71. Batch Class Success and Failure Records - 11 May 2022

User Story 1] Update All the Account’s Rating to “Cold”.

Validation Rule, Rating should not be “Cold”, the Type is “Prospect”.

|  |  |  |
| --- | --- | --- |
| **Type** | **Rating** | **RESULT** |
| Prospect | Warm | **Fail** |
| Other | Warm | Success |
| Customer Direct | Warm | Success |
| Prospect | Warm | **Fail** |

Total = 197

Success = 188

Fail = 09

global class BatchAccountRating implements Database.Batchable<sObject>, Database.Stateful {

Set<Id> successIDSet = new Set<Id>();

Set<Id> failureIDSet = new Set<Id>();

global Database.QueryLocator start(Database.BatchableContext BC){

return Database.getQueryLocator('select Id, Type, Rating from Account where Rating!=\'Warm\' ');

}

global void execute(Database.BatchableContext BC, List<Account> accList){

if(!accList.isEmpty()){

for(Account objAcc : accList){

objAcc.Rating = 'Warm';

}

Database.SaveResult[] result = Database.update(accList,false);

Integer index=0;

for(Database.SaveResult sr : result){

if(sr.isSuccess()){

System.debug('Success Record = '+accList[index].Id);

successIDSet.add(accList[index].Id);

index++;

}

else{

System.debug('Failed Record = '+accList[index].Id);

failureIDSet.add(accList[index].Id);

index++;

}

}

}

}

global void finish(Database.BatchableContext BC){

List<Messaging.SingleEmailMessage> mailList = new List<Messaging.SingleEmailMessage>();

Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();

mail.setToAddresses(new String[] {'silvermicrosystems@gmail.com'});

mail.setSenderDisplayName('Silver Micro');

mail.setSubject('Account Rating Status');

mail.setPlainTextBody('Success '+successIDSet+'\n'+' Failed ID = '+failureIDSet);

mailList.add(mail);

if(!mailList.isEmpty()){

Messaging.sendEmail(mailList);

}

}

}

TO RUN:

Database.executeBatch(new BatchAccountRating(),50);

INTERVIEW:

1] What is a Batch class and why to use it.

2] Coding Test

3] Batch Chaining

4] How many batches can be active in a queue at a time? (5)

5] How many times Start, Execute and Finish method runs.

6] Batch Size range = 1-2000, By Default =200.

7] Is it compulsory to write a Finish method , when no code is available.

8] Can we call future method from Batch Class?

9] In How many ways we can schedule a Batch Class.

10] Cron for 12 May 2022 at 03:15 PM

0 15 15 12 5 ? 2022

11] How to track success and failed records.

30 Days

Deployment = 02

Test Class: 05

Integration = 07 Days

Lightning Flow = 03 Days

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