Project Name- Field Service Work Order Optimization MANAGEMENT

Name of the	Role	Email id
Students		
PUJARI VANAJA	TEAM LEADER	Vanajapujari5@gmail.com
KALYANKAR	MEMBER	Kr637918@gmail.com
REKHA BAI		
PENABADI	MEMBER	Pharathi879@gmail.com
HARATHI		

INTRODUCTION:

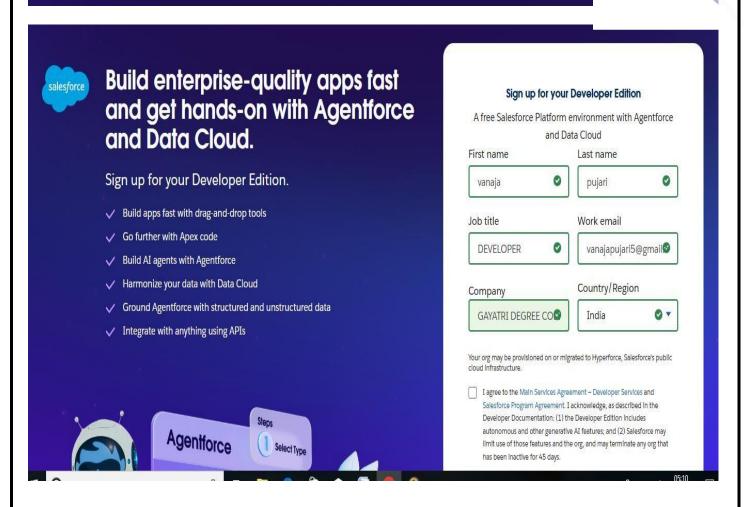
The Field Service Work Order Optimization System streamlines operations for a company providing installations and repairs. Utilizing arobust database, the system efficiently matcheswork orders with skilled technicians based on technician's location, availability, and skills. The system employs a prioritization algorithm, focusing on assigning tasks to technician. Automated communication keeps technicians informed, while analytics offer insights for continuous improvement. Overall, this solution maximizes efficiency, reduces operational costs, and improves customer satisfaction in the dynamic realm of field service operations.

CreatingaSalesforceDeveloperEditionorgallowsdeveloperstoexperiment,innovate ,and build customized solutions within a controlled environment. With access to Sales force's powerful development tools and features, developers can prototype, test, and refine their applications, empowering them to deliver robust and tailored solutions to meet unique business requirements. As a Sales force Developer for an organization you must have a Sales force developer edition org in order to do all the required works.

ACTIVITY1:Creating Developer Account

Creating a developer org in Sales force.

- 1. Go to https://developer.salesforce.com/signup
- 2. On the sign up form ,enter the following details:



Fields to fill in:

First Name : Vanaja
 Last Name : pujari

3. Email: vanajapujari5@gmail.com

4. Role:Developer

5. Company: GAYATRIDEGREECOLLEGE

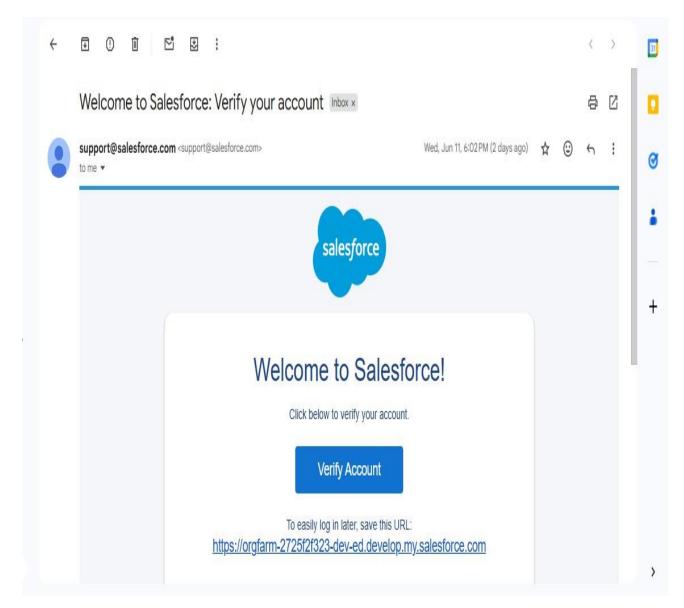
6. Country: India

This need not bean actual Email ID, you can give anything in the format :username@organization.com

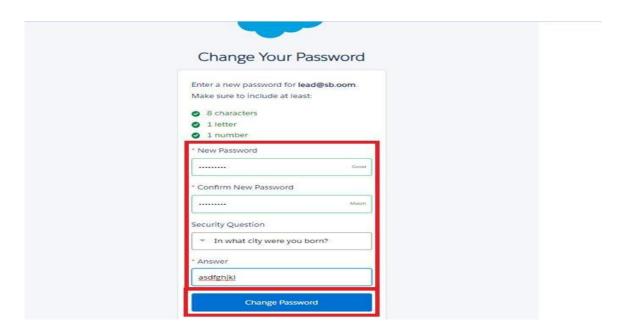
Click on sign me up after filling these.

ACTIVITY2:Account Activation

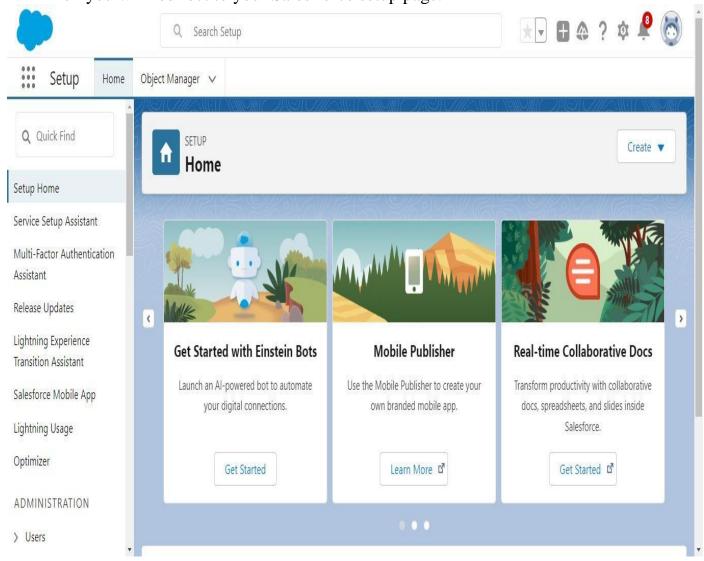
1. Gototheinboxoftheemailthatyouusedwhilesigningup. Clickontheverifyaccountto activate your account. The email may take 5-10mins.



- 2. Click on Verify Account
- 3. Give a password and answer a security question and click on change password.



4. Then you will redirect to your Sales force setup page.



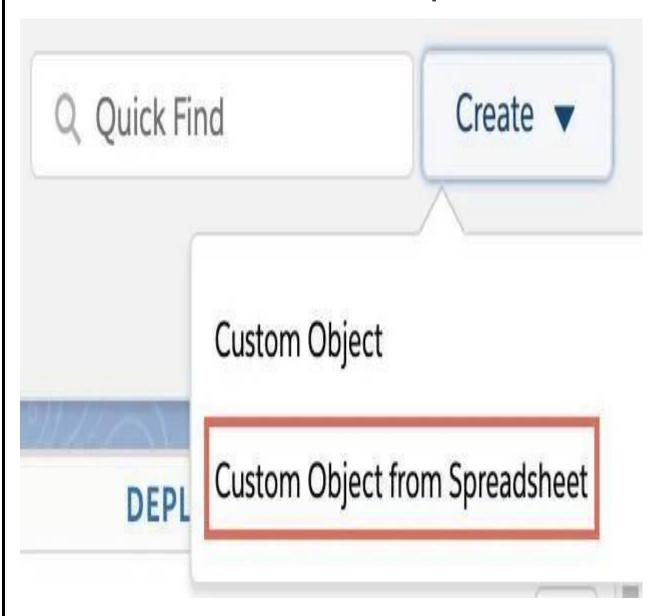
Object: To store the data as per business requirement.

ACTIVITY1: Create Technician Object

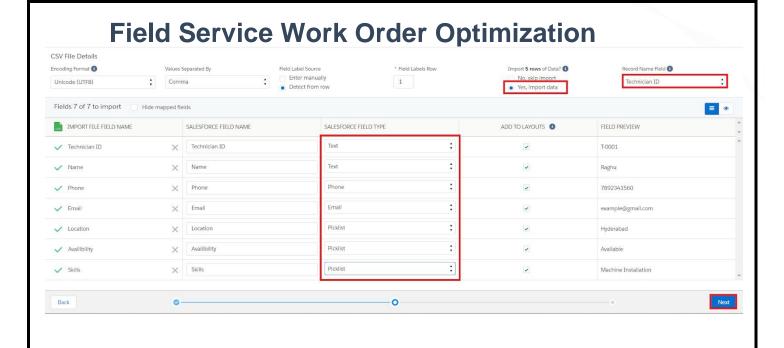
- 1. Download and open <u>this spreadsheet</u>, edit the email column(provide your email for at least one or two records) and save it as Technician.csv.
- 2. Login to your sales force account ,click on Gear icon ,then select Setup.
- 3. Click the Object Manager tab.



- 4. Click Create.
- 5. Select Custom Object from Spreadsheet.



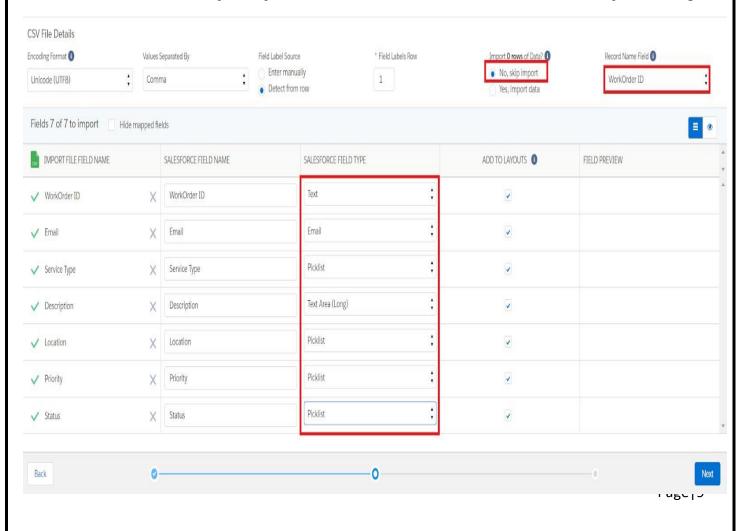
- 6. Click Login With Sales force.
- 7. EnteryourSalesforceaccountusernameandpassword.(whichyouhavecreatedinthe Milestone 1, Activity 1)
- 8. Click Log In.
- 9. Click Allow.
- 10. Click Upload.
- 11. Navigate to the Technician.csv fileyoudownloaded and uploadit. Sales force automatically detects the fields and populates all its record data. Choose Technician ID as the Record Name field and make sure all fields are with the proper data types as below as they are.

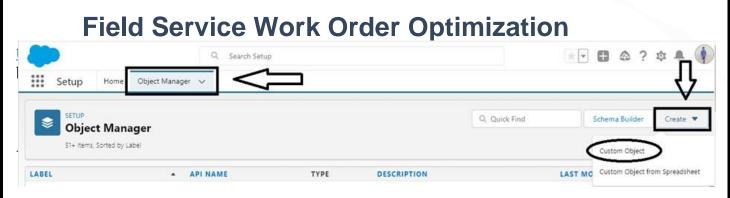


- 12. Click Next and enter the following settings.
- 13. ClickFinish. The Technician object is successfully created and data imported, all within minutes.

ACTIVITY2:CreateWork Order Object

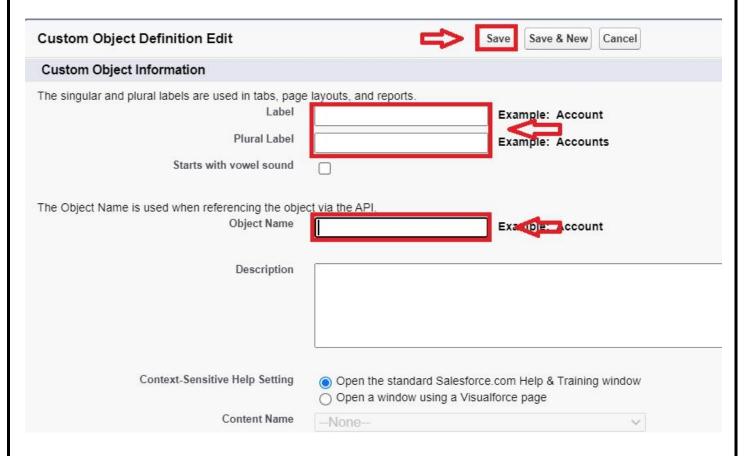
Create Work Order object ,just as we have created Technician Object using





Tocreatean object:

- 1. Enter the label name-->Assignment
- 2. Plural label name --> Assignments

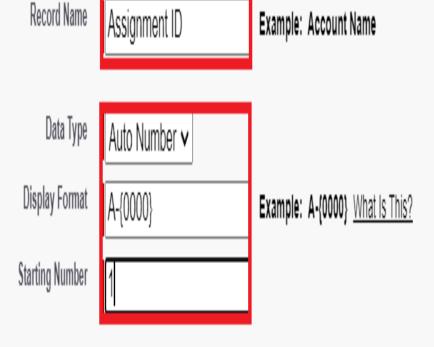


2.ClickonAllowreports, Allow search --> Save.

- 3. Enter Record Name Label and Format
 - Record Name-->Assignment ID
 - Data Type --> AutoNumber
 - Display Format-->A-{0000}
 - Starting Number-->1

Enter Record Name Label and Format

The Record Name appears in page layouts, key lists related lists, lookups, and search results. For example, the Record Name for Account is "Account Name" a



Tabs

A tab is like a user inter face that is used to build records for objects and to view the records in the objects.

ACTIVITY1:Creating a Custom Tab

To create a Tab:(Assignment)

1. Go to setup page -->type Tabs in Quick Find bar -->click on tabs--

>New(under custom object tab)

Custom Tabs

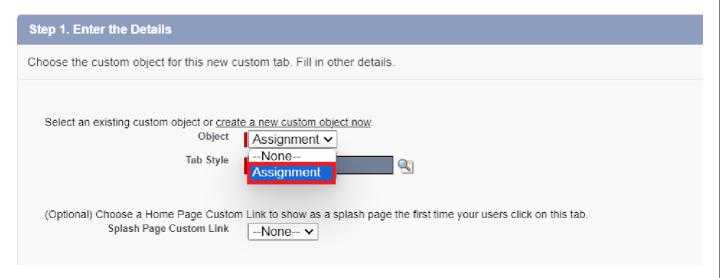
You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed exter allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigat you to add Lightning Pages to Lightning Experience and the mobile app.



2. Select Object(Assignment) -->Select any tab style -->Next(Add to profiles page) keep it as default --> Next (Add to Custom App) keep it as default --> Save.

New Custom Object Tab



Note: Tabs for Work Order & Technician objects do get created automatically. We do not need to create tabs for those objects.

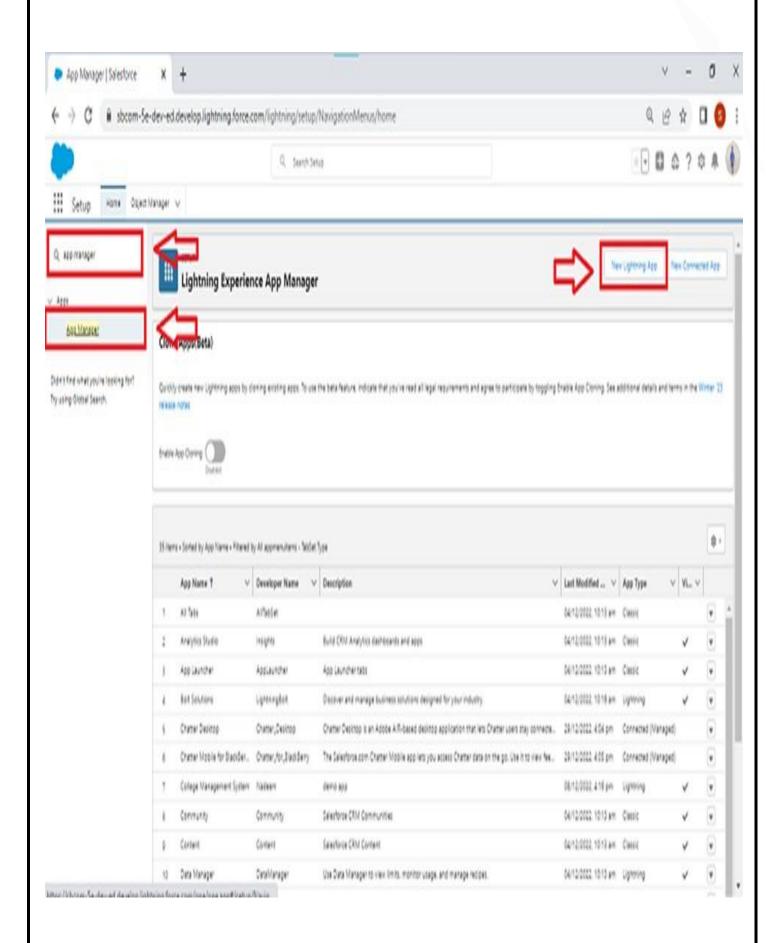
The Lightning App:

Well done you have reached close to your organization all requirement by creating the objects to store the organization's data. Making a data base for an organization is just no ten oughto reach out the requirements, the task is how the users at the organization can access the objects you have created for them

ACTIVITY1: Createa Lightning App

To create a lightning app page:

1. Go to setup page -->search "app manager "in quick find -->select "app manager"-->click on New lightning App.



2. Fill the app name in app details and branding as follows.

App Name :Field Service Work Order Optimization

Developer Name : this will auto populated

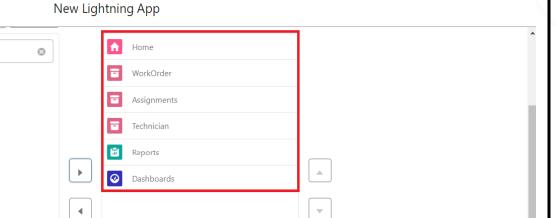
Description : Give a meaning full description

Image: optional(if you want to give any image you can other wise not mandatory) Primary color hex value: keep this default

3. Then click Next-->(App option page)keep it as default -->Next-->(Utility Items)keep it as default --> Next.

Field Service Work Order Optimization New Lightning App App Details & Branding Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar. App Details App Branding *App Name 0 lmage 0 Primary Color Hex Value Name your app... #007002 *Developer Name 0 🐧 Upload Enter a developer name... Description 0 Enter a description. Org Theme Options Use the app's image and color instead of the org's custom theme App Launcher Preview

4. To Add Navigation Items:

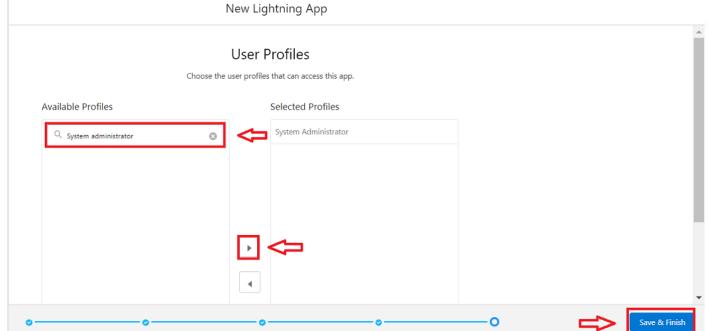


Search the items in the search bar(Home ,Work Order ,Technician ,Assignment ,Reports, Dashboard) from the search bar and move it using the arrow button ? Next. Note :select as set the custom object which we have created in the previous activity.

5. To Add User Profiles:

Q dashbo

Field Service Work Order Optimization New Lightning App



Search profiles(System administrator)in the search bar -->click on the arrow button -->save & finish.

Fields & Relationship:

Now it's time for you to think out of the box for your organization .You have successfully created

thedatabaseobjectsfortheorganization but now alleyes turn on you as you have to define what sort of information the objects store which you have created. As a life saver of your organization you come up with the idea of creating fields to store different types of data.

ACTIVITY1: Creating Lookup Field in Assignment Object

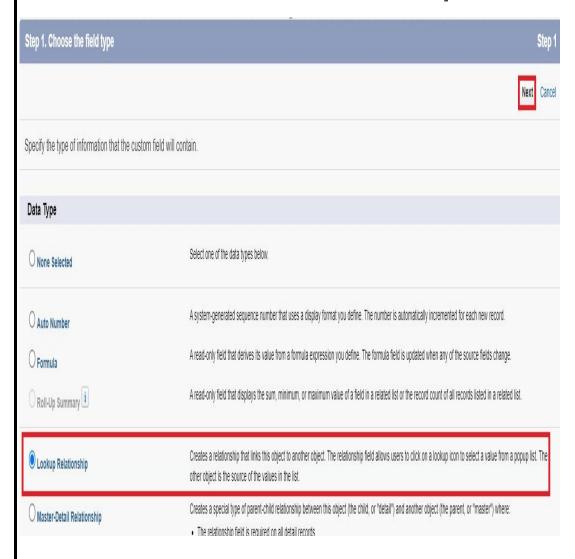
To create fields in an object:

1. Go to setup-->click on Object Manager-->type object name(Assignment)in quick find bar-->click on the object.





3. Select Data type as "Lookup".



- 4. Click on Next
- 5. For field label related to :select "Work Order" object and click Next.

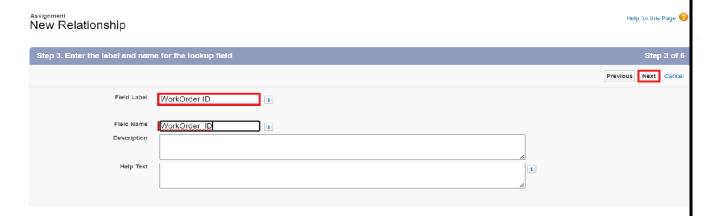
Note: Do not select other standard object with the same name for sake of ease copy the above and paste it.







6. Give Field Label as "Work Order ID" and click Next.



7. Next -->Next -->Save &New.

ACTIVITY2: Manage your pick list values

- 1. From the setup page go to object manager
- 2. Search and Select Work Order object.
- 3. Go to fields &relationship, select Location field, scroll down to values and click "New".



4. Add the below values:

Nasik Warangal Nanded

5. Click Save.

Add Picklist Values

Location

Add one or more picklist values below. Each value should be on its own line and it is used for both a value's label and API name.

If a value matches an inactive value's API name, that value is reactivated with its previous label.

If a value matches an inactive value's label but not the API name, a new value is created.



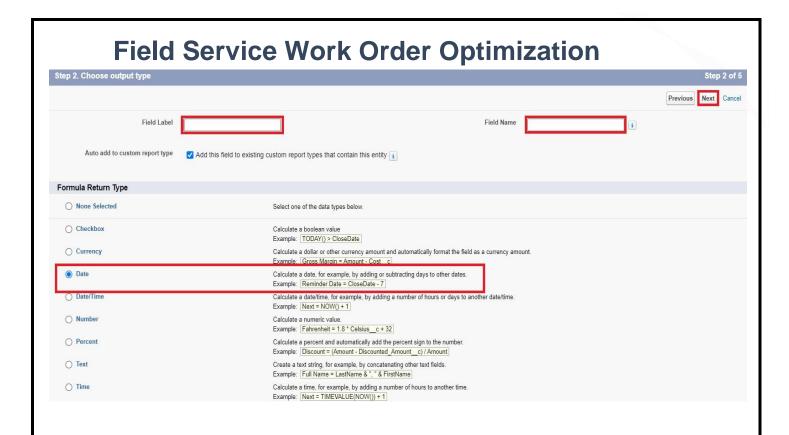
ACTIVITY3: Manage your pick list values

Add following values to the respective fields in Work Order object:

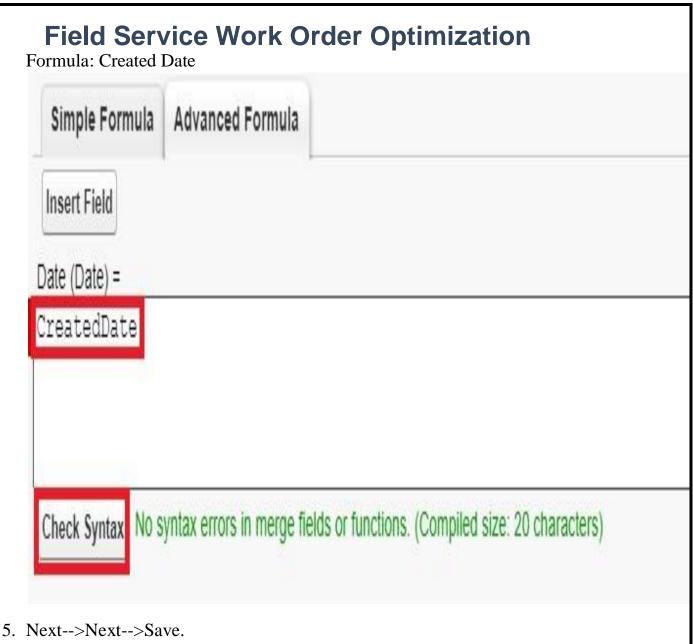
Field	Values
Priority	High
Service Type	Hardware repair Troubleshoot/Debug ging Lane- Management

ACTIVITY4: Creating Formula Field in Work Order Object

- $1. \ Repeats tep 1 and 2 mentioned in activity 1$
- 2. Select Data type as "Formula "and click Next.
- 3. GiveFieldLabelandFieldNameas"Date"andselectformulareturntypeas"Date" And click next.



4. Under Advanced Formula write down the formula and click "Check Syntax"



ACTIVITY5: Creating Remaining fields for the respective objects

Now create the remaining fields using the data types mentioned in the table.

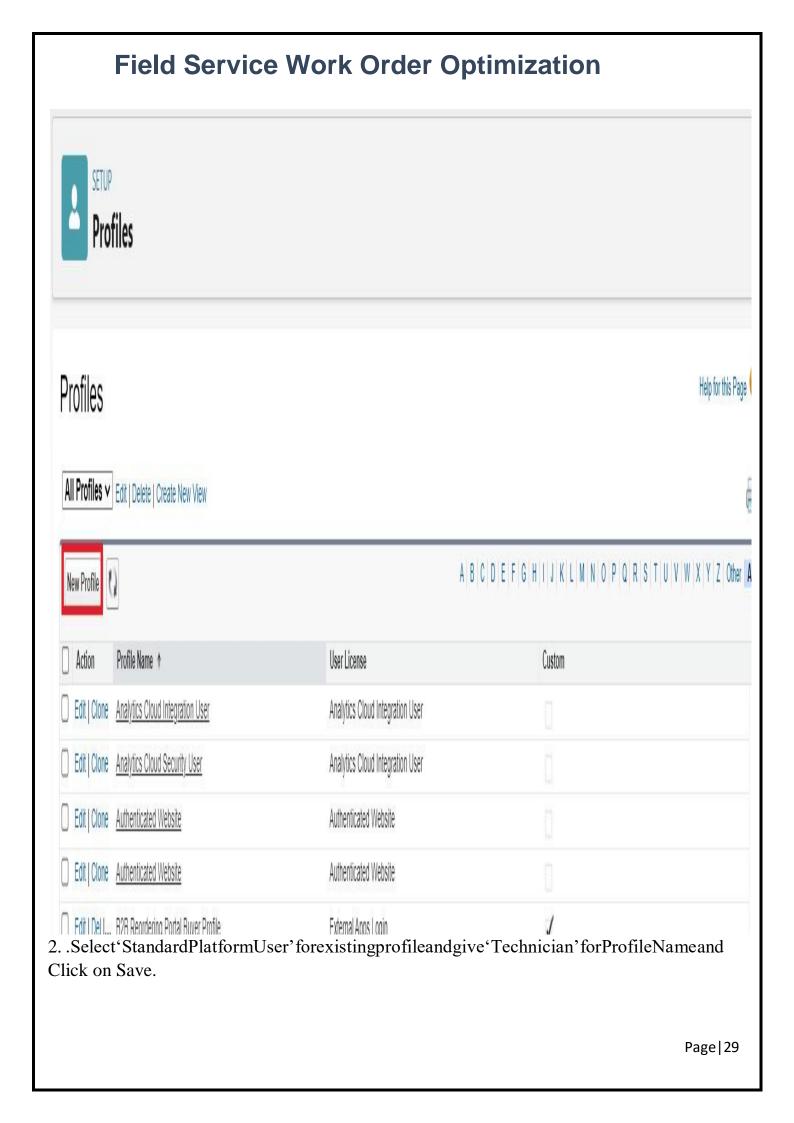
SI N	Obje ct Nam	Field		
0	e	Field Name	Data type	
1	Assignmen t	 Technician ID Assignment Date Completion Date 	Lookup(Technician) Formula: return type : Date (Work Order_IDr.Datec) Formula: return type : Date IF(ISPICKVAL(Work Order_IDr.Statusc,'Resolved'), Work Order_IDr.LastModifiedDate , NULL)	

Profiles

Profile defines what an user is at ble to do or see in the Sales force Org

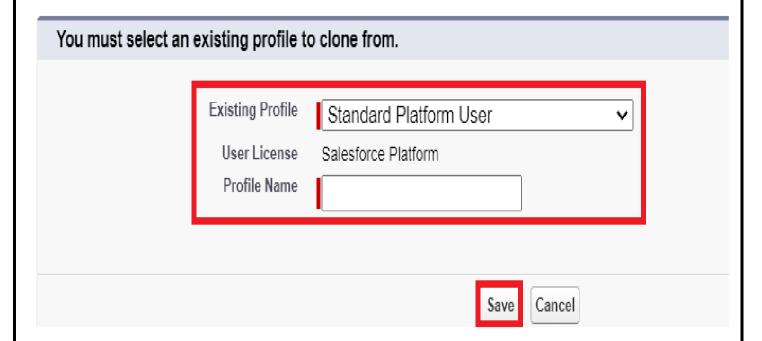
ACTIVITY1: Technician Profile

1. Go to setup-->type profiles in quick find box -->click on profiles -->click on new profile.

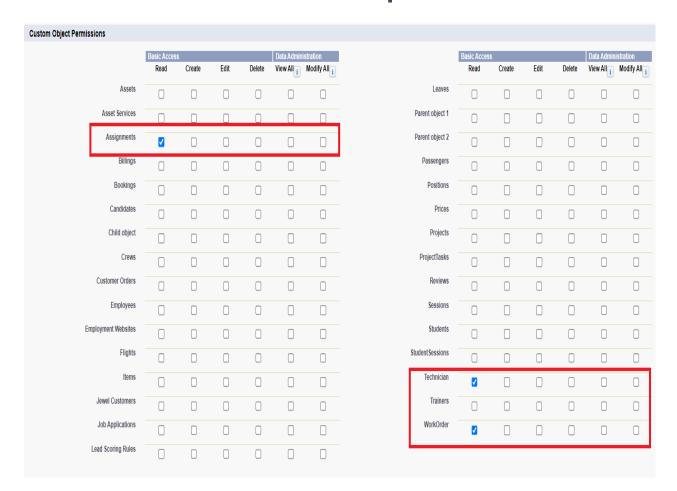


Clone Profile

Enter the name of the new profile.



- 3. While still on the profile page ,then click Edit.
- 4. Scroll down to Custom Object Permissions and Give Read only access permissions for Technician ,Work Order and Assignment objects and field access permission as shown below:



- 5. Scroll down and Click on Save.
- 6. Nowfromtheprofiledetailpagescrolldowntocustomfieldlevelsecurityclickonviewnext to Work Order object.



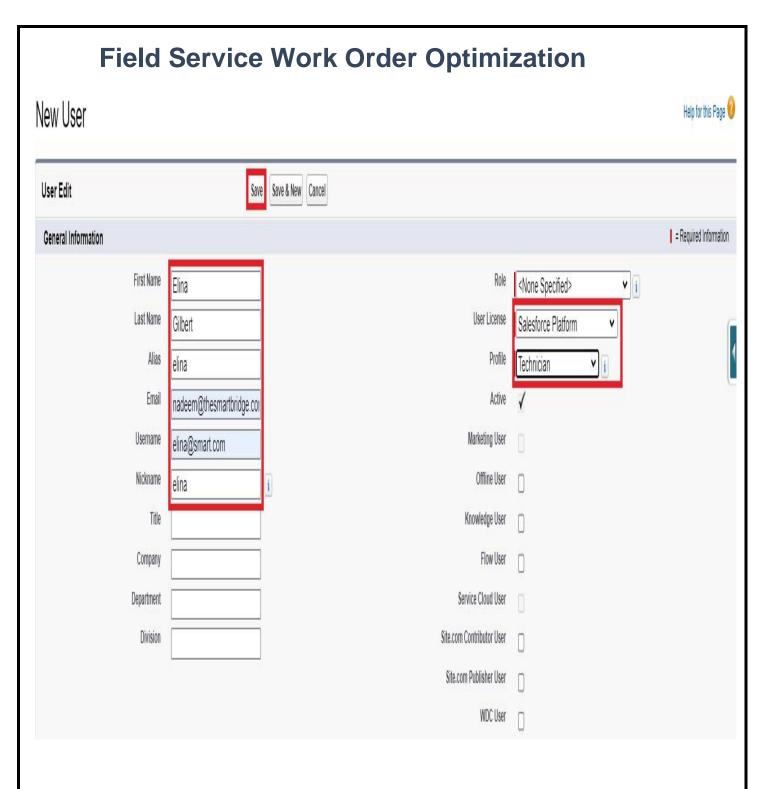
7.Click on Save.

Users:

Users are defined as the employees of your organization

ACTIVITY1:CreateUser

- 1. Go to setup-->type users in quick find box-->select users-->click New user.
- 2. Fill in the fields
 - 1. First Name: Elina
 - 2. Last Name: Gilbert
 - 3. Alias :Give a Alias Name
 - 4. Email id: Give your Personal Email id
 - 5. User name :User name should be in this form :text@text.text
 - 6. Nick Name : Give a Nick name
 - 7. Role:
 - 8. User license: Sales force Platform
 - 9. Profiles: Technician

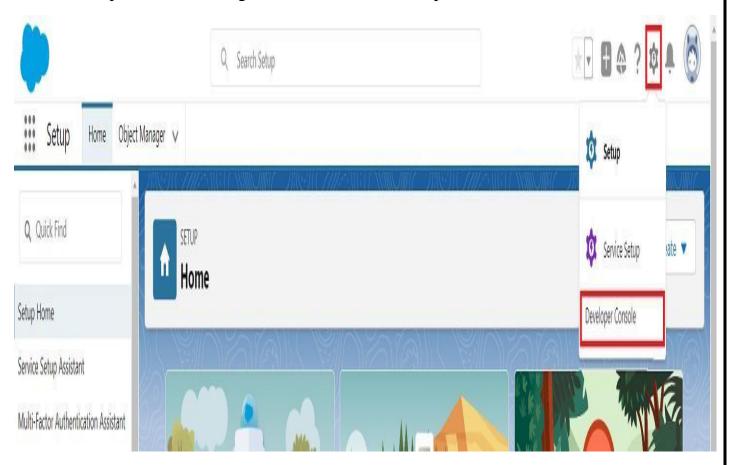


3. Save

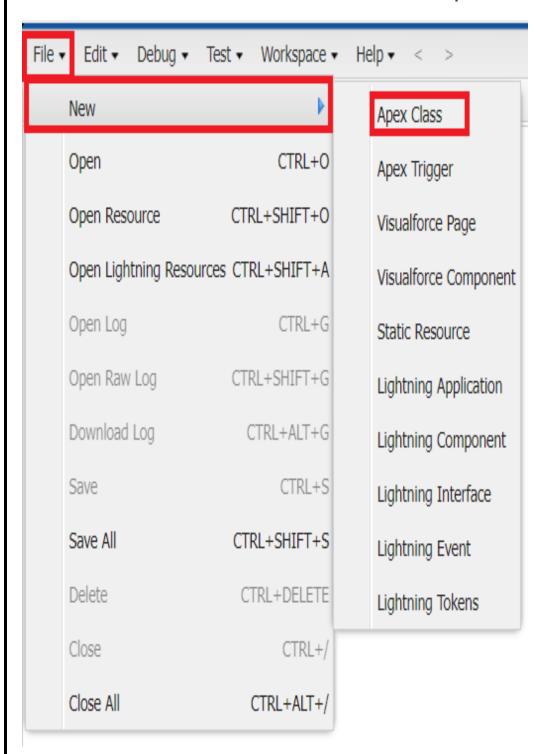
Apex Trigger

ACTIVITY1: Createan Apex Class

1. Go to Setup-->Click on the gear icon-->Select Developer Console.



- 2. Then we can see the Developer console .Click on the developer console and you will navigate to a new console window.
- 3. To create a new Apex Class follow the below steps: Click on the file --> New --> Apex Class.



4. Givethe Apex Class name as "Work Order Class".



- 5. Click ok.
- 6. Now write the code logic here

```
File • Edit • Debug • Test • Workspace • Help • < >
WorkOrderTrigger.apxt X WorkOrderClass.apxc X
 Code Coverage: None • API Version: 59 •
 1 • public class WorkOrderClass {
         public static void workOrder(List<WorkOrder_C> newListWorkOrder){
              Map<Integer, List<String>> maptotech = new map<Integer,List<String>>();
 4
              integer num = 0;
 5
             List<WorkOrder c> properWo = new List<WorkOrder c>();
 6
             List<Assignment_c> lstAssignment = new List<Assignment_c>();
 7
             List<Technician_c> techniciantoAssignment = new List<Technician_c>();
 8 4
              for(WorkOrder c iter : newListWorkOrder){
 9
                  List<String> lststring = new List<string>();
 10 *
                  If(iter.Service_Type_c != null && iter.Location_c != null ){
                     num = num+1;
 12
                     properWo.add(iter);
                     lststring.add(iter.Service_Type_c);
 14
                     lststring.add(iter.Location_c);
 15
 16
                      maptotech.put(num,lststring);
 17
 18
 19
              Map<integer, Id> techId = new Map<integer, Id>();
 20
              Map<Id, Technician _c> allTechnician = new Map<Id, Technician _c>([SELECT Id, Name, Phone _c, Location _c, Skills _c, Availibility _c, Name _c, Email _c FROM Technician _c]);
 21
              integer num2 = 0;
 22 •
             For(Technician_c T : allTechnician.values()){
                  num2 = num2+1;
 24 *
                  if(maptotech.get(num2) != null){
 25
                     List<string> valofmap = maptotech.get(num2);
 26
                  system.debug('error 1 ----> the maptotech is empty ---> ' + maptotech.get(num2));
 27 •
                  if(valofMap.contains(t.Skills_c) && ValofMap.contains(t.Location_c) && t.Availibility_c == 'Available'){
 28
                     techid.put(num2, t.Id);
 29
 30
 31
 32
              integer num3 = 0;
3/1.4
              For/WorkOrder c W . nronerWolf
```

Source Code:

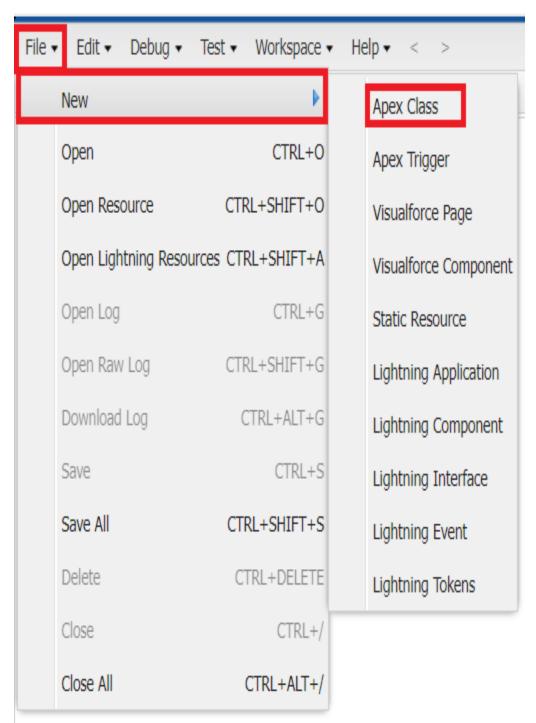
```
Public class Work Order Class {
 public static void Work Order(List<Work OrderC> newListWork
   Order){
   Map<Integer,List<String>>maptotech=newmap<Integer,List<
   String>>(); integer num = 0;
   List<Work Orderc> properWo = new List<Work Orderc>();
   List<Assignmentc>
                             lstAssignment
                                                           new
   List<Assignmentc>();
   List<Technicianc>techniciantoAssignment=newList<Technici
    anc>(); for(Work Orderc iter : newListWork Order){
     List<String> lststring = new List<string>();
     If(iter.Service_Typec!=null&&iter.Locationc!=n
     ull){
       num
                          num+1:
       properWo.add(iter);
       lststring.add(iter.Service_Typec);
       lststring.add(iter.Locationc);
       maptotech.put(num,lststring);
   Map<integer,Id>techId=newMap<integer,Id>();
   Map<Id,Technicianc>allTechnician=newMap<Id,Technicianc>([SELECTId,Name,P
honec, Locationc, Skillsc, Availibilityc, Namec, Emailc FROMTechnicianc]);
   integernum2=0;
   For(TechniciancT:allTechnician.value
     s(){ num2 = num2+1;
     if(maptotech.get(num2)!=null){
       List<string>valofmap=maptotech.get(num2);
     system.debug('error 1 ----> the maptotech is empty ---> ' + maptotech.get(num2));
     if(valofMap.contains(t.Skillsc)&&ValofMap.contains(t.Locationc)&&t.Availibilityc=
     ='Available'){
       techid.put(num2,t.Id);
```

```
}
integernum3=0;
For(Work
   OrdercW:properWo){ num3
   = num3 + 1;
   AssignmentcA=newAssignmentc();
   A.Work Order_IDc = W.Id;
   A.Technician_IDc = techid.get(num3);
   lstAssignment.add(A);
}
If(!lstAssignment.IsEmpty(
   )){ insert lstAssignment;
}
}
```

7. Save the code.(click on file--> Save)

ACTIVITY2: Createan Apex Trigger

1. To create a new Apex Class follow the below steps: Click on the file-->New-->Apex Class.



2. Give the Apex Trigger name as "Work Order Trigger",and select "Work Order___c" from The drop down fors Object.

New Apex Trigger Name: sObject: Submit

- 3. Click Submit.
- 4. Now write the code logic here

Source Code:

```
trigger Work Order Trigger on Work Order__c(afterinsert){
   if(trigger.isafter && trigger.isinsert){
     Work OrderClass.Work Order(trigger.new);
   }
}
```

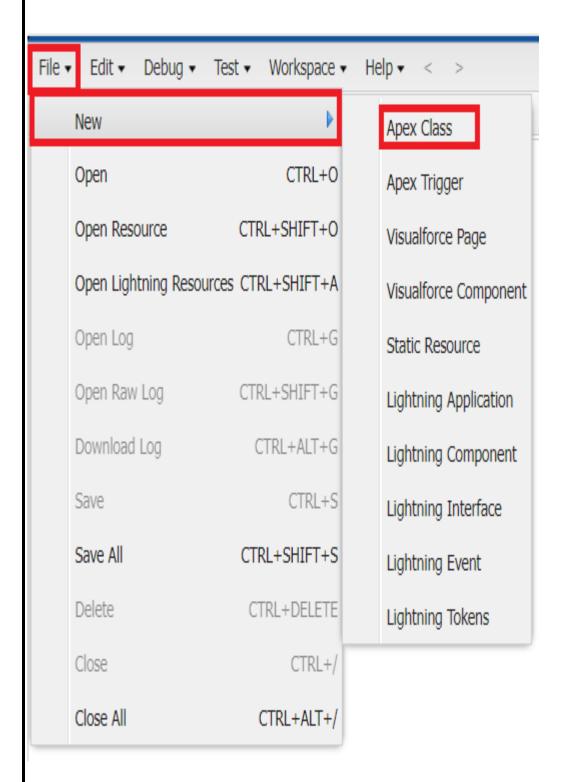
5. Save the code.(click on file-->Save)

ACTIVITY3: Createan ApexClass

1.Go to Setup-->Click on the gear icon-->Select Developer Console.



- 2. ThenwecanseetheDeveloperconsole.Clickonthedeveloperconsoleandyouwill navigate to a new console window.
- 3. To create a new Apex Class follow the below steps: Click on the file --> New --> Apex Class.
- 4. Give the Apex Class name as "Assigning Email".





- 4. Click ok.
- 5. Nowwritethecodelogichere

```
File • Edit • Debug • Test • Workspace • Help • < >
AssigningEmail.apxc ×
 Code Coverage: None • API Version: 59 •
 1 • public class AssigningEmail {
         public static void sendEmailmsg(List<Assignment_c> assRec){
             List<messaging.SingleEmailMessage> myVar = new List<messaging.SingleEmailMessage>();
 4
             Map<id, Technician_c> tecnicians = new Map<id, Technician_c>([SELECT Id, Phone_c, Location_c, Skills_c, Name_c, Email_c, Availibility_c, Name FROM Technician_c]);
 5 •
             try{
                 for(Assignment c con : assRec){
 6 *
 7 *
                     if(con.Technician ID c != null){
                         messaging.SingleEmailMessage mail = new messaging.SingleEmailMessage();
 8
                         List<String> sendTo = new List<String>();
 9
                          sendTo.add(tecnicians.Get(con.Technician_ID__c).Email__c);
 10
                         mail.setToAddresses(sendTo);
                         string subject = ' email sub';
 12
 13
                         mail.setSubject(subject);
                         string body = 'email body ';
 14
 15
                         mail.setHTMLbody(body);
 16
                         myVar.add(mail);
 18
 19
                 Messaging.sendEmail(myvar);
 20
             catch(exception e){
 21 *
 22
                 system.debug('Error ----> ' + e.getMessage());
 23
 24
 25
 26 }
```

```
Source Code:
publicclassAssigningEmail{
                               sendEmailmsg(List<Assignmentc>
 public
            static
                      void
                                                                     assRec){
   List<messaging.SingleEmailMessage>myVar=newList<messaging.SingleEma
   ilMessage>();
   Map<id, Technicianc>tecnicians=newMap<id, Technicianc>([SELECTId, Phonec, Locati
onc, Skillsc, Namec, Emailc, Availibilityc, Name FROM Technicianc]);
     for(Assignmentc
                         con
       assRec){
       if(con.Technician_IDc!=nu
       11){
         messaging.SingleEmailMessagemail=newmessaging.SingleEmailMessa
                   List<String>
                                    sendTo
                                                               List<String>();
                                                      new
         ge();
         sendTo.add(tecnicians.Get(con.Technician_IDc).Emailc);
         mail.setToAddresses(sendTo);
                                  OrderAssignment';
         stringsubject='Work
         mail.setSubject(subject);
         stringbody='ThefollowingWork
         Orderhasbeenassignedtoyou'; mail.setHTMLbody(body);
         myVar.add(mail);
     Messaging.sendEmail(myvar);
   catch(exceptione){
     system.debug('Error >'+ e.getMessage());
 }
}
SourceCode:
publicclassAssigningEmail{
                               sendEmailmsg(List<Assignmentc>
 public
            static
                      void
                                                                     assRec){
   List<messaging.SingleEmailMessage>myVar=newList<messaging.SingleEma
   ilMessage>();
   Map<id, Technicianc>tecnicians=newMap<id, Technicianc>([SELECTId, Phonec, Locati
onc, Skillsc, Namec, Emailc, Availibilityc, Name FROM Technicianc]);
   try{
```

```
for(Assignmentc
                         con
       assRec){
       if(con.Technician_IDc!=nu
       11){
         messaging.SingleEmailMessagemail=newmessaging.SingleEmailMessa
                   List<String>
         ge();
                                    sendTo
                                                       new
                                                                List<String>();
         sendTo.add(tecnicians.Get(con.Technician_IDc).Emailc);
         mail.setToAddresses(sendTo);
         stringsubject='Work
                                  OrderAssignment';
         mail.setSubject(subject);
         stringbody='ThefollowingWork
         Orderhasbeenassignedtoyou'; mail.setHTMLbody(body);
         myVar.add(mail);
     Messaging.sendEmail(myvar);
   catch(exceptione){
     system.debug('Error >'+ e.getMessage());
6. Save the code.(click on file--> Save)
```

Page | 48

ACTIVITY4: Createan Apex Trigger

To create a new Apex Class follow the below steps:

1. Click on the file-->New-->Apex Class.



2. GivetheApexTriggernameas"AssignmentTrigger",andselect"Assignment__c"fromthe Drop down for as Object.

New Apex Trigger Name: sObject: Submit

- 3. Click Submit.
- 4. Now write the code logic here

ACTIVITY5: Create an Apex Class

```
Code Coverage: None • API Version: 59 •

1 • trigger AssignmentTrigger on Assignment_c (after insert) {
2 • if(Trigger.IsAfter && Trigger.IsInsert){
3          AssigningEmail.sendEmailmsg(Trigger.New);
4     }
5 }
```

Source Code:

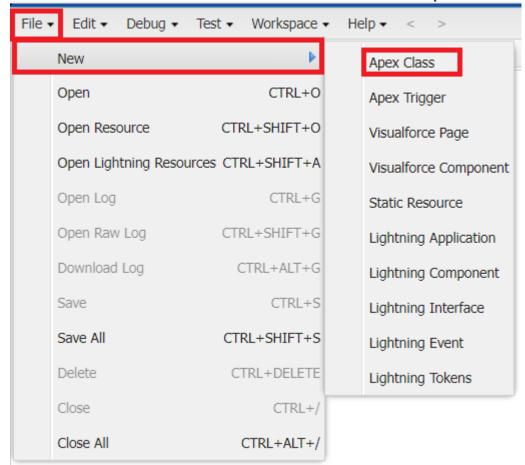
```
trigger AssignmentTrigger on Assignment

_______c(afterinsert){
    if(Trigger.IsAfter && Trigger.IsInsert){
        AssigningEmail.sendEmailmsg(Trigger.New);
    }
}

5. Save the code.(click on file-->Save)
```



- 2. Then we can see the Developer console .Click on the developer console and you will navigate to a new console window.
- 3. To create a new Apex Class follow the below steps: Click on the file --> New --> Apex Class.



4. Give the Apex Class name as "Completion Mail".



- 5. Click ok.
- 6. Now write the code logic here

```
RecordDeletions.apxc ScheduleClass.apxc CompletionMail.apxc
 Code Coverage: None • API Version: 59 •
 1 ▼ public class CompletionMail {
         public static void sendEmailMsg(List<WorkOrder c> workOrderList){
 2 *
              List<messaging.SingleEmailMessage> myVar = new List<messaging.SingleEmailMessage>();
 3
             for(WorkOrder_c con : workOrderList){
 4 *
                  if(con.Status c == 'Resolved'){
 5 ×
                      messaging.SingleEmailMessage mail = new messaging.SingleEmailMessage();
 6
                      List<String> sendTo = new List<String>();
 7
                      sendTo.add(con.Email c);
 8
                      mail.setToAddresses(sendTo);
 9
                      string subject = 'Status Updated';
 10
                      mail.setSubject(subject);
 11
                      string body = 'email body ';
 12
                      mail.setHTMLbody(body);
 13
                      myVar.add(mail);
 14
 15
 16
             Messaging.sendEmail(myvar);
 17
 18
 19
```

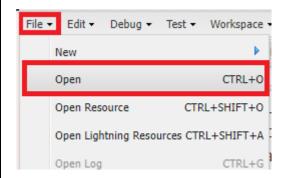
Source Code:

```
Public class Completion Mail {
  public static void sendEmailMsg(List<Work Order__c>Work
    OrderList){ List<messaging.SingleEmailMessage> myVar = new
List<messaging.SingleEmailMessage>();
    for(Work Order ccon:Work
    OrderList){
      if(con.Status c=='Resolved'){
        messaging.SingleEmailMessagemail=newmessaging.SingleEmailMessage();
        List<String> sendTo = new List<String>();
        sendTo.add(con.Email c);
        mail.setToAddresses(sendTo);
        stringsubject='StatusUpdated';
        mail.setSubject(subject);
        stringbody='emailbody';
        mail.setHTMLbody(body)
        ; myVar.add(mail);
    Messaging.sendEmail(myvar);
}
```

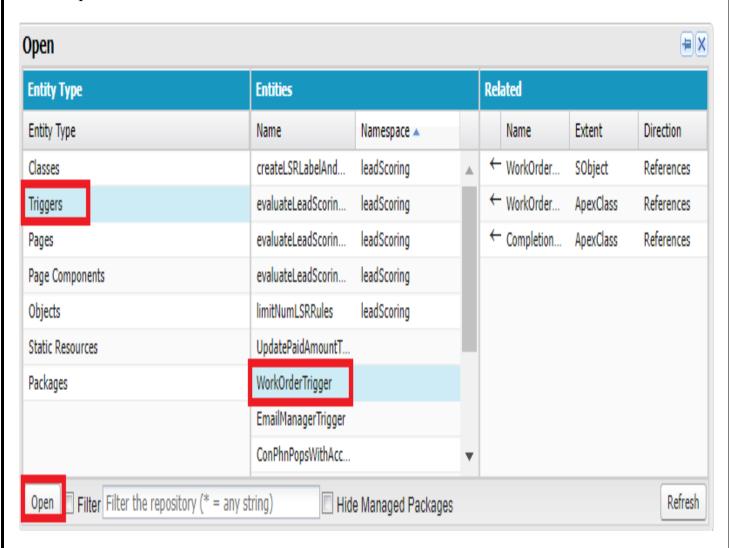
7. Savethecode.(clickonfile--> Save)

ACTIVITY6: Create an Apex Trigger

1.Click on the file --> Open.



2. A popup window opens click on Triggers ,then select "Work Order Trigger" and click on "Open"



3. Nowwritethecodelogic here.

```
RecordDeletions.apxc X ScheduleClass.apxc X CompletionMail.apxc X
                                                  WorkOrderTrigger.apxt 8
 Code Coverage: None - API Version: 59 -
 1 trigger WorkOrderTrigger on WorkOrder_c (after insert, after update) {
         if(Trigger.IsAfter && Trigger.IsInsert){
 2 *
              WorkOrderClass.workOrder(trigger.new);
         if(Trigger.IsAfter && Trigger.IsUpdate){
 5 4
              CompletionMail.sendEmailMsg(Trigger.New);
 6
```

```
Work Order Class .Work Order(trigger. new);
}
if(Trigger .Is After && Trigger .Is Update){ Completion Mail
    .send Email Msg (Trigger .New);
}
```

4. Save the code.(click on file-->Save)

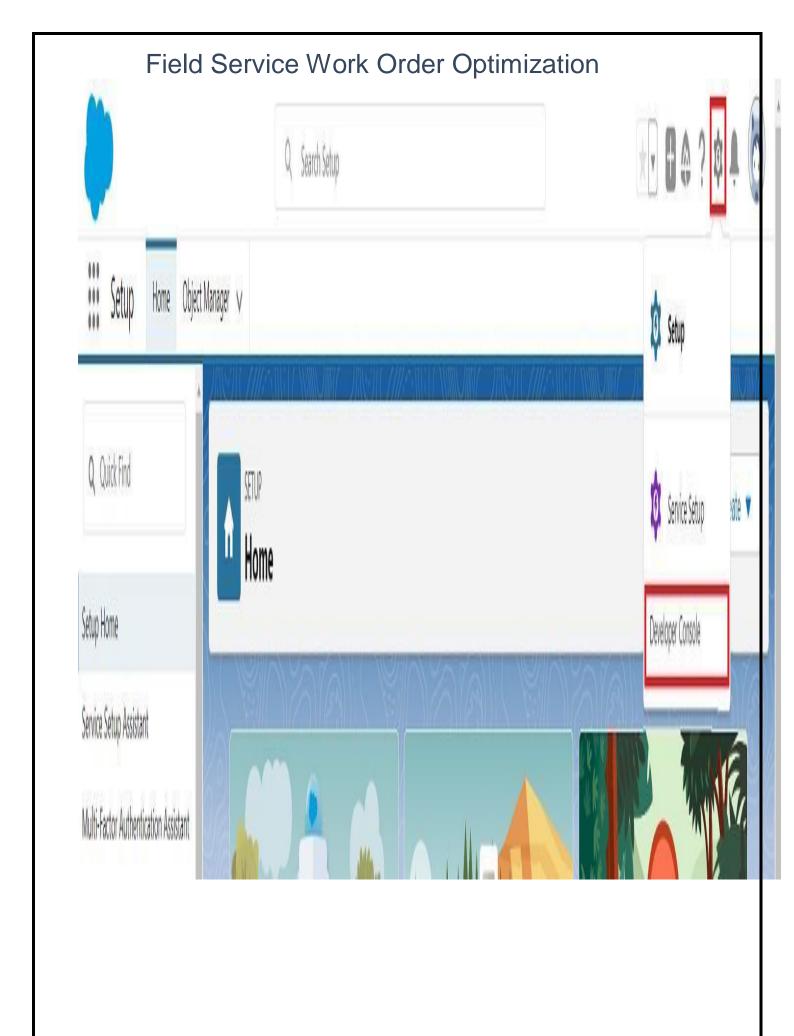
ACTIVITY7: Createan Asynchronous Apex Class

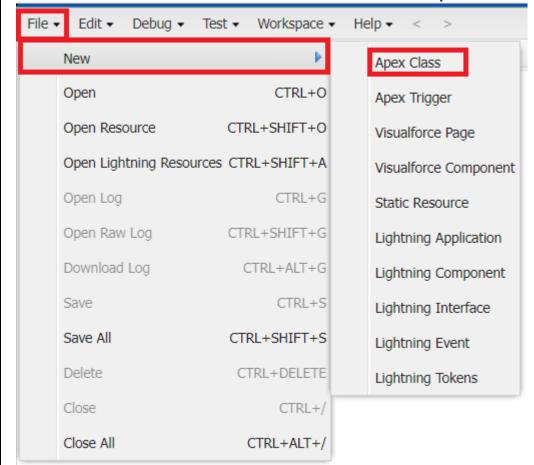
Create an Apex Class to Delete all the Work Order records which meets the following criteriaL

- 1. Completeddateshouldbemorethan30days.
- 2. Status should be 'Resolved'.

Create an Apex Class

1. Go to Setup -->Click on the gear icon-->Select Developer Console.





4. Give the Apex Class name as "Record Deletion".



- 5. Click ok.
- 6. Now write the code log is here

```
File • Edit • Debug • Test • Workspace • Help • < >
RecordDeletions.apxc
 Code Coverage: None • API Version: 59 •
 1 • public class RecordDeletions Implements Database.Batchable<Sobject>{
         public Database.QueryLocator start(Database.BatchableContext bc) {
              string query = 'SELECT Id, Name, WorkOrder_ID_c, Technician_ID_c, Assignment_Date_c, Completion_Date_c FROM Assignment_c WHERE Completion_Date_c = LAST_N_DAYS:30';
 4
              return database.GetQueryLocator(query);
 5
 6
         public void execute(Database.BatchableContext bc, List<Assignment_c> query){
 7 🔻
 8 +
             if(!Query.IsEmpty()){
                 Delete Query;
 9
 10
 11
         public void finish(Database.BatchableContext bc)[
 12
 13
 14 }
```

Source Code:

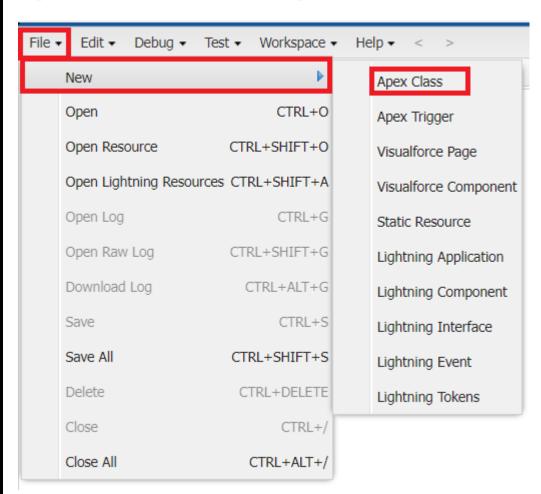
7. Save the code.(click on file-->Save)

ACTIVITY8: Createan Apex Schedule Class

1. Go to Setup-->Click on the gear icon-->Select Developer Console.



- 2. Then we can see the Developer console. Click on the developer console and you will navigate to a new console window.
- 3.To create a new Apex Class follow the below steps: Click on the file --> New --> Apex Class.



4. Give the Apex Class name as "Schedule Class".



- 5. Click ok.
- 6.Now write the code logi chere



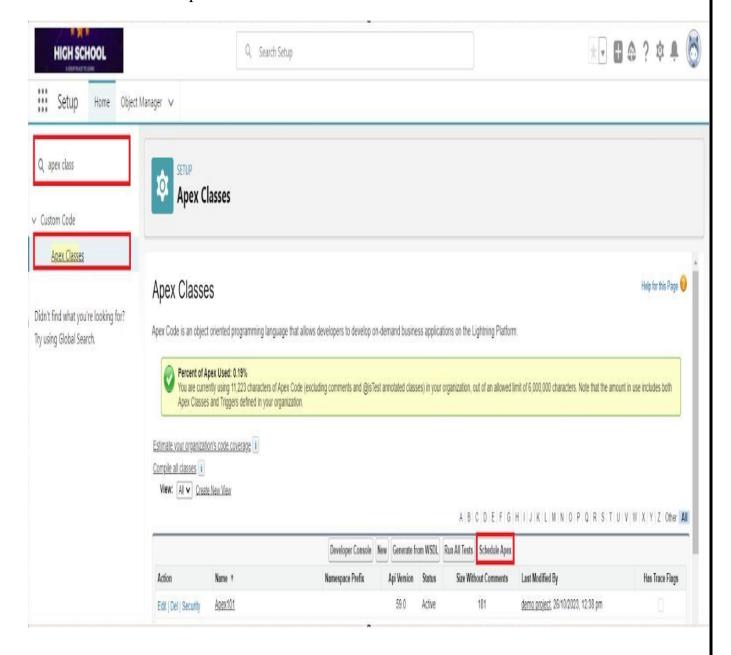
Source Code:

```
Global class Schedule Class implements Schedulable {
    global void execute(SchedulableContext SC) {
        RecordDeletionsdelrec=newRecordDeletions();
        database.executeBatch(delrec, 200);
    }
```

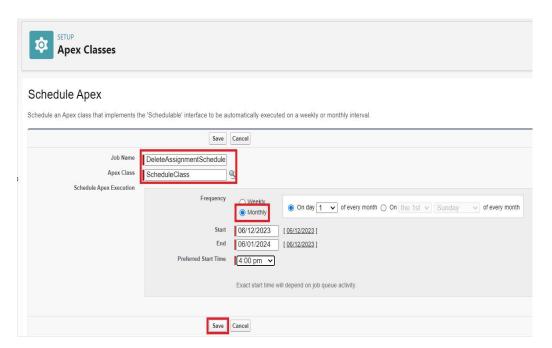
Field Service Work Order Optimization
7. Save the code.(click on file? Save)
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ACTIVITY9: Create a Schedule Apex

- 1. Schedule the Apex class:
- 2. From the Setup page search for "Apex Classes" in quick search.
- 3. Click on "Schedule Apex" as shown below.



- 4. Click on Schedule Apex and enter the Job name.
- a. Job Name: Delete Assignment Schedule
- b. ApexClass: Schedule Class(fromclickingonlookup icon)
- c. Frequency: Monthly
 - d. Preferred StartTime : Selectanytime



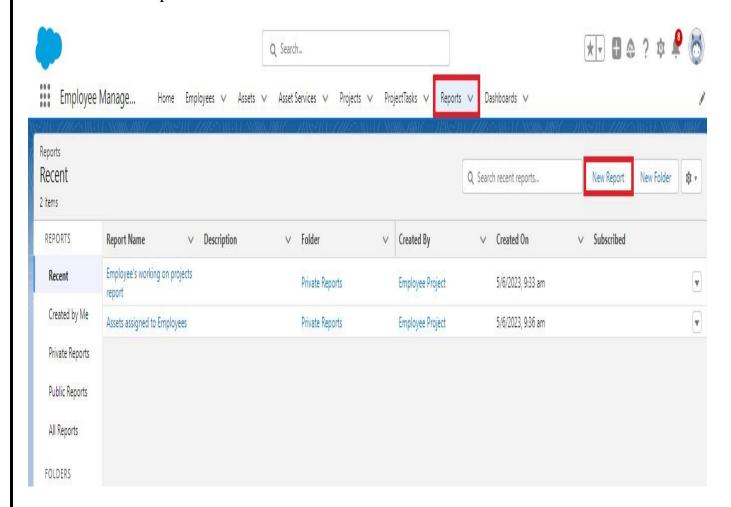
5. ClickSave.

Reports&Dashboards

Sales force Reports and Dashboard sare powerful tools that empower users to visualize and analyze data within the Sales force platform. They play a crucial role in providing in sights, monitoring performance, and making informed business decisions.

ACTIVITY1:Report

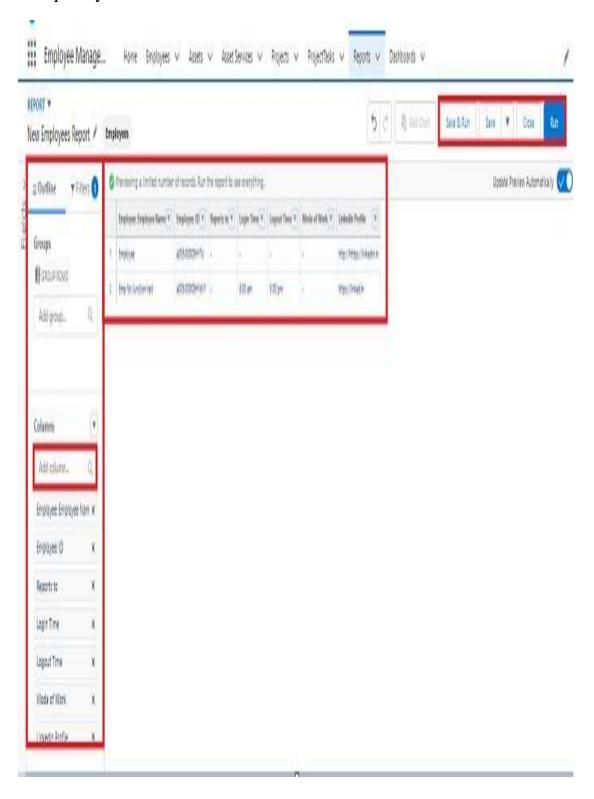
- 1. Go to the app-->click on the reports tab
- 2. Click New Report.



3. Select report type from category or from report type panal or from search panel -->click on start report.

Field Service Work Order Optimization Create Report Category Select a Report Type X Details Recently Used Q assignment 0 Assignments with WorkOrder ID Standard Report Type All Report Type Name Category Accounts & Contacts Start Report Assignments Standard Assignments with WorkOrder ID Standard Opportunities (i) Details **≔** Fields (32) . Assignments with Technician ID Standard Customer Support Reports Created By You Leads No Reports Yet Campaigns **Created By Others** Activities No Reports Yet Contracts and Orders Objects Used in Report Type Price Books, Products and Owner Assets MarkOrdan Administrative Reports

- 4. Customize your report
 - Add fields from left pane as shown below
 - Grouped by Work Order ID



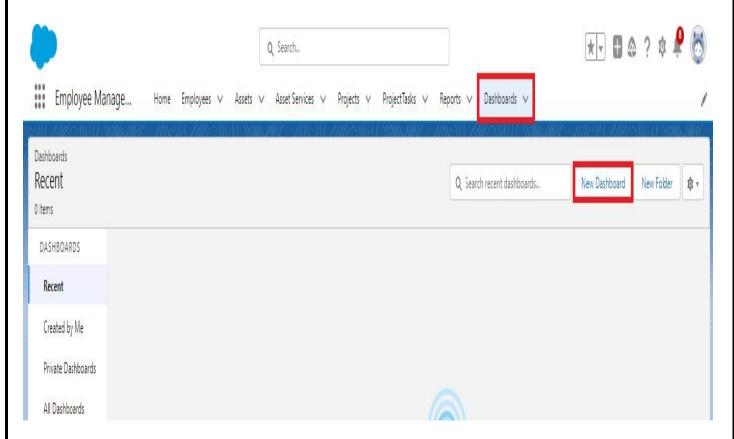
5. Save or run it.

Note: Reports may get varied from the above pictures as the data might be different.

ACTIVITY2:CreateReports
 Create are port with report type: "Work Orders Status Reports". Create are port with report type: "Technician and Assignment Details Reports".

ACTIVITY3: Dashboard

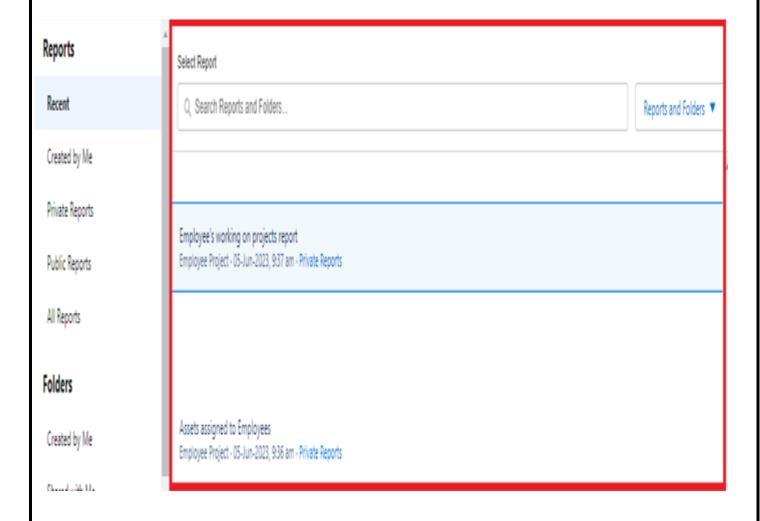
1.Gototheapp -->click on the Dashboards tabs.



2. Give a Name and click on Create.

Field Service Work Order Optimization New Dashboard * Name Dashboard 1 Description Folder Private Dashboards Select Folder Create Cancel 3. Select add component. Home Employees V Assets V Asset Services V Projects V Project Tasks V Reports V Dashboards V Dashboard 1 Page | 74

4Select a Report which we have created in the previous activities and clickon select.



6. Click Add then click on Save and then click on Done.

ACTIVITY4:Create Dashboards

Create another Dashboard as we discussed in activity3 which Work Order status in a vertical bar graph. Shows the details of completed

Field Service Work Order Optimization Github Link:	
https://github.com/vanajapujari5/field-service-workorder-optimization LTVIP2025TMID29686	
Demo Video Link	
https://drive.google.com/file/d/1111zB1sKgvyhV35loPWtXPOP3l21xXx8/view?usp=drivesdk	
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