                                                                  List();
        myList.add(12);
                                            the
                                                                      12
                                                                                                    list
                               //Add
                                                       number
                                                                                to
                                                                                         the
• myList.get(0); //Access to first integer stored in the List
```

Enums

- Enum (or enumerated list) is an abstract that stores one value of a finite set of specified identifiers.
- To define an Enum, use enum keyword in the variable declaration and then define the list of values.
- By creating this Enum, you have created a new data type called Season that can be used as any other data type.

Example:

• public enum Season {WINTER, SPRING, SUMMER, FALL}

299. Explain Apex Variables?

Local	variables	are	declared	with	Java-style	syntax.
For						example:
•	Integ	ger	i		=	0;
•			String			str;
•			Account			a;
•			Account[]			accts;
•			Set			s:

• Map<ID, Account> m;

300. Explain Static Methods and Variables?

- Class methods and variables can be declared as static. Without this keyword, the default is to create instance methods and variables.
- Static methods are accessed through the class itself, not through an object of the class:

Example:

- Static methods are generally utility methods that do not depend on an instance. System methods are static.
- Use static variables to store data that is shared with in the class.
- All instances of the same class share a single copy of static variables.
- This can be a technique used for setting flags to prevent recursive

301. What is the use of static variable?

When you declare a method or variable as static, it's initialized only once when a class is loaded. Static variables aren't trmitted as part of the view state for a Visualforce page. Static variables are only static within the scope of the request. They are not static across the server, or across the entire organization.

302. Explain Final variables?

- The final only used with variables. keyword can Classes default. methods final and are by Final variables can only be assigned а value once. defining constants, both final keywords be used. When static and should
- Example: public static final Integer =47;

303. Difference between with sharing and without sharing in salesforce

By default, all Apex executes under the System user, ignoring all CRUD, field-level, and row-level security (that is always executes using the full permissions of the current user).

```
without
                                                                                                 sharing:
Enforcing the User's Permissions, Sharing rules and field-level security should apply to the current user.
For
                                                                                                example:
public
                   with
                                                          class
                                     sharing
                                                                             sharingClass
//
                                                Code
                                                                                                    here
without
                                                                                                 sharina:
Not
       enforced
                           User's
                                      Permissions,
                                                      Sharing
                                                                                   field-level
                                                                                                security.
                    the
                                                                  rules
                                                                           and
For
                                                                                                example:
public
                                                             class
                                                                                noSharing
                   without
                                        sharing
//
                                                Code
                                                                                                    here
Enforcing
              the
                      current
                                  user's
                                            sharing
                                                         rules
                                                                  can
                                                                           impact:
                                                                                       (with
                                                                                                 sharing)
SOQL and SOSL queries - A guery may return fewer rows than it would operating in system context.
DML operations – An operation may fail because the current user doesn't have the correct permissions.
For example, if the user specifies a foreign key value that exists in the organization, but which the current
user does not have access to.
304. Explain Class Constructors with example?
• A constructor is a special method used to create (or instantiate) an object out of a class definition.
                                                  have
           Constructors
                                  never
                                                                 explicit
                                                                                  return
                                                                                                   types.
        Constructors
                            have
                                         the
                                                                 name
                                                                              as
                                                                                        the
                                                                                                   class.
                                                    same

    Classes have default, no-argument, public constructor if no explicit constructors is defined.

· If you create a constructor that takes arguments and still want a no-argument constructor, you must
explicitly
                                                   define
• Constructors can be overloaded, meaning you can have multiple constructors with different parameters,
                        argument
                                                   lists.
                                                                                              signatures.
• Constructors are called before all other methods in the class.
For
                                                                                               Example:
public
                                 class
                                                                 TestObject2
                                final
                                                                DEFAULT SIZE
private
                 static
                                              Integer
                                                                                                      10;
Integer
                                                                                                    size;
//Constructor
                                      with
                                                                                              arguments
                                                                  no
public
                                                TestObject2()
this(DEFAULT SIZE);
                                Using
                                                      calls
                                           this(...)
                                                               the
                                                                       one
                                                                                argument
                                                                                              constructor
}
//
                    Constructor
                                                  with
                                                                         one
                                                                                               argument
public
                            TestObject2(Integer
                                                                      ObjectSize)
size
                                                                                              ObjectSize;
New
        obiects
                   of
                         this
                                 tvpe
                                         can
                                                 be
                                                       instantiated
                                                                       with
                                                                               the
                                                                                      following
                                                                                                   code:
TestObject2
                           myObject1
                                                                     new
                                                                                        TestObject2(42);
TestObject2 myObject2 = new TestObject2();
305. Class Access Modifiers
• Classes have different access levels depending on the keywords used in the class definition.
global:
             this
                        class
                                    is
                                            accessible
                                                              by
                                                                       all
                                                                                Apex
                                                                                             everywhere.
     ΑII
            methods/variables
                                   with
                                            the
                                                    webService
                                                                    keyword
                                                                                                  global.
                                                                                 must
                                                                                           be
     ΑII
             methods/variables
                                    dealing
                                                with
                                                         email
                                                                    services
                                                                                 must
                                                                                                  global.
· All methods/variables/inner classes that are global must be within a global class to be accessible.
```

public: this class is visible across you application or name space.

private: this class is an inner class and is only accessible to the outer class, or is a test class.

protected: this me that the method or variable is visible to any inner classes in the defining Apex class. You can only use this access modifier for instance methods and member variables.

To use the private, protected, public, or global access modifiers, use the following syntax: [(none)|private|protected|public|global] declaration

306. Explain Variable and Method Access Modifiers in Apex?

- Methods and variables have different levels depending on the keywords used in the declaration.
 private: This method/variable is accessible within the class it is defined.
- protected: This method/variable is also available to any inner classes or subclasses. It can only be used
 instance methods and member variables.
- public: This method/variable can be used by any Apex in this application namespace.
- global: this method/variable is accessible by all Apex everywhere. methods/variable ΑII with the webService keyword must global. be
- The default access modifier for methods and variables is private.

307. Explain Casting in Apex?

Apex enables casting: A data type of one class can be assigned to a data type of another class, but only if one class is а child of other class. another. Casting converts an object from one data type to specific Casting between the generic sObject tvpe and the sObject type is also allowed. For Example: sObject s new Account(); Account а = (Account)s;

Contact c = (Contact)s //this generates a run time error.

308. Explain Exceptions Statements in Apex?

Similar to Java, Apex uses exception to note errors and other events that disrupt script execution with the following

Exception statement keywords:

- Throw: signals that an error has occurred and provides an exception object.
- Try: identifies the block of code where the exception can occur.
- Catch: identifies the block of code that can handle a particular exception. There may be multiple catch blocks for each try block.
- Finally: optionally identifies a block of code that is quaranteed to execute after a try block.

. many. opti	oriany raoriano	o a brook or codo triat io	gaarantoo	a to oncours t	artor a try brook.	
Exception						Example:
public	class	OtherException	ex	<i>ctends</i>	BaseException	∂
Try{						
//Add			code			here
throw	new	OtherException('Som	ething	went	wrong	here');
}	Catch	(Othe	erException	1	oex)	{
//Caught	а	custom	ex	ception	type	here
}		Catch		(Exception		ex){
//Caught		all oth	ner	exc	ceptions	here
3						

309. Name different Exceptions?

All exceptions support built-in methods for returning the error message and exception type, below is the some of the Exception Methods,

AsyncException CalloutException DmlException

EmailException
JSONException
ListException
MathException
NoAccessException
NoDataFoundException
NullPointerException
QueryException

310. Explain about Salesforce annotations

Apex annotations modify the way a method or class is used. Below is the list of annotations supported by salesforce

@Deprecated

Use the deprecated annotation to identify methods, classes, exceptions, enums, interfaces, or variables that can no longer be referenced in subsequent releases of the managed package in which they reside. This is useful when you are re-factoring code in managed packages as the requirements evolve. New subscribers cannot see the deprecated elements, while the elements continue to function for existing subscribers and API integrations.

@Future

Use the future annotation to identify methods that are executed asynchronously. When you specify future, the method executes when Salesforce has available resources.

To test methods defined with the future annotation, call the class containing the method in a startTest, stopTest code block. All asynchronous calls made after the startTest method are collected by the system. When stopTest is executed, all asynchronous processes are run synchronously. @IsTest

Use the isTest annotation to define classes or individual methods that only contain code used for testing your application. The isTest annotation is similar to creating methods declared as testMethod. @ReadOnly

The @ReadOnly annotation allows you to perform unrestricted queries against the Force.com database. All other limits still apply. It's important to note that this annotation, while removing the limit of the number of returned rows for a request, blocks you from performing the following operations within the request: DML operations, calls to System.schedule, calls to methods annotated with @future, and sending emails.

@RemoteAction

The RemoteAction annotation provides support for Apex methods used in Visualforce to be called via JavaScript. This process is often referred to as JavaScript remoting.

@TestVisible

Use the TestVisible annotation to allow test methods to access private or protected members of another class outside the test class. These members include methods, member variables, and inner classes. This annotation enables a more permissive access level for running tests only.

Apex REST annotations:

@RestResource(urlMapping='/yourUrl')

The @RestResource annotation is used at the class level and enables you to expose an Apex class as a REST resource.

@HttpDelete

The @HttpDelete annotation is used at the method level and enables you to expose an Apex method as a REST resource. This method is called when an HTTP DELETE request is sent, and deletes the specified resource.

@HttpGet

The @HttpGet annotation is used at the method level and enables you to expose an Apex method as a REST resource. This method is called when an HTTP GET request is sent, and returns the specified resource.

@HttpPatch

The @HttpPatch annotation is used at the method level and enables you to expose an Apex method as a REST resource. This method is called when an HTTP PATCH request is sent, and updates the specified resource.

@HttpPost

The @HttpPost annotation is used at the method level and enables you to expose an Apex method as a REST resource. This method is called when an HTTP POST request is sent, and creates a new resource.

@HttpPut

The @HttpPut annotation is used at the method level and enables you to expose an Apex method as a REST resource. This method is called when an HTTP PUT request is sent, and creates or updates the specified resource.

311. Difference between trigger.newMap and trigger.oldMap?

Trigger.newMap - A map of IDs to the new versions of the sObject records. Note that this map is only available in before update, after insert, and after update triggers.

Trigger.oldMap - A map of IDs to the old versions of the sObject records. Note that this map is only available in update and delete triggers.

312. What are the available Trigger Events?

There are 6 trigger events available.

- 1. Insert
- 2. Update
- 3. Delete
- 4. Merge
- 5. Upsert
- 6. Undelete

313. What are the available Trigger contest variables?

Below are the list of Trigger context variables

- 1. isBefore
- 2. IsAfter
- 3. isInsert
- 4. IsUpdate
- 5. isDelete
- 6. isUndelete
- 7. isExecuting
- 8. new
- 9. old
- 10. newMap
- 11. oldMap
- 12. size

314. What is Force.com IDE?

The Force.com IDE is a powerful client application for creating, modifying, testing and deploying Force.com applications. Based on the Eclipse platform, it provides a comfortable environment for

programmers familiar with integrated development environments, allowing you to code, compile, test, and deploy all from within the IDE itself.

315. Explain the Sequence of Salesforce Triggers and Order of Execution?

The following is the order of salesforce execution when the you create or update a record, 1) Loads the original record from the database or initializes the record for an upsert statement. 2) Loads the new record field values from the request and overwrites the old values. If the request came from a standard UI edit page, Salesforce runs system validation to check the record for:

Required values the layout level field-definition level at and code Valid field formats (ex: zip code, country format) Maximum field length (ex: mobile number must 10 digits) Salesforce doesn't perform system validation in this step when the request comes from other sources, such an Apex application а SOAP API call. 3) Run before all triggers.

- 4) Runs most system validation steps again, such as verifying that all required fields have a non-null value, and runs any user-defined validation rules. The only system validation that Salesforce doesn't run a second time (when the request comes from a standard UI edit page) is the enforcement of layout-specific rules.
- 5) Saves the record the database, but doesn't commit yet. 6) Run all after triggers. 7) Run assignment rules. 8) Run auto-response rules.
- 9) Run workflow rules.
 10) If there are workflow field updates, updates the record again.
 11) If the record was updated with workflow field updates, fires before and after triggers one more time
- (and only one more time), in addition to standard validations. Custom validation rules are not run again.

 12) Run escalation rules.
- 13) If the record contains a roll-up summary field or is part of a cross-object workflow, performs calculations and updates the roll-up summary field in the parent record. Parent record goes through save procedure.
- 14) If the parent record is updated, and a grand-parent record contains a roll-up summary field or is part of a cross-object workflow, performs calculations and updates the roll-up summary field in the parent record. Grand-parent record goes through save procedure. 15) Run Criteria Based Sharing evaluation. 16) Commits all DML operations to the database.
- 17) Run post-commit logic, such as sending email.

316. What is Visualforce in Salesforce?

Visualforce is the component-based user interface framework for the Force.com platform. The framework includes a tag-based markup language, similar to HTML. Each Visualforce tag corresponds to a coarse or fine-grained user interface component, such as a section of a page, or a field. Visualforce boasts about 100 built-in components, and a mechanism whereby developers can create their own components.

- Visualforce pages can react differently to different client browsers such as those on a mobile or touch screen device.
- Everything runs on the server, so no additional client-side callbacks are needed to render a complete view.
- Optional server-side call outs can be made to any Web service.

Visualforce is a Web-based framework that lets you quickly develop sophisticated, custom UIs for Force.com desktop and mobile apps. Using native Visualforce markup and standard Web development technologies such as HTML5, CSS, JavaScript, and jQuery, you can rapidly build rich UIs for any app.

317. Let's say we have to update the same record in After Trigger context. Is there any way or workaround?

If we create a new instance of a sObject in the Apex Trigger in memory using the Id of the newly created record as provided in the After Trigger context, we can perform an Update DML statement and not get a read only error. This is because in Apex, the SObject is seen as a new reference (even though the records have the same SFDC ID) and therefore is eligible for DML operations. The below snippet of code illustrated this working and not working.

```
List<Contact> originals = new List<Contact>();
if(mirrorResultMap.values().size() > 0)
  for(Contact origContact : contactRecs.values())
    Contact mirrorContact = mirrorResultMap.get(origContact.Id);
    //origContact.Linked Contact c = mirrorContact.ld; //Link the Original Record tot he Mirror Record
WILL FAIL
    Contact
                origContactUpdate
                                       = new Contact(Id=origContact.Id,
                                                                          Linked Contact c
mirrorContact.Id); //This will WORK
    originals.add(origContactUpdate);
  //update contactRecs.values(); //Update the Records -> THIS WILL FAIL AS ITS ORIGINAL
RECORDS IN MEMORY
  update originals;
318. System.debug() statements are included against script count?
```

Any statement ending with semi-colon will be included against script count.

319. While trying to access javascript code from some CDN like Google, we get error something like "attempt to run uG request". How to resolve it?

While providing URL, do not specify the protocol.

Use like this:

<script type='text/javascript' src='//ajax.googleapis.com/ajax/libs/jquery/1.6.2/jquery.min.js'></script> 320. Explain ActionFunction, ActionSupport and ActionPoller in Visualforce.

apex:ActionFunction: This component helps to invoke AJAX request (Call Controllers method) directly from Javascript method. It must be child of apex:form.

apex:ActionSupport: This component adds Ajax request to any other Visualforce component.

Example: Commandlink button has inbuilt AJAX functionality however few components like OutputPanel does not have inbuilt AJAX capabilities. So with the help of this component, we can enable AJAX.

apex:ActionPoller: This is timer component which can send AJAX request on pre-defined interval. Minimum interval is 5 sec and default is 60 sec.

321. In how many ways you can invoke Controllers / Controller Extensions method from VF?

We can invoke Aprex Controllers or Controller Extensions using below methods.

- Javascript Remoting
- ActionFunction
- **ActionSupport**
- ActionPoller

322. What is the use of apex:detail component?

With the help of this Visualforce component, we can directly get complete behavior of page layout defined for logged in user's profile. There is no need to add fields, related lists explicitly.

323. What is the difference between "apex:dataTable" and "apex:pageBlockTable" components in Visualforce?

Both components are used to render data in tabular format.

DataTable	PageBlockTable
Not required	Should be defined inside pageBlock or
	pageBlockSection
No styles are used	Uses standard style sheets
Not Required	It has the required attribute "value"
We need to specify column headers	Column headers will be displayed
explicitly	automatically

dataTable will render records in simple HTML table format whereas the

pageBlockTable possess default look and feel of salesforce standard CSS and must be written inside "apex:pageBlock" component and a required argument value need to be passed for pageBlockTable.

324. User have all the permissions to see the Dashboard and Source Folder still when he wants to see dashboard, it's not visible. What might be the cause?

It is possible that Salesforce User license for Dashboard running user is different than User wants to access Dashboard.

Example – Running User license is "Salesforce" and user trying to access Dashboard is "Salesforce Platform".

325. How to implement the pagination in SOQL?

In spring 12, Salesforce has come up with ability of SOQL to get records from position "X" instead of position "1" every time to help creating pagination feature.

Pagination in SOQL using keyword Offset

Select Id, Name from Lead LIMIT 5 OFFSET 2

Above guery will return 5 Lead records starting from record number 10 (5×2).

326. How to generate the random string or random password using Apex?

Integer len = 10;

Blob blobKey = crypto.generateAesKey(128);

String key = EncodingUtil.convertToHex(blobKey);

String pwd = key.substring(0,len);

327. What is dynamic binding in salesforce?

Dynamic Visualforce bindings are a way of writing generic Visualforce pages that display information about records without necessarily knowing which fields to show. In other words, fields on the page are determined at run time, rather than compile time. This allows a developer to design a single page that renders differently for various audiences, based on their permissions or preferences. Dynamic bindings are useful for Visualforce pages included in managed packages since they allow for the presentation of data specific to each subscriber with very little coding.

Example 1:

Access the Account name from Contact.

{!myContact['Account'][fieldname]}

Consider Data type in Apex

public Map<String, List<Account>> accountsMap {get; set;}

Visualforce page:

<apex:variable value="A" var="selectedKey" />

<apex:pageBlockTable value="{!accountsMap[selectedKey]}" var="acc">

<apex:column value="{!acc.name}"/>

<apex:column value="{!acc.BillingStreet}"/>

<apex:column value="{!acc.BillingCity}"/>

```
<apex:column value="{!acc.BillingPostalCode}"/>
</apex:pageBlockTable>
328. How to convert lead using Apex?
Lead myLead = new Lead(LastName = 'Foo', Company='Foo Bar');
insert myLead;
Database.LeadConvert Ic = new database.LeadConvert();
lc.setLeadId(myLead.id);
LeadStatus
              convertStatus
                                   SELECT
                                               ld,
                                                     MasterLabel
                                                                     FROM LeadStatus
                                                                                             WHERE
IsConverted=true LIMIT 1];
lc.setConvertedStatus(convertStatus.MasterLabel);
Database.LeadConvertResult lcr = Database.convertLead(lc);
System.assert(lcr.isSuccess());
329. Consider total 90k records present in Salesforce and you have used the count() method of sogl.
What will be output of it? (we need to verify this feature in recent versions of the salesforce api's)
It will throw an error something like "Too many query rows: 50001", as the record limit in SOQL is 50,000.
Although the count() returns only one row however it processes each record and thus hit the allowed
governor limit.
330. How to get the Recordtype Id using Dynamic Apex?
Normally to get the Recordtypeld for any sObject we use SOQL and it will count against your limit. So
below method will bypass the need of SOQL Query.
Map<String, Schema.SObjectType> m = Schema.getGlobalDescribe();
Schema.SObjectType s = m.get('API_Name_Of_SObject');
Schema.DescribeSObjectResult cfrSchema = s.getDescribe();
Map<String,Schema.RecordTypeInfo> RecordTypeInfo = cfrSchema.getRecordTypeInfosByName();
Id rtld = RecordTypeInfo.get('Record Type Name').getRecordTypeId();
331. Write Apex code which will take the RecordID as input and on the basis of that it will print the Object
name and field names of sObject.
List<Schema.SObjectType> gd = Schema.getGlobalDescribe().Values();
Map<String,String> objectMap = new Map<String,String>();
for(Schema.SObjectType f : gd)
   objectMap.put(f.getDescribe().getKeyPrefix(), f.getDescribe().getName());
String sampleId ='00390000003LIVw';
String prefix = sampleId.substring(0,3);
String objectName = objectMap.get(prefix);
System.debug('** SObject Name ** '+objectName);
System.debug('** SObject Name ** '+objectName);
                              Schema.SObjectField>
                                                                       desResult
Map<String,
Schema.getGlobalDescribe().get(objectName).getDescribe().Fields.getMap();
List<String> fieldList = new List<String>();
fieldList.addAll(desResult.keySet());
for(integer i =0;i<fieldList.size();i++)</pre>
  System.debug('** Field Name ** '+fieldList[i]);
332. How to get "https" link instead of "http" for Visualforce page using URLFOR() in Email Template
When you create the Link using URLFOR() in Email Template, it creates link in "http" format instead of
"https" and thus causes end user to logged into salesforce again.
```

So instead of

```
<a href='{!URLFOR('/apex/SomePage',
                                                                                                    null.
[id=Some Object c.Id,retURL="/apex/SomeOtherPage"])}'>Go to SomePage here!</a>
We can use something like:
<a href='{!SUBSTITUTE(URLFOR('/apex/SomePage',
                                                                                                    null.
[id=Some_Object__c.Id,retURL="/apex/SomeOtherPage"]),'http:','https:')}'>Go to SomePage here!</a>
333. When you get the error "Non-selective query against large object type"? How to resolve it?
Whenever an object has greater than 100K records any query on that object must be "selective". For a
query to be selective it must have enough indexed filters (where clauses) so that less than 10% of the
records (in our example 10K) are returned before applying the limit statement.
334. In Controller extension, you are getting the error "SObject row was retrieved via SOQL without
querying the requested field" while accessing the field of parent Custom Object or standard Object for
which the Controller extension was written. How to resolve that?
In Constructor of the Controller extension, only Id of Custom Object is supplied. We need to query the
required field explicitly in order to use in remaining part of the code.
335. Using Apex how you can determine that user is in Sandbox or production?
By using below code, we can identify the given organization is a sandbox or production.
If the code returns true then it is a sandbox else it is a production.
public Static Boolean isSandbox(){
     String host = URL.getSalesforceBaseUrl().getHost();
     String server = host.substring(0,host.indexOf('.'));
    // It's easiest to check for 'my domain' sandboxes first
    // even though that will be rare
if(server.contains('--'))
return true;
     // tapp0 is a unique "non-cs" server so we check it now
if(server == 'tapp0')
return true;
    // If server is 'cs' followed by a number it's a sandbox
if(server.length()>2){
if(server.substring(0,2)=='cs'){
Integer.valueOf(server.substring(2,server.length()));
         }
catch(exception e){
            //started with cs, but not followed by a number
return false:
         //cs followed by a number, that's a hit
return true;
    // If we made it here it's a production box
return false;
336. Consider we have overall 90% code coverage however there is one class which has 0% code
coverage. Can we still able to deploy that class on production?
Yes. Minimum 1% required for every trigger and there is no such restriction for Apex class.
338. In Aiax toolkit for custom Javascript button, you have to explicitly login to API because global
```

Session variable is not available. In that case it is security vulnerable because anybody logged in can see

the javascript code and your username and password. So is there any way to avoid this?

We can create a visualforce page with output type as JavaScript. Global session variable is available in VF page.

Initialize the global javascript variable in that VF page. include VF page as a javascript file and we are done!

339. In Custom Component How we can return value to Custom Controller or Controller Extension?

In Apex, Objects are passed by reference. So supply an argument of wrapper class (object) type to custom component. If its value is changed in Custom component we will get updated value in controller also.

340. Let's consider you had created outbound changeset previously. After that, some class is modified which is part of that old changeset. If you clone that Changeset, current updated class will be included or that previous class will be included in changeset? (This need to be verified in recent versions)

Once changeset is created it cannot be modified. After creation of changset, if we modify any component it will not reflected and when we clone the changeset, all components (of course old copy of component) will be added to changeset.

341. In trigger, let's say we have system.debug() statement after adderror() method. Will system.debug() be statement executed in Trigger after adderror() method?

adderror() method is not error statement rather its normal execution flow and all the statements written after adderror() will be executed normally.

342. What will happen if you try to update record in After Trigger Context?

You will get an error saying "record is Read only".

343. Can you use aggregate expressions inside inner query? Explanation – Can you use Group by clause inside inner query in SOQL? Example: Something like:

SELECT Id, Name,(SELECT Count(Id),Name FROM Contacts Group By Name Havingcount(Id) > 1
) FROM Account

No. only root queries support aggregate expressions. Return type is List<AggregateResult> for above query However the root result expects List<Account> and there is no syntax or provision available in Salesforce to specify that child results are of type "AggregateResult".

344. What is the best way to check whether organization has PersonAccount enable or not using Apex? Method 1:

```
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' );
345. How to get selected records ID from List View using Javascript / Ajax Toolkit, when custom button is
added on List View page?
Create a new Button on Lead of type List Button. Add the button on Lead List View Layout and write
below Javascript code:
{!RequireScript("/js/functions.js")}
var recordsSelected = {!GetRecordIds($ObjectType.Lead)}
for(var i=0; i < recordsSelected .length ; i++) {
   alert('Selected ID '+recordsSelected[i]);
346. What is the default timeout period while calling webservice from Apex.
347. A single Apex transaction can make how many callouts to an HTTP request or an API call?
Maximum 10 callouts
348. How to increase timeout while calling web service from Apex?
docSample.DocSamplePort stub = new docSample.DocSamplePort();
stub.timeout_x = 2000; // timeout in milliseconds
349. How to show loading image while Ajax call in Visualforce? OR how to show image in
<apex:actionStatus> tag in Visualforce?
<div style="position:absolute;top:20px;left: 50%;">
       <apex:actionStatus id="refreshContent" >
              <apex:facet name="start" >
                     <apex:image url="{!$Resource.LoadingImage}" />
              </apex:facet>
       </apex:actionStatus>
</div>
350. How to add the Document Header in Visualforce page?
Directly there is no way to add the document type in visualforce. However in most of the cases IE9 does
not work with Visualforce pleasantly. And then we need to add the Document type in header. So following
workaround will work.
<apex:outputText escape="false" value="{!'<!DOCTYPE html PUBLIC \"-//W3C//DTD XHTML 1.0</pre>
Strict//EN\" \"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd\">'}"/>
<html>
  <head>
    <title>test</title>
  </head>
  <body>test</body>
</html>
</apex:page>
351. Onchange event does not work with <apex:actionsupport> in IE9. How to resolve this error?
```

If we add the Header on Visualforce page then it creates lots of problem in IE9. I think there are few javascript library loaded by Header of Salesforce which makes IE9 compatible. So the best solution is to

enable the Header by using "showHeader=true" in Apex page.

352. If IE9 is not working with your custom visualforce page then how to tell your visualforce code to run in IE8 compatibility mode?

Add following metatag to pages:

<meta http-equiv="X-UA-Compatible" content="IE=EmulateIE8" />

353. It may happen that above tips will not work as lots of time the page header already set. Then, how to achieve same result using Apex?

Add below line of code in Apex (Constructor)

Apexpages.currentPage().getHeaders().put('X-UA-Compatible', 'IE=8');

354. How to display the formatted number / date in Visualforce? Which component should be used?

Use component "<apex:outputText>".

Example: Format the number into currency.

<apex:outputtext value="{0, number, 000,000.00}">

<apex:param value="{!valFromController}" />

</apex:outputtext>

OR

<apex:outputtext value="{0, number, ###,###.00}">

<apex:param value="{!valFromController}" />

</apex:outputtext>

355. You want to display the Encrypted field on Visualforce and you are using component apex:outputText. Will it work for Encrypted fields?

Encrypted custom fields that are embedded in the <apex:outputText> component display in clear text. The <apex:outputText> component doesn't respect the View Encrypted Data permission for users. To prevent showing sensitive information to unauthorized users, use the <apex:outputField> tag instead.

356. Will below query work? Explain.

SELECT COUNT(Id), Name, Address__c FROM Opportunity GROUP BY Name

Above query will throw an error.

Explanation: In Group by clause the columns selected must be either used in Group by clause or in aggregate functions. The Name field is neither used in aggregate methods and in group by clause and hence will result in error "Malformed Query".

357. Explain difference in COUNT() and COUNT(fieldname) in SOQL.

COUNT()

- COUNT() must be the only element in the SELECT list.
- You can use COUNT() with a LIMIT clause.
- You can't use COUNT() with an ORDER BY clause. Use COUNT(fieldName) instead.
- You can't use COUNT() with a GROUP BY clause for API version 19.0 and later. Use COUNT(fieldName) instead.

COUNT(fieldName)

- You can use COUNT(fieldName) with an ORDER BY clause.
- You can use COUNT(fieldName) with a GROUP BY clause for API version 19.0 and later.

358. How to write the "Where" clause in SOQL when Group By is used?

We cannot use the "Where" clause with Group By instead we will need to use the "Having Clause". <u>Example:</u>

Get all the opportunity where more than one record exists with same name and name contains "ABC".

SELECT COUNT(Id) , Name FROM Opportunity GROUP BY Name Having COUNT(Id) 1 AND Name like '%ABC%'

359. Let's consider that the first component in VF page is the Datepicker. In that case whenever the page loads, salesforce auto focus the first component resulting in Datepicker onfocus event. Because of this the Datepicker component opens automatically. How we can avoid this?

On load event, write the javascript code to autofocus any other field or any other non-visible component. Example :

```
<span id="focusDistraction"></span>
<script type="text/javascript">
  /* prevent autopup of the date inputfield by the default focus behavoir */
  window.onload=function() {
  document.getElementById('focusDistraction').focus();
  }
</script>
360. How to force lead assignment rule via Apex while updating or adding the Lead?
To enforce Assignment Rules in Apex you will need to perform following steps:
1. Instantiate the "Database.DMLOptions" class.
2. Set the "useDefaultRule" property of "assignmentRuleHeader" to True.
3. Finally call a native method on your Lead called "setOptions", with the Database.DMLOptions instance
as the argument.
// to turn ON the Assignment Rules in Apex
Database.DMLOptions dmlOptn = new Database.DMLOptions();
dmlOptn.assignmentRuleHeader.useDefaultRule = true;
leadObj.setOptions(dmlOptn);
361. Access custom controller-defined enum in custom component?
We cannot reference the enum directly since the enum itself is not visible to the page and you can't make
it a property.
Example:
Apex class:
global with sharing class My Controller {
 public Case currCase {get; set; }
 public enum Status Value (RED, YELLOW, GREEN)
 public StatusValues getColorStatus() {
  return StatusValue.RED; //demo code - just return red
Visualforce page:
<apex:image url='stopsign.png' rendered="{!colorStatus == StatusValue.RED}"/>
         code
                  snippet
                                                     something
                                                                   like
                                                                          "Save
                             will
                                   throw
                                             error
                                                                                   Error:
                                                                                             Unknown
property'My Controller.statusValue"
Resolution:
Add below method in Apex Controller:
public String currentStatusValue { get{ return getColorStatus().name(); }}
and change Visualforce code to
<apex:image url='stopsign.png' rendered="{!currentStatusValue == 'RED'}" />
362. What is the need of "Custom Controller" in Visualforce as everything can be done by the
combination of Standard Controller + Extension class.
 Sharing setting is applied on standard object/extension by default; In case we don't want to apply
```

- sharing setting in our code then Custom controller is only option.
- It is possible that the functionality of page does not required any Standard object or may require more than one standard object, then in that case Custom controller is required.
 - 363. In class declaration if we don't write keyword "with sharing" then it runs in system mode then why keyword "without sharing" is introduced in apex?

Let's take example, there is classA declared using "with sharing" and it calls classB method. classB is not declared with any keyword then by default "with sharing" will be applied to that class because originating call is done through classA. To avoid this we have to explicitly define classB with keyword "without sharing".

364. If user doesn't have any right on particular record and have only read level access at object level. Can he change the record owner?

Yes. In profile, there is setting for "Transfer Record".

365. In Which Scenario share object "MyCustomObject__share" is not available/created for custom object "MyCustomObject"?

The object's organization-wide default access level must not be set to the most permissive access level. For custom

Objects, that is Public Read/Write.

366. How to get the picklist value in Apex class?

Using Dynamic apex, we can achieve this. On object of type pickilist, call getDescribe(). Then call the getPicklistValues() method. Iterate over result and create a list. Bind it to <apex:selectOptions>.

Code Example:

Let's say we have a custom object called OfficeLocation__c. This object contains a picklist field Country__c.

The first thing we need to do, within our controller is use the getDescribe() method to obtain information on

the Country c field:

Schema.DescribeFieldResult fieldResult = OfficeLocation__c.Country__c.getDEscribe();

We know that Country_c is a picklist, so we want to retrieve the picklist values:

List<Schema.PicklistEntry> ple = fieldResult.gerPicklistValues();

The only thing left for us to do is map the picklist values into an <apex:selectOptions> tag can use for display. Here is the entire method from our controller to do this:

public List<SelectOption> getCountries()

```
List<SelectOption> options = new List<SelectOption>();
```

```
Schema.DescribeFieldResult fieldResult =
OfficeLocation__c.Country__c.getDescribe();
List<Schema.PicklistEntry> ple = fieldResult.getPicklistValues();

for( Schema.PicklistEntry f : ple)
{
    options.add(new SelectOption(f.getLabel(), f.getValue()));
}
return options;
```

With our controller logic all complete, we can call the getCountries() method from our Visualforce page, and populate the <apex:selectList> tag:

```
<apex:selectList id="countries" value="{!Office_Location__c.Country__c}"
    size="1" required="true">
    <apex:selectOptions value="{!countries}"/>
</apex:selectList>
```

367. What are the types of controller in visual force?

There are basically two types of Controller in Visual force page.

- 1. Standard Controller and
- 2. Custom Controller

368. How many Controllers can be used on single VF page?

Only one controller can be used salesforce. Other than them, Controller extension can be used.

There may be more than one Controller extension.

Example:

```
<apex:page standardController="Account"</pre>
extensions="ExtOne,ExtTwo" showHeader="false">
<apex:outputText value="{!foo}" />
</apex:page>
```

if ExtOne and ExtTwo, both have the method getFoo() then the method of ExtOne will be executed.

A controller extension is any Apex class that contains a constructor that takes a single argument of typeApexPages.StandardController or CustomControllerName, where CustomControllerName is the name of a custom controller that you want to extend.

369. Explain System.runAs()

Generally, all Apex code runs in system mode, and the permissions and record sharing of the current user are not taken into account. The system method, System.runAs(), lets you write test methods that change user contexts to either an existing user or a new user. All of that user's record sharing is then enforced. You can only use runAs in a test method. The original system context is started again after all runAs() test methods complete.

Example:

```
System.runAs(u) {
// The following code runs as user 'u'
System.debug('Current User: ' + UserInfo.getUserName());
System.debug('Current Profile: ' + UserInfo.getProfileId()); }
// Run some code that checks record sharing
370. Explain Test.setPage().
```

It is used to set the context to current page, normally used for testing the visual force controller.

371. Difference between SOSL and SOQL in Salesforce?

SOSL	SOQL
Stands for "Salesforce object search language".	Stands for "Salesforce object query language".
Works on multiple object at a same time.	Need to write different SOQL for different object.
All fields are already text indexed.	SOQL against same field will be slow.
Cannot used in Triggers. Can only be used in Apex class and anonymous block.	Can be used in Apex class and Triggers.

372. How to round the double to two decimal places in Apex?

Decimal d = 100/3:

Double ans = d.setScale(2);

372. In how many ways we can invoke the Apex class?

- 1. Visualforce page
- 2. Trigger
- 3. Web Services
- 4. Email Services

373. Can we create Master Detail relationship on existing records?

No. As discussed above, first we have to create the lookup relationship then populate the value on all existing record and then convert it.

374. How validation rules executed? is it page layout / Visualforce dependent?

The validation rules run at the data model level, so they are not affected by the UI. Any record that is saved in Salesforce will run through the validation rules.

375. What is the difference between database insert and insert?

insert is the DML statement which is same as databse.insert.

However, database.insert gives more flexibility like rollback, default assignment rules etc. we can achieve the database.insert behavior in insert by using the method setOptions(Database.DMLOptions) Important Difference:

- If we use the DML statement (insert), then in bulk operation if error occurs, the execution will stop and Apex code throws an error which can be handled in try catch block.
- If DML database methods (Database.insert) used, then if error occurs the remaining records will be inserted / updated means partial DML operation will be done

376. What is the scope of static variable?

When you declare a method or variable as static, it's initialized only once when a class is loaded. Static variables aren't transmitted as part of the view state for a Visualforce page.

Static variables are only static within the scope of the request. They are not static across the server, or across the entire organization.

```
377. Other than SOQL and SOSL what is other way to get custom settings?
```

Other than SOQL or SOSL, Custom settings have their own set of methods to access the record.

For example: If there is custom setting of name ISO Country,

```
SO Country c code = ISO Country c.getInstance('INDIA');
```

//To return a map of data sets defined for the custom object (all records in the custom object), //you would use:

```
Map<String,ISO_Country__c> mapCodes = ISO_Country__c.getAll();
// display the ISO code for India
System.debug('ISO Code: '+mapCodes.get('INDIA').ISO_Code__c);
```

//Alternatively you can return the map as a list:

List<String> listCodes = ISO Country c.getAll().values();

378. What happens if child have two master records and one is deleted?

Child record will be deleted.

379. What is Difference in render, rerender and renderas attributes of visualforce?

render – It works like "display" property of CSS. Used to show or hide element.

rerender - After Ajax which component should be refreshed - available on commandlink, commandbutton, actionsupport etc.

renderas – render page as pdf, doc and excel.

380. How to get the list of all available sobject in salesforce database using Apex (Dynamic Apex)? Map<String, Schema.SObjectType> m = Schema.getGlobalDescribe();

381. How to create instance of sObject dynamically? Normally the sObject is created like "Account a = new Account();". But if you are in situation that you don't know which sObject is going to be instantiated? Means it will be decided at runtime, how you will handle it?

```
public SObject getNewSobject(String t){
  // Call global describe to get the map of string to token.
       Map<String, Schema.SObjectType> gd = Schema.getGlobalDescribe();
  // Get the token for the sobject based on the type.
       Schema.SObjectType st = gd.get(t);
  // Instantiate the sobject from the token.
       Sobject s = st.newSobject();
       return s;
382. How to get all the fields of sObject using dynamic Apex?
Map<String, Schema.SObjectType> m = Schema.getGlobalDescribe();
Schema.SObjectType s = m.get('API Name Of SObject');
Schema.DescribeSObjectResult r = s.getDescribe();
Map<String,Schema.SObjectField> fields = r.fields.getMap() ;
```

383. How to get all the required fields of sObject dynamically?

There is no direct property available in Apex dynamic API to represent the required field. However there is another way to know about it.

If any fields have below three properties then it is mandatory field.

- 1. If it is Creatable
- 2. If it is not nillable and
- 3. If it does not have any default value

384. What is property in Apex? Explain with advantages.

Apex mainly consists of the syntax from the well known programming language Java. As a practice of encapsulation in java we declare any variable as private and then create the setters and getters for that variable

```
private String name;
public void setName(String n)
{
   name = n;
}
public String getName()
{
   return name;
}
```

However, the Apex introduced the new concept of property from language C# as shown below: public String name {get; set;}

As we can see how simple the code is and instead of using nearly 8 to 11 lines all done in 1 line only. It will be very useful when lots of member is declared in Apex class. It has another advantage in "number of lines of code" limit by salesforce which will drastically reduced.

385. What is the controller extension?

Any apex class having a public constructor with Custom Controller or Standard Controller object as a single argument is known as controller extension.

386. Explain the need or importance of the controller extension.

Controller extension is very useful and important concept introduced by the salesforce recently. It gives the power to programmer to extend the functionality of existing custom controller or standard controller.

A Visualforce can have a single Custom controller or standard controller but many controller extensions.

We can say that the custom extension is the supporter of custom or standard controller.

Consider one example: If there is one controller written and used by the multiple visualforce pages and one of them needs some extra logic. Then instead of writing that logic to controller class (Which is used by many visualforce pages) we can create a controller extension and apply to that page only.

387. How to read the parameter value from the URL in Apex?

Consider that the parameter name is "RecordType".

String recordType = Apexpages.currentPage().getParameters().get('RecordType');

388. 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?

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 optimize on your SOQL queries.

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

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

i.e., Trigger.new is available in before insert, after insert, before update and after update

In Trigger.new 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.

i.e., Trigger.old is available in after insert, after update, before delete and after update.

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

Triggers can fire twice, once before workflows and once after workflows.

"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:

```
public class HelperClass {
   public static boolean firstRun = true;
}

trigger affectedTrigger on Account (before delete, after delete, after undelete) {
   if(Trigger.isBefore){
      if(Trigger.isDelete){
      if(HelperClass.firstRun){
            Trigger.old[0].addError('Before Account Delete Error');
            HelperClass.firstRun=false;
      }
    }
   }
}
```

394. What are Global variables explain with examples?

Global variables are the variables used to reference the general information about the current user or your organization on a page.

Example:

Global variables must be referenced using Visualforce expression syntax to be evaluated, for example, {!\$User.Name}.

List of available global variables are as below

- 1. \$Action
- 2. \$Api
- 3. \$Component
- 4. \$ComponentLabel
- 5. \$CurrentPage
- 6. \$Label
- 7. \$Label.Site
- 8. \$ObjectType
- 9. \$Organization
- 10. \$Page
- 11. \$Profile
- 12. \$Resource
- 13. \$SControl
- 14. \$Setup
- 15. \$Site
- 16. \$User
- 17. \$UserRole
- 18. \$System.OriginDateTime
- 19. \$ User.UITheme and \$User.UIThemeDisplayed

395. How to create Many to Many relationships between object?

Creating Many to Many relationship in salesforce is little tricky. You cannot create this type of relationship directly. Follow below steps to create this type of relationship.

Create both objects which should be interlinked.

Create one custom object (also called as junction object), which should have auto number as unique identification and create two master relationships for both objects, no need create tab for this object.

Now on both objects, add this field as related list.

396. 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 initialized 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.

397. 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.

398. What is a Visualforce Page?

Visualforce is the new markup language from salesforce, by using which, We can render the standard styles of salesforce. We can still use HTML here in Visualforce. Each visualforce tag always begins with "apex" namespace. All the design part can be acomplished by using Visualforce Markup Language and the business logic can be written in custom controllers associated with the Page.

399. Will Visual force still supports the merge fields usage like S-control?

Just like S-Controls, Visualforce Pages support embedded merge fields, like the {!\$User.FirstName} used in the example.

400. What are Merge fields? Explain with example?

Merge fields are fields that we can put in Email templates, mail merge templates, custom link or formula fields to incorporate values from a record.

Example: {!CustomObject.FieldName c}

401. Where to write Visualforce code?

You can write the code basically in 3 ways.

- 1. setup->App Setup->Develop->Pages and create new Visulaforce page.
- 2. Setup -> My Personal Information -> Personal Information -> Edit check the checkbox development mode. When you run the page like this, https://ap1.salesforce.com/apex/MyTestPage.you will find the Page editor at the bottom of the page. You can write you page as well as the controller class associated with it, there itself.
- 3. Using Eclipse IDE you can create the Visulaforce page and write the code.

402. What is difference in ISNULL and ISBLANK?

ISNULL:

- Determines if an expression is null (blank) and returns TRUE if it is. If it contains a value, this function returns FALSE.
- Text fields are never null, so using this function with a text field always returns false. For example, the formula field IF(ISNULL(new_c) 1, 0) is always zero regardless of the value in the New field. For text fields, use the ISBLANK function instead.
- Multi-select picklist fields are never null in s-controls, buttons, and email templates, so using this function with a multi-select picklist field in those contexts always returns false.
- Empty date and date/time fields always return true when referenced in ISNULL functions.

- Choose Treat blank fields as blanks for your formula when referencing a number, percent, or currency field in an ISNULL function. Choosing Treat blank fields as zeroes gives blank fields the value of zero so none of them will be null.
- Merge fields can be handled as blanks, which can affect the results of components like s-controls because they can call this function.
- When using a validation rule to ensure that a number field contains a specific value, use the ISNULL function to include fields that do not contain any value. For example, to validate that a custom field contains a value of '1,' use the following validation rule to display an error if the field is blank or any other number: OR(ISNULL(field__c), field__c<>1)
 ISBLANK:
- Determines if an expression has a value and returns TRUE if it does not. If it contains a value, this function returns FALSE.
- Use ISBLANK instead of ISNULL in new formulas. ISBLANK has the same functionality as ISNULL, but also supports text fields. Salesforce.com will continue to support ISNULL, so you do not need to change any existing formulas.
- A field is not empty if it contains a character, blank space, or zero. For example, a field that contains a space inserted with the spacebar is not empty.
- Use the BLANKVALUE function to return a specified string if the field does not have a value; use the ISBLANK function if you only want to check if the field has a value.
- If you use this function with a numeric field, the function only returns TRUE if the field has no value and is not configured to treat blank fields as zeroes.

403. How to schedule a class in Apex?

To invoke Apex classes to run at specific times, first implement the Schedulable interface for the class, then specify the schedule using either the Schedule Apex page in the Salesforce user interface, or the System.schedule method.

After you implement a class with the Schedulable interface, use the System. Schedule method to execute it. The scheduler runs as system: all classes are executed, whether the user has permission to execute the class or not.

The System.Schedule method takes three arguments: a name for the job, an expression used to represent the time and date the job is scheduled to run, and the name of the class.

Salesforce only adds the process to the queue at the scheduled time. Actual execution may be delayed based on service availability. The System. Schedule method uses the user's time zone for the basis of all schedules. You can only have 25 classes scheduled at one time.

Example Code:

```
String CRON_EXP = '0 0 * * * ?';
clsScheduledHourly sch = new clsScheduledHourly();
system.schedule('Hourly Sync', CRON_EXP, sch);
404. What are different APIs in salesforce.com?
```

REST API:

REST API provides a powerful, convenient, and simple REST-based Web services interface for interacting with Salesforce. Its advantages include ease of integration and development, and it's an excellent choice of technology for use with mobile applications and Web projects. However, if you have a large number of records to process, you may wish to use Bulk API, which is based on REST principles and optimized for large sets of data.

SOAP API:

SOAP API provides a powerful, convenient, and simple SOAP-based Web services interface for interacting with Salesforce. You can use SOAP API to create, retrieve, update, or delete records. You can also use SOAP API to perform searches and much more. Use SOAP API in any language that supports Web services.

For example, you can use SOAP API to integrate Salesforce with your organization's ERP and finance systems, deliver real-time sales and support information to company portals, and populate critical business systems with customer information.

Chatter API:

Chatter API is a REST API that provides programmatic access to Chatter feeds and social data such as users, groups, followers, and files. It's used by developers who want to integrate Chatter into a variety of applications such as mobile applications, intranet sites, and third-party Web applications. Chatter API is similar to APIs offered by other companies with feeds, such as Facebook and Twitter. Its advantages include ease of integration and development.

Bulk API:

Bulk API is based on REST principles and is optimized for loading or deleting large sets of data. You can use it to query, insert, update, upsert, or delete a large number of records asynchronously by submitting batches which are processed in the background by Salesforce.

SOAP API, in contrast, is optimized for real-time client applications that update small numbers of records at a time. Although SOAP API can also be used for processing large numbers of records, when the data sets contain hundreds of thousands of records, it becomes less practical. Bulk API is designed to make it simple to process data from a few thousand to millions of records.

The easiest way to use Bulk API is to enable it for processing records in Data Loader using CSV files. This avoids the need to write your own client application.

Metadata API:

Use Metadata API to retrieve, deploy, create, update, or delete customizations for your organization. The most common use is to migrate changes from a sandbox or testing organization to your production environment. Metadata API is intended for managing customizations and for building tools that can manage the metadata model, not the data itself.

The easiest way to access the functionality in Metadata API is to use the Force.com IDE or Force.com Migration Tool. These tools are built on top of Metadata API and use the standard Eclipse and Ant tools respectively to simplify the task of working with Metadata API. Built on the Eclipse platform, the Force.com IDE provides a comfortable environment for programmers familiar with integrated development environments, allowing you to code, compile, test, and deploy all from within the IDE itself. The Force.com Migration Tool is ideal if you want to use a script or a command-line utility for moving metadata between a local directory and a Salesforce organization.

Streaming API:

Use Streaming API to receive notifications for changes to data that match a SOQL query that you define.

Streaming API is useful when you want notifications to be pushed from the server to the client. Consider Streaming API for applications that poll frequently. Applications that have constant polling action against

the Salesforce infrastructure, consuming unnecessary API call and processing time, would benefit from this API which reduces the number of requests that return no data. Streaming API is also ideal for applications that require general notification of data changes. This enables you to reduce the number of API calls and improve performance.

Apex REST API:

Use Apex REST API when you want to expose your Apex classes and methods so that external applications can access your code through REST architecture. Apex REST API supports both OAuth 2.0 and Session ID for authorization.

Apex SOAP API:

Use Apex SOAP API when you want to expose your Apex methods as SOAP Web service APIs so that external applications can access your code through SOAP. Apex SOAP API supports both OAuth 2.0 and Session ID for authorization.

405. How to display error message on Visualforce page?

In the Visualforce page add the tag:

```
<apex:pageMessages />
```

In the controller class add the error message where required

```
if ( requiredFieldName == null){
```

ApexPages.addMessage(new ApexPages.Message(ApexPages.Severity.ERROR, 'Please enter a value in the Required Field'));

406. What is Visualforce View State? And what are best practices to reduce the view state size?

Visualforce pages that contain a form component also contain an encrypted, hidden form field that encapsulates the view state of the page. This view state is automatically created, and as its name suggests, it holds the state of the page – state that includes the components, field values and controller state.

Best Practices to reduce the view state size

- Minimize number of form on a page. Use apex:actionRegion instead of using 2 or more forms.
- Refine your SOQL to only retrieve the data needed by the page.
- All public and private data members present in Standard, Custom and Controller extensions are saved.
- Mark any Apex variables that are not necessary to the view state as Transient. (The transient variables are not passed to view state and therefore not stored in View State)
- Create wizards with as few pages as possible
- Use outputLink components instead of commandLink or commandButton components where possible as they don't need to be nested in a form.

407. What are custom settings?

Custom settings are similar to custom objects and enable application developers to create custom sets of data, as well as create and associate custom data for an organization, profile, or specific user. All custom settings data is exposed in the application cache, which enables efficient access without the cost of repeated queries to the database. This data can then be used by formula fields, validation rules, Apex, and the SOAP API.

There are two types of custom settings:

List Custom Settings

A type of custom setting that provides a reusable set of static data that can be accessed across your organization. If you use a particular set of data frequently within your application, putting that data in a list custom setting streamlines access to it. Data in list settings does not vary with profile or user, but is available organization-wide. Because the data is cached, access is low-cost and efficient: you don't have to use SOQL queries that count against your governor limits.

Hierarchy Custom Settings

A type of custom setting that uses a built-in hierarchical logic that lets you "personalize" settings for specific profiles or users. The hierarchy logic checks the organization, profile, and user settings for the current user and returns the most specific, or "lowest," value. In the hierarchy, settings for an organization are overridden by profile settings, which, in turn, are overridden by user settings.

408. What is APEX?

It is the in-house technology of salesforce.com which is similar to Java programming with object oriented concepts and to write our own custom logic.

- Apex is a procedural scripting language in discrete and executed by the Force.com platform.
- It runs natively on the Salesforce servers, making it more powerful and faster than non-server code, such as JavaScript/AJAX.
- It uses syntax that looks like Java
- Apex can written in triggers that act like database stored procedures.
- Apex allows developers to attach business logic to the record save process.
- It has built-in support for unit test creation and execution.

Apex provides built-in support for common Force.com platform idioms, including:

- Data manipulation language (DML) calls, such as INSERT, UPDATE, and DELETE, that include built-in DmlException handling
- Inline Salesforce Object Query Language (SOQL) and Salesforce Object Search Language (SOSL) queries that return lists of sObject records
- Looping that allows for bulk processing of multiple records at a time
- Locking syntax that prevents record update conflicts
- Custom public Force.com API calls that can be built from stored Apex methods
- Warnings and errors issued when a user tries to edit or delete a custom object or field that is referenced by Apex

Note: Apex is included in Unlimited Edition, Developer Edition, Enterprise Edition, and Database.com Apex vs. Java: Commonalities

- Both have classes, inheritance, polymorphism, and other common OOP features.
- Both have the same name variable, expression, and looping syntax.
- Both have the same block and conditional statement syntax.
- Both use the same object, array, and comment notation.
- Both are compiled, strongly-typed, and transactional.

Apex vs. Java: Differences

- Apex runs in a multi-tenant environment and is very controlled in its invocation and governor limits.
- To avoid confusion with case-insensitive SOQL queries, Apex is also case-insensitive.
- Apex is on-demand and is compiled and executed in cloud.
- Apex is not a general purpose programming language, but is instead a proprietary language used for specific business logic functions.
- Apex requires unit testing for development into a production environment.

409. Explain the Apex Data Manipulation Language (DML) Operations?

Use data manipulation language (DML) operations to insert, update, delete, and restore data in a database.

You can execute DML operations using two different forms:

Apex DML statements, such as:

insertSObject[]

</apex:page>

Apex DML database methods, such as:

Database.SaveResult[] result = Database.Insert(SObject[])

While most DML operations are available in either form, some exist only in one form or the other.

The different DML operation forms enable different types of exception processing:

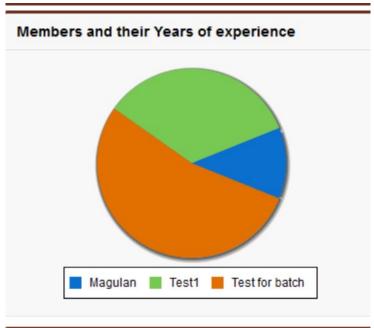
- Use DML statements if you want any error that occurs during bulk DML processing to be thrown as an Apex exception that immediately interrupts control flow (by using try. . .catch blocks). This behavior is similar to the way exceptions are handled in most database procedural languages.
 - Use DML database methods if you want to allow partial success of a bulk DML operation—if a record fails, the remainder of the DML operation can still succeed. Your application can then inspect the rejected records and possibly retry the operation. When using this form, you can write code that never throws DML exception errors. Instead, your code can use the appropriate results array to judge success or failure. Note that DML database methods also include a syntax that supports thrown exceptions, similar to DML statements

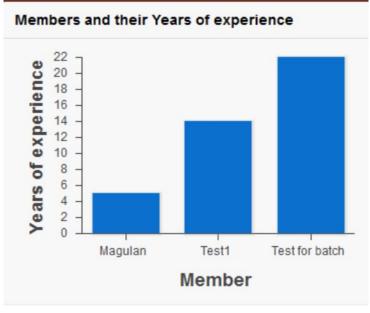
Pie chart and Bar chart using Apex in Visualforce page

```
Sample
                                                                                             Code:
Visualforce
                                                                                              page:
                                              controller="Graph"
<apex:page
                                                                           of
                           title="Members
                                              and
                                                       their
                                                                                  experience"
       <apex:pageblock
                                                                Years
                                    height="250"
                                                           width="350"
                                                                                  data="{!pieData}">
               <apex:chart
                                                        dataField="data"
                                                                                labelField="name"/>
               <apex:pieSeries
                                      tips="true"
                                     <apex:legend
                                                                                 position="bottom"/>
                                                                                      </apex:chart>
                                                                                 </apex:pageblock>
       <apex:pageblock
                           title="Members
                                                       their
                                                                                  experience"
                                               and
                                                                 Years
                                    height="250"
                                                           width="350"
                                                                                  data="{!pieData}">
               <apex:chart
         <apex:axis type="Numeric" position="left"
                                                      fields="data" title="Years
                                                                                  of experience"/>
                       type="Category"
                                          position="bottom"
                                                              fields="name" title="Member"/>
          <apex:axis
                              orientation="vertical"
                                                                                     yField="data"/>
                                                     axis="left"
                                                                   xField="name"
          <apex:barSeries
                                                                                      </apex:chart>
                                                                            </apex:pageblock>
```

Apex											Controller:		
public {	with			sharing			class			Graph			
	public				List <piewedgedata></piewedgedata>				getPieData()				
	List <piewedgedata> List<memberc></memberc></piewedgedata>						new new		List <piewedgedata>(); List<memberc>();</memberc></piewedgedata>				
	String	sql	=	'SELECT memb	Name,	Year_s	_Of_Exp =	erience	c	FROM Memberc'; Database.Query(sql);			
				memb	for(Memb		_			Dalaba	temp:memb)		
		data.	.add(new	PieWedgeData(temp.Name,temp.Year_s_0					r_s_Of_Ex	Of_Experiencec));		
					r	return				data;			
	// public			Wrapper class					class PieWedgeData				
		public public		String Decimal		ame data	{ {		get; get;		set; { set; }		
		public		PieWed	lgeData(St	eData(String		name,		Decimal	data)	data)	
l				this.n this.o				=		name; data; }			

Output:





411. Sample Visualforce page and apex controller to display account records based on selected picklist value

note: you can directly copy paste into you developer org

Visualforce Page:

```
<apex:pageBlock >
<apex:pageBlockSection >
<apex:inputField value="{!account.type}" styleClass="relative">

<apex:actionSupport event="onchange" action="{!recordValues}" reRender="val"/>
</apex:inputField>

</apex:pageBlockSection>
<apex:dataTable value="{!acc}" var="var" id="val">
<apex:column value="{!var.name}" headerValue="Name"/>
<apex:column value="{!var.type}" headerValue="type"/>
<apex:column value="{!var.industry}" headerValue="industry"/>
</apex:dataTable>
</apex:pageBlock>
</apex:pageBlock>
</apex:page>

Controller:
```

```
public with sharing class CustomReport
{
  public list<account> acc{set;get;}
  public account acct{set;get;}
   public CustomReport(ApexPages.StandardController controller)
    {
      this.acct = (Account)controller.getRecord();
    }
   public void recordValues()
   {
      acc=[select id,name,type,industry from account where type=:acct.type];
   }
}
```