

Interview Question on Batch apex

1)what is batch apex?

=>batch apex it is asynchronous process,asynchronous process it is method for which it wait for resources ,until it executed.

Batch apex methods?

1) start method

2) execute method

3) finish method

Start method

It will prepare the records to process and execute only one time.

Execute method

■ It will take the records prepared in start method and split those records into batches and it will execute multiple times.

■ For example if the start method is returning 1000 records then execute method executes 5 times if you

don't mention the batch size (Default Batch Size is: 200).

■ Maximum batch size is: 2000.

Finish method

We can perform post commit logic like sending emails with the success or error information. It will execute only one time.

2)what is database.state-full interface?

=>**Database.Stateful** in the class definition, you can maintain state across all transactions. When using Database.Stateful, only instance member variables retain their values between transactions. Maintaining state is useful for counting or summarizing records as they're processed.

3)why we use batch apex?

=>for executing large no of jobs asynchronously in batches.By using Batch apex, we can perform the DML operations on the bulk records at a time.

Batch Apex allows us to process max. of 50 million records.

4)what is database.batch-able interface?

=>**database.batch-able** interface that executed in batch apex,in batch apex 3 process executed, The class that implements this interface can be executed as a batch Apex job.

5)what is database.iterable<sobject>?

=>**database.iterable<sobject>** it used to fetch data from database,the governance limit of iterable is 50,000

6)how many batch job can be added to queue?

=>5

7)what is apex scheduler?

=>you run apex classes at specified time

8)what is mix dml error?

=>if we work setup and non setup object in one transaction,then it will through mix dml error.

9)what is job?

=>

10)what is mean database.allowcallout?

=>to use call out in batch apex,you must specify database.allowcallout in class definition.

11)what are types of asynchronous method?

=>

1)batch apex

2)queue-able

3)future method

12)difference between iterable and query-locator

=>

13)what parameter pass in execute method

=>there are 2 parameter pass in execute method, empty list, and database.batchable-context bc

14)what is state of batch apex

=>**stateless**

15)if batch having 200 records,1 record fails what will happen

=>if record in 1st batch failed,the entire 1st batch of 200 records will be rollback,next batch execute

16)can we call batch from another batch apex

=>Yes you can call a batch apex from another batch apex .Either in start method or in finish method you can call other batch

17)can we call batch apex from another batch of execute method

=Only in batch class finish method, We can call another batch class. If you will call another batch class from batch class execute and start method, then Salesforce will throw below runtime error.System.AsyncException: Database.executeBatch cannot be called from a batch start, batch execute, or future method.

18)what is batch execution time per day?

=>The maximum number of batch executions is 250,000 per 24 hours.

19)what is dml operation error?

=>

20)can we call future method in batch apex

=>no ,we cant

22)difference between queue-able and future

=>queue-able=>use for s object

2)we can schedule

3)we can monitor job using apex class

4)quable can call from future and batch

5)chaining is possible

future=>

1)use primitive data type

2)we can not schedule

3)we can not monitor job

4)future can not call

5)chaining not possible

23)what is inset and database.insert

=>insert-1)if we have 10 record,out of that 5 records correct and 5 records incorrect then entire record fail

2)partill rollback not use

3)rollback not use

database.insert=>

24)why we use future method

=>for run the process in saprate thread,provide benifts of not blocking user when performing other operation,provide higher governance and execution limit for process,long running operation,avoid mix dml error

25)governance limit of future method?

=>50

26)why dont pass sobject in future class?

=>because future method can change time between you call the method and time when execute

27)what is flex queue?

=>any job that submitted for execution but not proceed immediately by system go in holding status

28)while using future method what consideration give

=>future method must be static and can only return void

29)can we fix the order in which future method will run?

=>future method are not garented to execute in same order of they called,it also possible two future method run concurrently

30)how we call future method using process builder

=>using in-vocable method

31)how we test future method

=>by enclosing the your test code between the start test and stop test method

32)what is wrapper class

=>is class whose object wrap or contains the primitive data type

33)explain status of job in apex flex queue?

=>queued

Prepein

can we call web-service call-outs from batch apex?

yes we can call up to 100

database.allowcallouts=true

What is the Database.BatchableContext?

BatchableContext Interface is Represents the parameter type of a batch job method and contains the batch job ID.

How to track the details of the current running Batch using BatchableContext?

You can check the AsyncApexJob.Status using the JobId from the Database.BatchableContext

What is AsyncApexJob object?

AsyncApexJob is Represents an individual Apex sharing recalculation job.

How can we schedule a Batch Apex ?

Answer: We can schedule a Batch Apex in two ways from user interface & programmatically using System.scheduleBatch method.

What is the return type of System.schedule() ?

Answer: System.schedule() method returns Job ID.

Why to use Batch class as we already having data loader to process the bulk data.

Batch classes in Salesforce offer more flexibility, control, and asynchronous processing capabilities compared to Data Loader. They're ideal for handling complex data operations, large data volumes, and scheduling tasks such as data cleansing and migration.

Can you write a batch class blueprint?

```
1global class batch implements Database.Batchable <sObject> {
2
3    global (Database.QueryLocator or Iterable<sobject>)
4        start(Database.BatchableContext bc) {
5
6            //query on object;
7            //return Database.getQueryLocator(query);
8
9        }
10
11
12    global void execute(Database.batchableContext bc, List <sObject>
13scope) {
14
15        //some processing.
16    }
17
18    global void finish(Database.BatchableContext bc) {
19        //job such as sending email or calling another batch class
20
21    }
}
```

How to monitor Batch job?

Interviewee: To monitor the status of the jobs

1. From Setup, enter Jobs in Quick Find box
2. Select Apex Jobs

→ Go to Setup --->Apex Job page :

Why to call only from the finish method why not from execute?

Because the execute method will gets invoked multiple times based on the volume of the records and batch size.

Is there is any way through which we can call future method from batch apex?

As we know that a webservice can be called from batch class and webservice can call **@future** method. So in your batch class call web service and which can call your **@future** method. Also, you can call future methods from the finish method in the batch class.

How many can concurrent batch jobs be added to the queue?

At most, there can be 5 batch jobs queued at a time.

Can we call the batch apex from triggers in salesforce?

Yes it is possible, we can call a batch apex from trigger but we should always keep in mind that we should not call batch apex from trigger each time as this will exceeds the governor limit this is because of the reason that we can only have 5 apex jobs queued or executing at a time

How many times start, execute, finish methods will execute in batch apex?

Start method, finish method one time, execute method it depends on requirement.
Based on the batch size and data retrieved in Start method.

How can we track the status of the current running batch job?

The job Id returned by the batchable context variable helps us in finding the status of a batch through **AsyncApexJob** object.

How can you stop a Batch job?

The `Database.executeBatch` and `System.scheduleBatch` method returns an ID that can be used in `System.abortJob` method.

How Can I schedule a Batch Apex?

Through `System.scheduleBatch` Method, we can schedule batch for once at a future time. This method returns the **scheduled job ID** also called **CronTrigger ID**.

```
1String cronID = System.scheduleBatch(reassign, 'job example', 1);
2
3CronTrigger ct = [SELECT Id, TimesTriggered, NextFireTime
4                  FROM CronTrigger WHERE Id = :cronID];
5
6it possible to do Synchronous Web service callouts from scheduled apex?
```

Synchronous Web service callouts aren't supported from scheduled Apex. To make asynchronous callouts, use Queueable Apex, implementing the `Database.AllowCallouts` marker interface.

Can we call the scheduler from the future method?

Yes..!! We can call the scheduler from the future method.

Can I call Queue-able from a batch?

Yes, But you're limited to just one `System.enqueueJob` call per execute in the `Database.Batchable` class.

<https://learnfrenzy.com/blog/interview-questions-on-batch-apex-in-salesforce>