Educational Organisation Using ServiceNow

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Problem Statement:

In many educational organizations, student details, admissions, and progress are managed manually or with separate tools. This leads to mistakes, delays, and difficulty in tracking records.

There is a need for a single system where admissions, student details, and results can be managed easily. Using **ServiceNow**, we can create an online platform to:

- Handle student admissions step by step.
- Store student and parent details in one place.
- Automatically generate admission numbers.
- Calculate marks, percentages, and results without manual work.
- Make the whole process faster, accurate, and easier for staff.

Objective:

- To create a digital platform for managing admissions and student details using ServiceNow.
- To automate the generation of admission numbers for easy tracking.
- To design forms for storing student and parent information in a structured way.
- To build workflows for the admission process (New → In Progress → Joined → Rejected → Closed → Cancelled).
- To create a system that automatically calculates marks, total, percentage, and result status.
- To make the process faster, error-free, and easy to use for educational organizations.

Skills:

- ServiceNow Platform
- Update Sets
- Table Creation
- Form Layout & Design
- Number Maintenance
- Process Flow Design
- Client Scripts (JavaScript)
- Automation Skills
- Problem-Solving

TASK INITIATION

Milestone 1 : Setting Up ServiceNow Instance

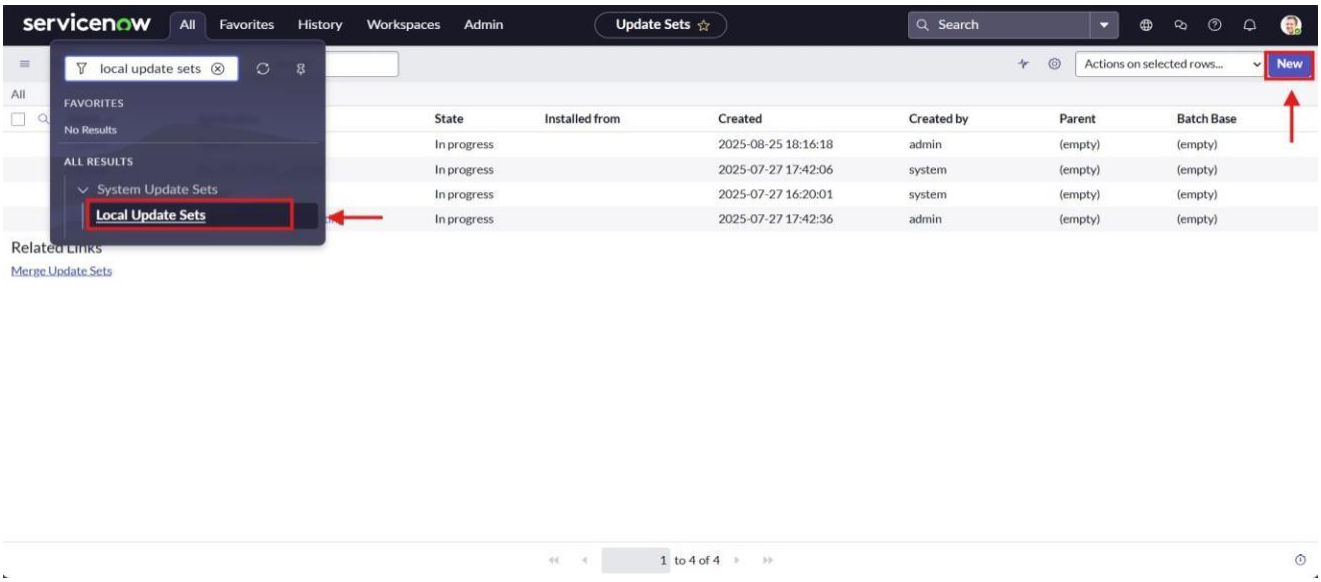
Activity 1: Create Instance

1. Go to developer.servicenow.com.
2. Sign up for a free developer account.
3. After logging in, click **Personal Developer Instance**.
4. Click **Request Instance** to create your own ServiceNow space.
5. Fill in the form and submit it.
6. You will get an email with your instance link, username, and password.
7. Log in with those details.
8. Now your ServiceNow instance is ready to use.

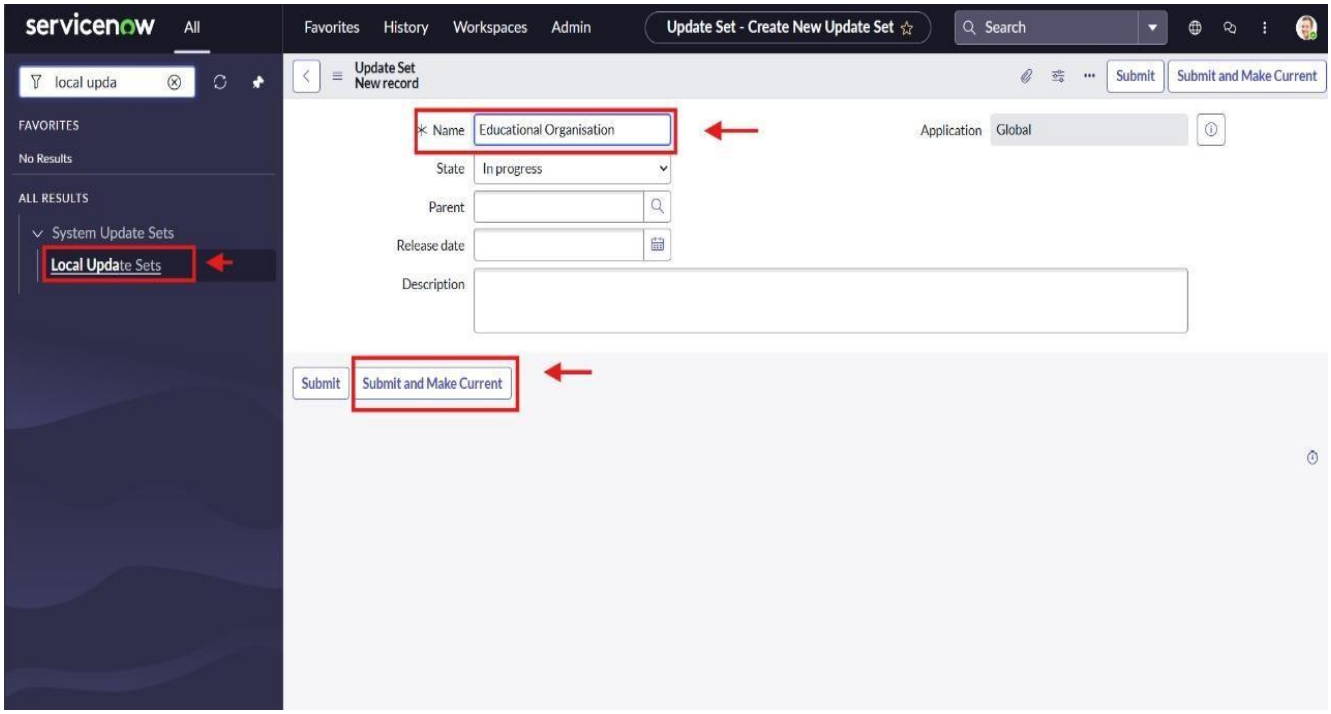
Milestone 2 : Creation of New Update Set

Activity 1: Create Update Set

1. Go to **All** in ServiceNow.
2. In the filter search box, type **Local Update Sets** and click on it.
3. Click on **New**.



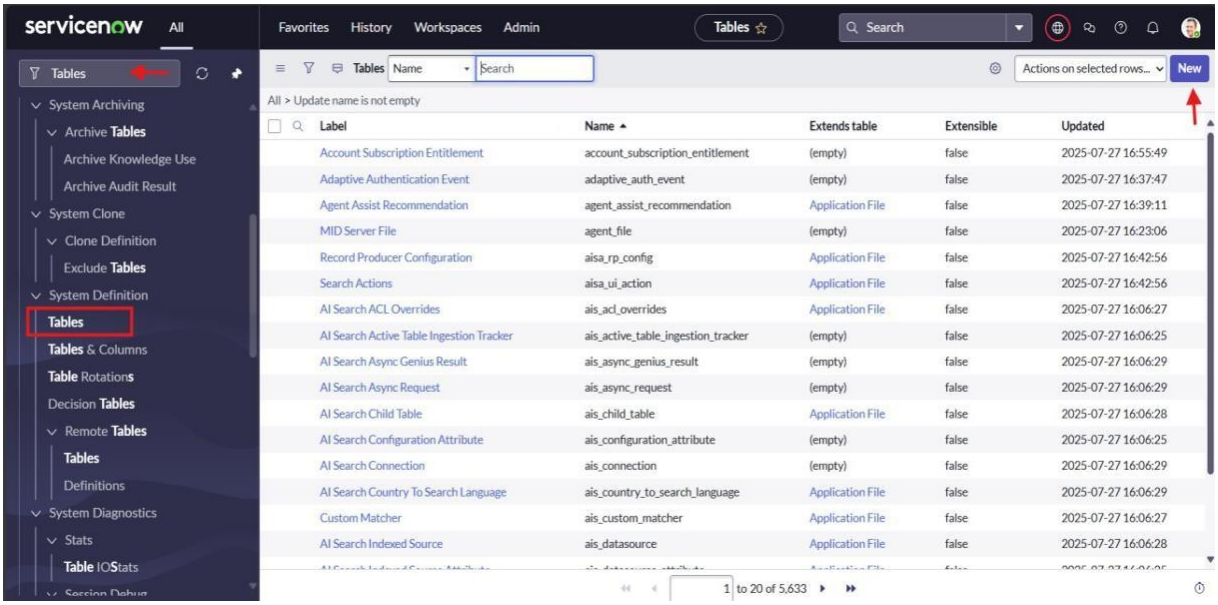
4. Enter the details:
   - **Name**: **Educational Organisation**
5. Click on **Submit and Make Current**.



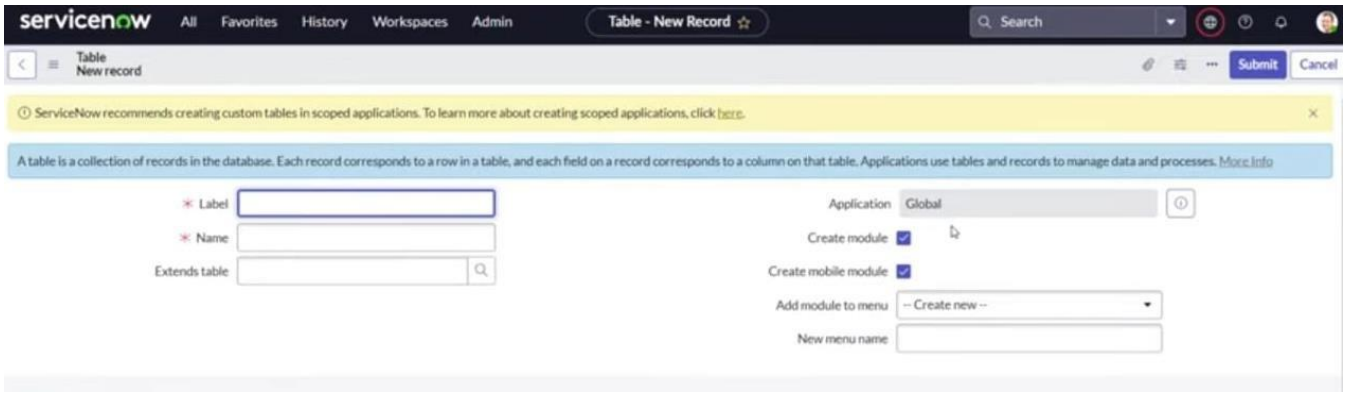
Milestone 3 : Creation of Table

Activity 1: Create Table

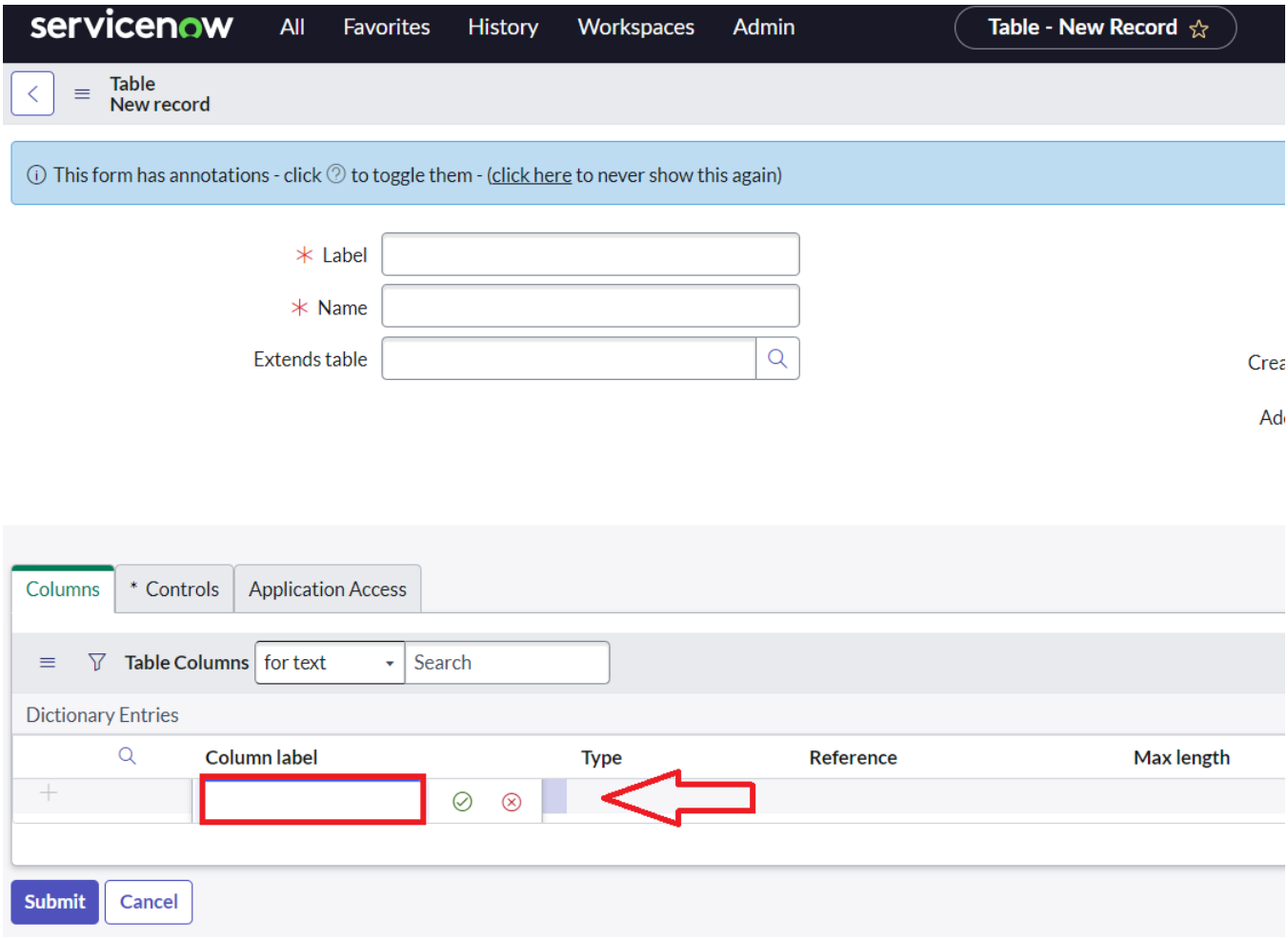
1. In ServiceNow, go to **All**.
2. In the filter search box, type **Tables**.
3. Click on **Tables** under *System Definition*.
4. Click on **New.**



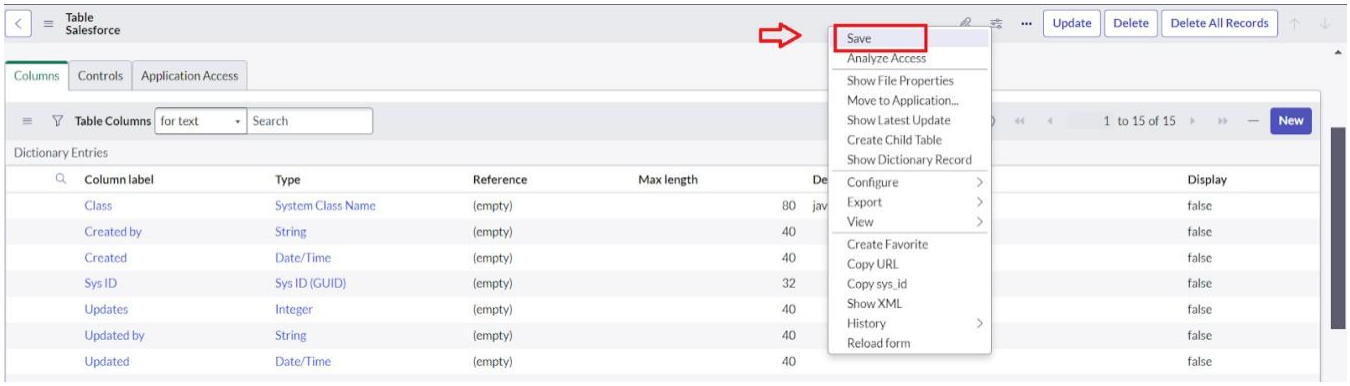
5. Enter the **Label(Anything you want): Salesforce** >> Click on Name it will Automatically generate Api name.
6. Go to the header, right-click, and select **Save**.



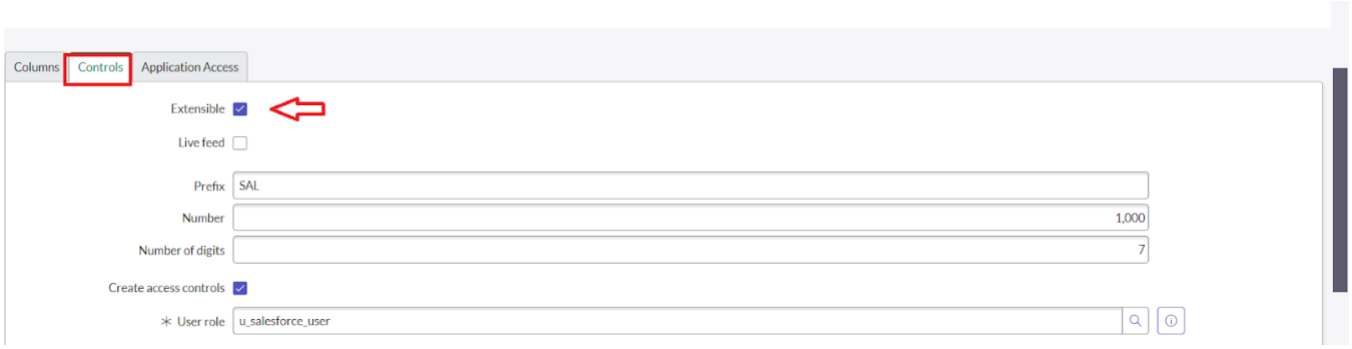
7. Create columns as given below , Double Click on Column label and Enter the Column labels and click on the tick mark >> Give Type as given .



8. For **"Admin Number"** Give Display as True and right click on the toggle bar on top >> save.

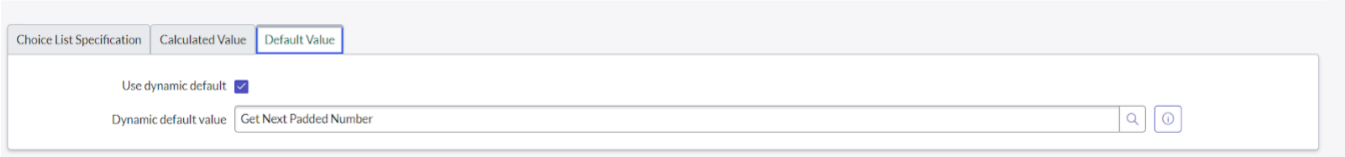


9. Click on controls >> Enable Extensible.

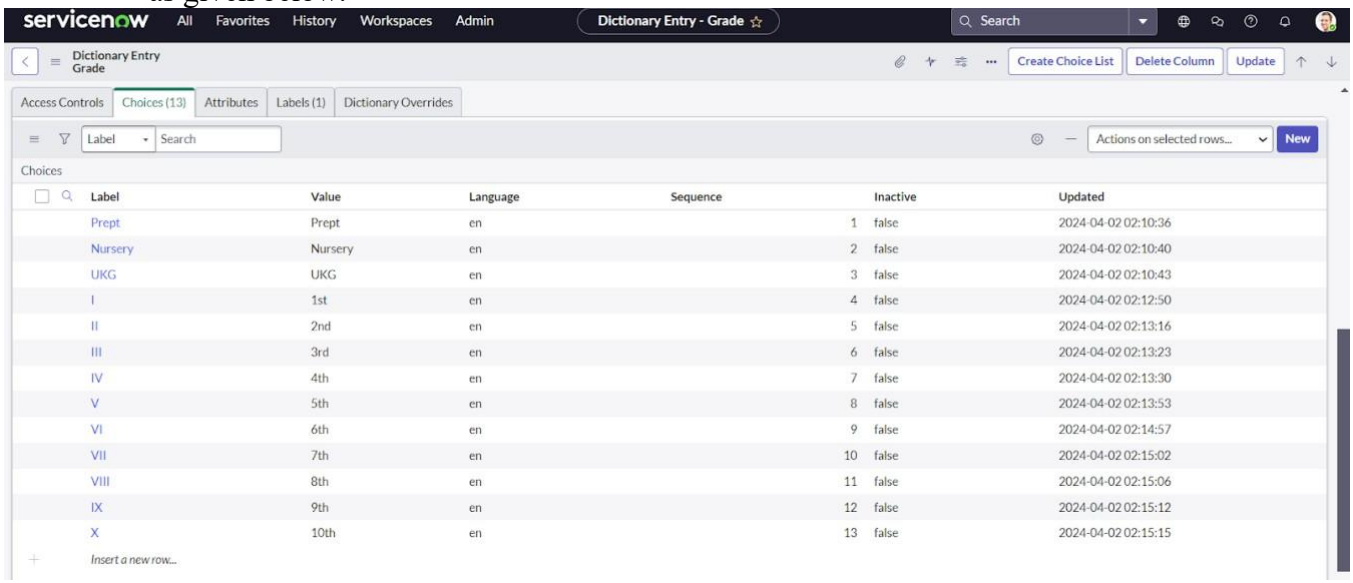


10. Click on **"Admin Number"** column, In Related Links Click on Advanced View

11. Default View (Enable Use dynamic default)
12. select Get Next Padded Number in Dynamic default value.
13. **Update**



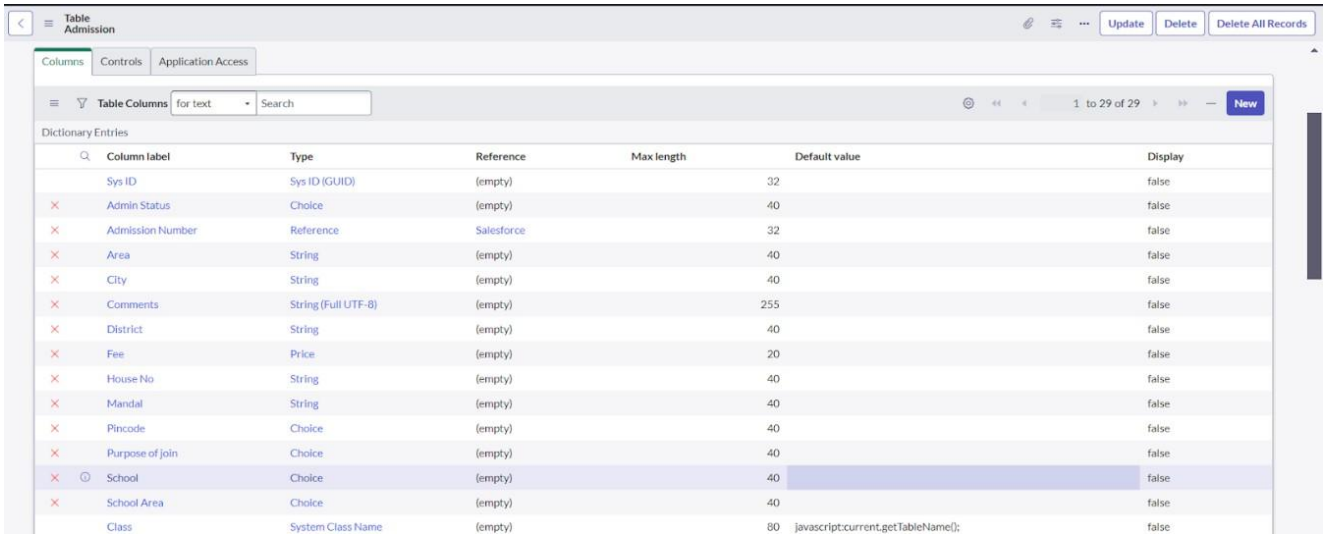
14. Click on "Grade" Column >> Click on Choices and give Label,Value and Sequence as given below.



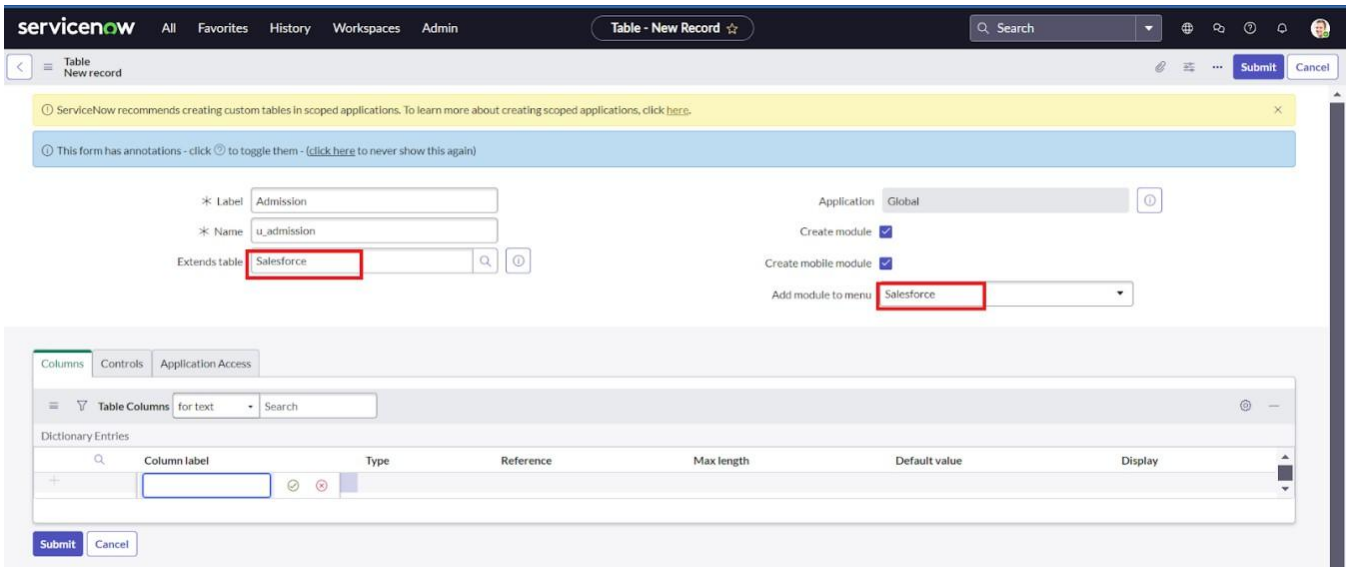
Label	Value	Language	Sequence	Inactive	Updated
Prept	Prept	en	1	false	2024-04-02 02:10:36
Nursery	Nursery	en	2	false	2024-04-02 02:10:40
UKG	UKG	en	3	false	2024-04-02 02:10:43
I	1st	en	4	false	2024-04-02 02:12:50
II	2nd	en	5	false	2024-04-02 02:13:16
III	3rd	en	6	false	2024-04-02 02:13:23
IV	4th	en	7	false	2024-04-02 02:13:30
V	5th	en	8	false	2024-04-02 02:13:53
VI	6th	en	9	false	2024-04-02 02:14:57
VII	7th	en	10	false	2024-04-02 02:15:02
VIII	8th	en	11	false	2024-04-02 02:15:06
IX	9th	en	12	false	2024-04-02 02:15:12
X	10th	en	13	false	2024-04-02 02:15:15
Insert a new row...					

Activity 2: Create Admission Table

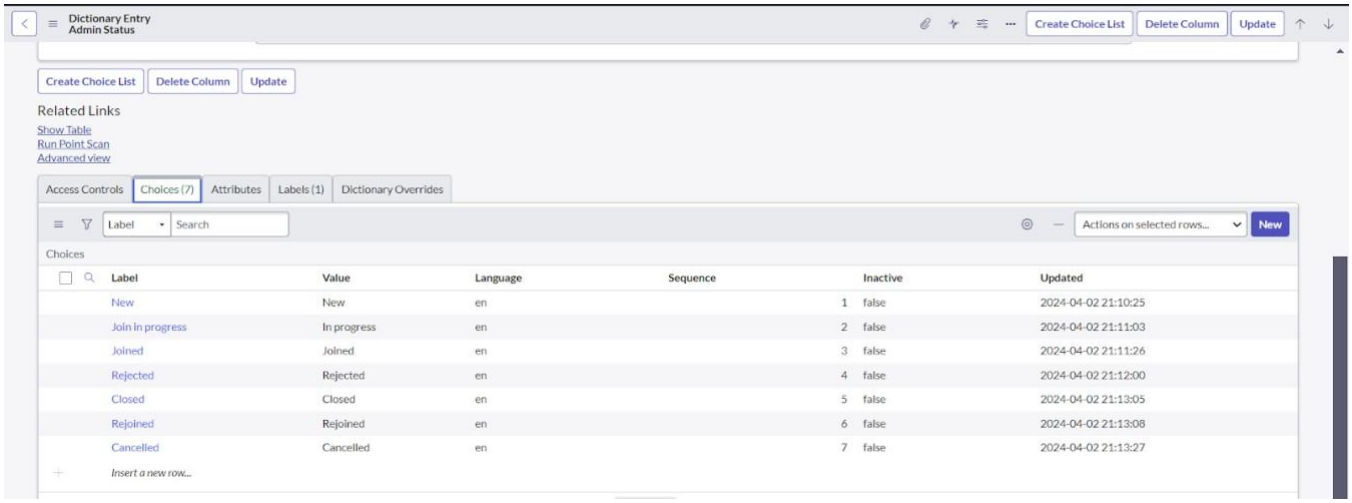
1. Create an **Admission Table** with Columns given.
2. Select Extends Table >> Salesforce and also Select Add module to menu >> Salesforce.
3. Create Fields as shown



Column label	Type	Reference	Max length	Default value	Display
Sys ID	Sys ID (GUID)	(empty)	32		false
Admin Status	Choice	(empty)	40		false
Admission Number	Reference	Salesforce	32		false
Area	String	(empty)	40		false
City	String	(empty)	40		false
Comments	String (Full UTF-8)	(empty)	255		false
District	String	(empty)	40		false
Fee	Price	(empty)	20		false
House No	String	(empty)	40		false
Mandal	String	(empty)	40		false
Pincode	Choice	(empty)	40		false
Purpose of join	Choice	(empty)	40		false
School	Choice	(empty)	40		false
School Area	Choice	(empty)	40		false
Class	System Class Name	(empty)	80	javascript:current.getTableName();	false

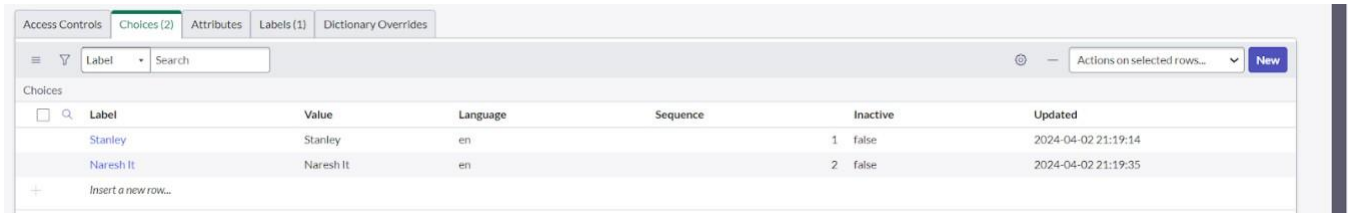


4. Create choice for **Admin Status** as:

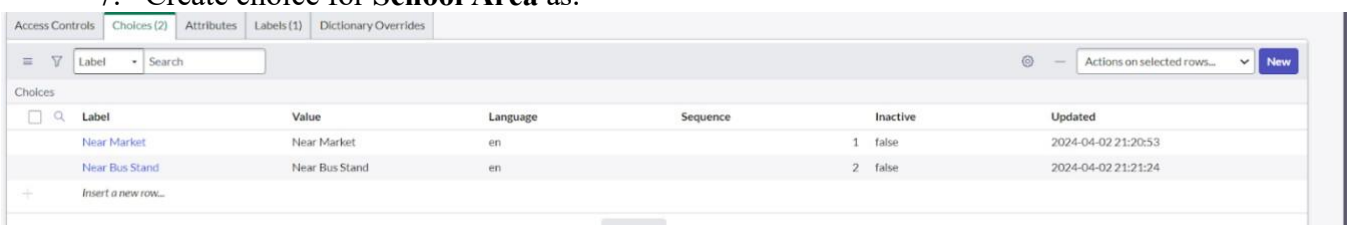


5. Create choice for **Pincode** as:

6. Create choice for **School** as:



7. Create choice for **School Area** as:



Activity 3: Create Student Progress Table

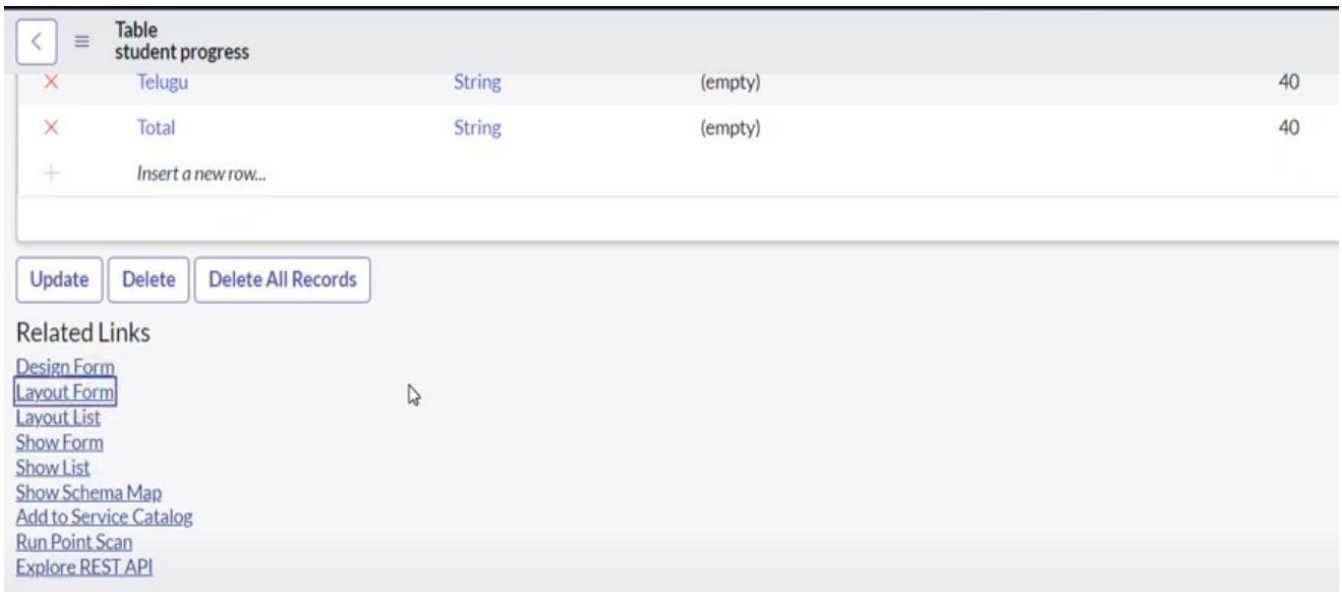
1. Create a **Student Progress Table** with Columns given.
2. Select Add module to menu >> **Salesforce.**
3. Create Fields as shown:

×	Admission Number	Reference	Salesforce	32	false
×	English	String	(empty)	40	false
×	Hindi	String	(empty)	40	false
×	Maths	String	(empty)	40	false
×	Percentage	String	(empty)	40	false
×	Result	String	(empty)	40	false
×	Science	String	(empty)	40	false
×	Social	String	(empty)	40	false
×	Telugu	String	(empty)	40	false
×	Total	String	(empty)	40	false
+	*Insert a new row...*				

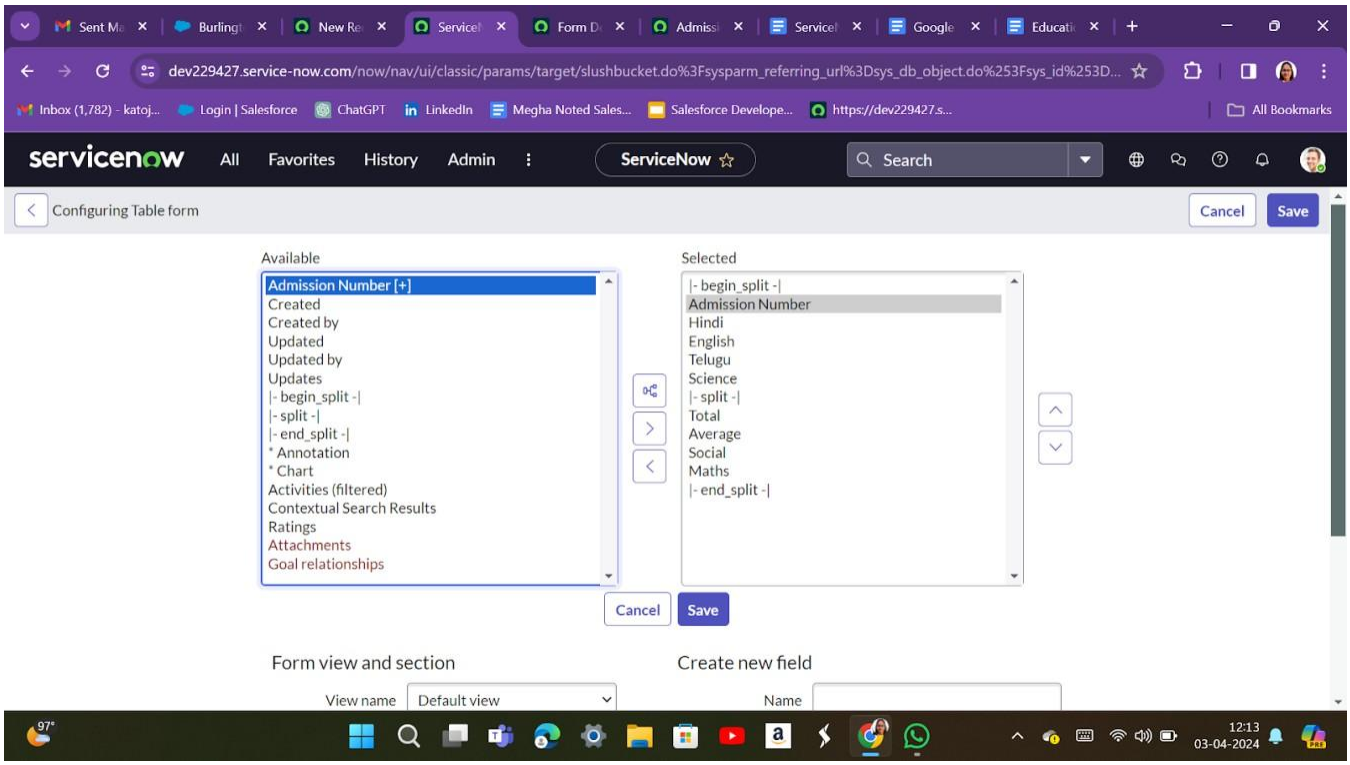
Milestone 4 : Form Layout

Configuring Table form for Student Progress Table

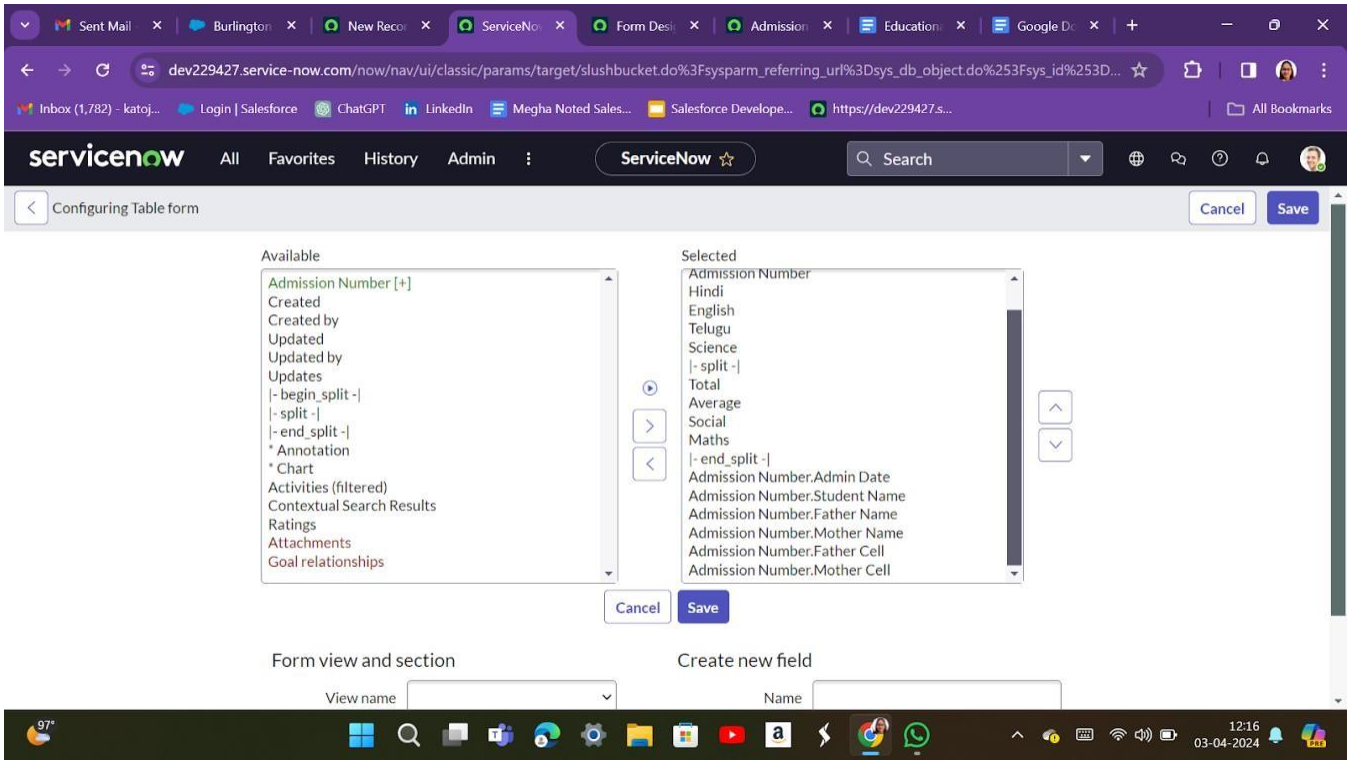
1. In the **Student Progress Table Page** , Click on Layout form .



2. Click on **Admission Number [+] .**



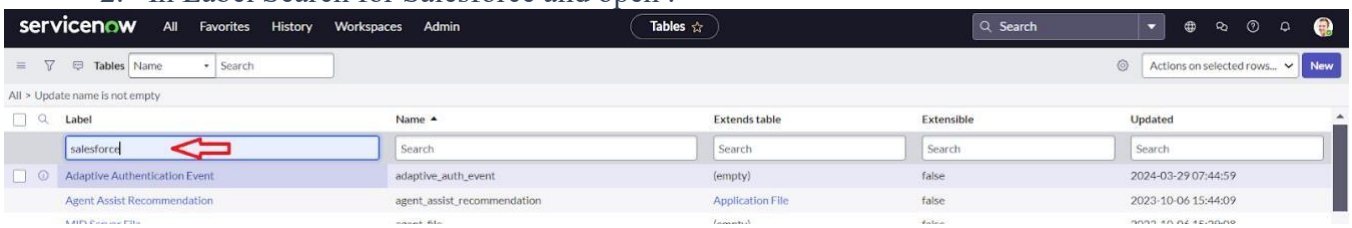
3. Select below **Admission Number fields in Available side and send it** to selected side as below >> **save**.



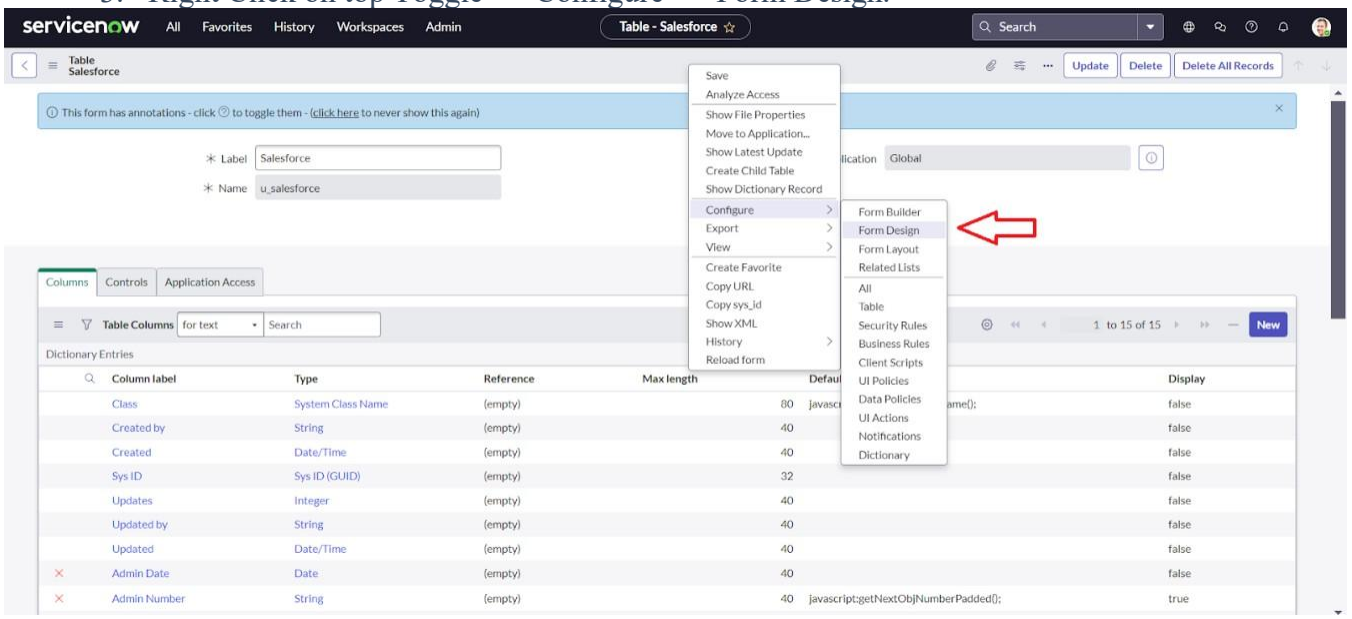
Milestone 5 : Form Design

Activity 1: Creating Form Design for Salesforce Table

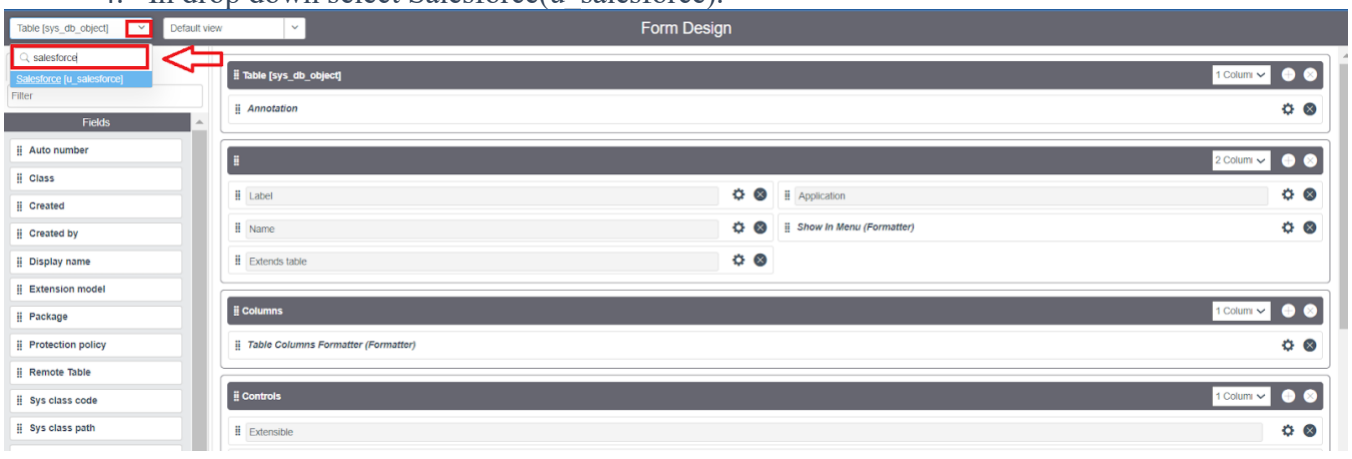
1. All >> System Definition >> Tables .
2. In Label Search for Salesforce and open .



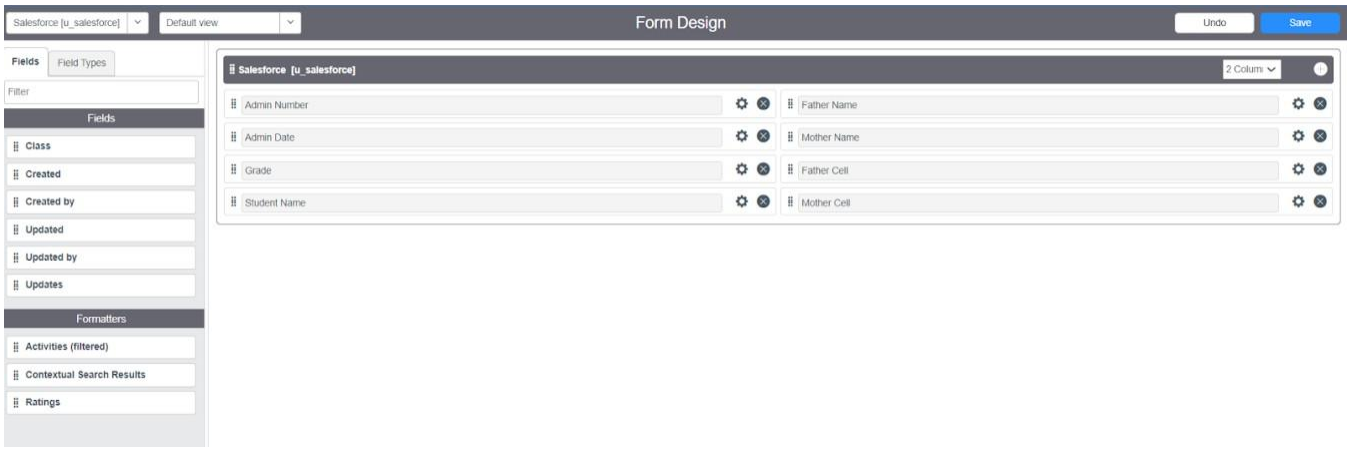
3. Right Click on top Toggle >> Configure >> Form Design.



4. In drop down select Salesforce(u_salesforce).



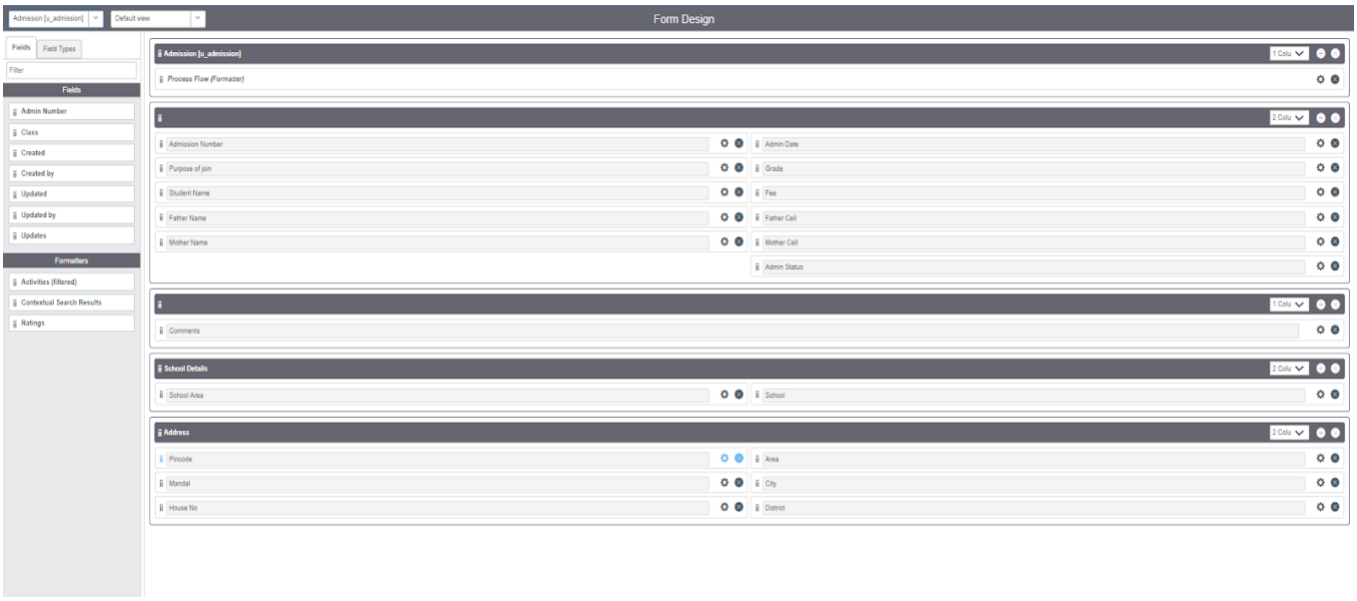
5. Drag and drop the fields to the left side as below.



6. **Save.**

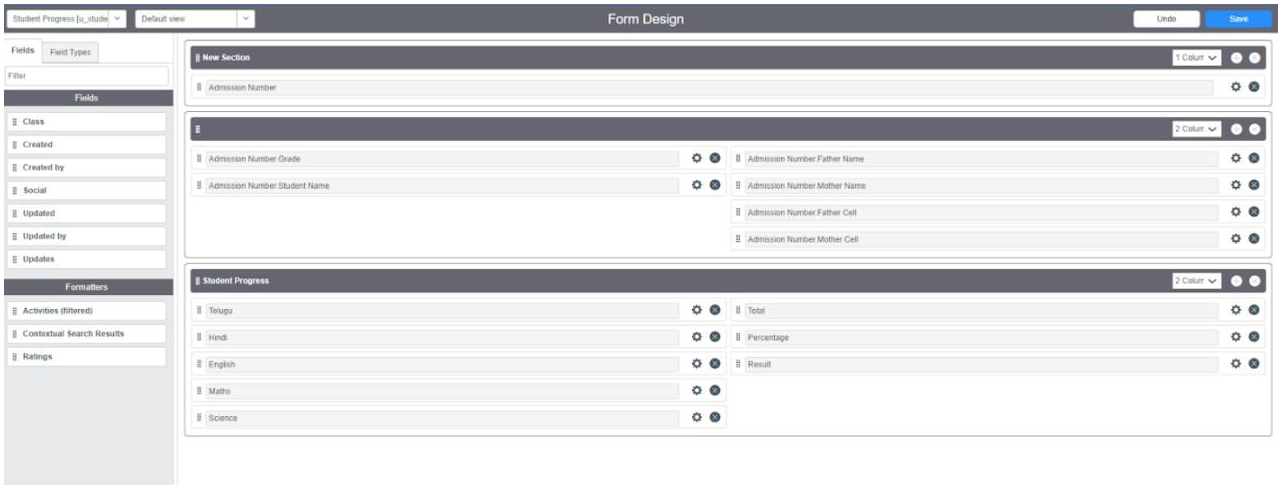
Activity 2: Creating Form Design for Admission Table

Follow the same steps as Activity1,Configure the fields as below and Save.



Activity 3: Creating Form Design for Student progress Table

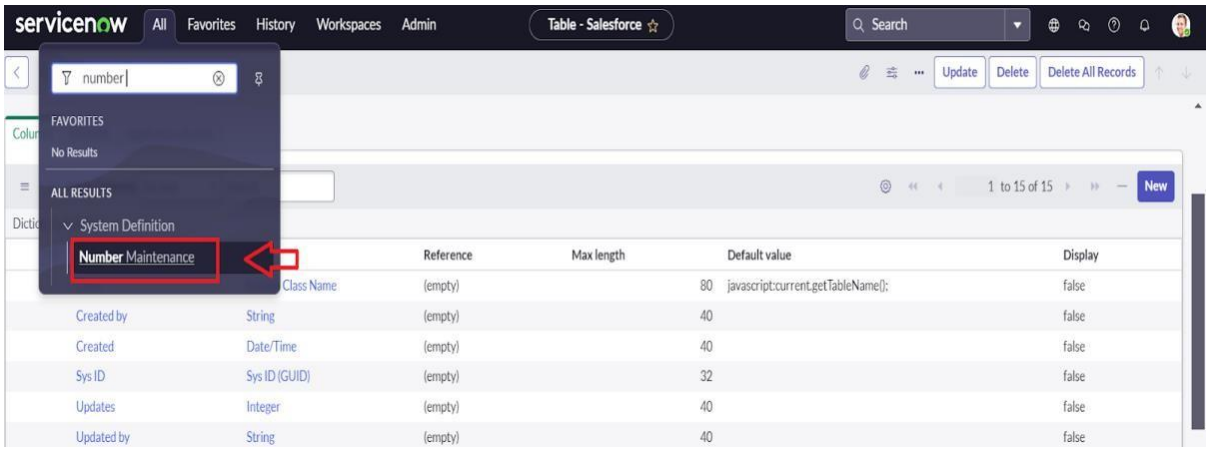
Follow the same steps as Activity1,Configure the fields as below and Save.



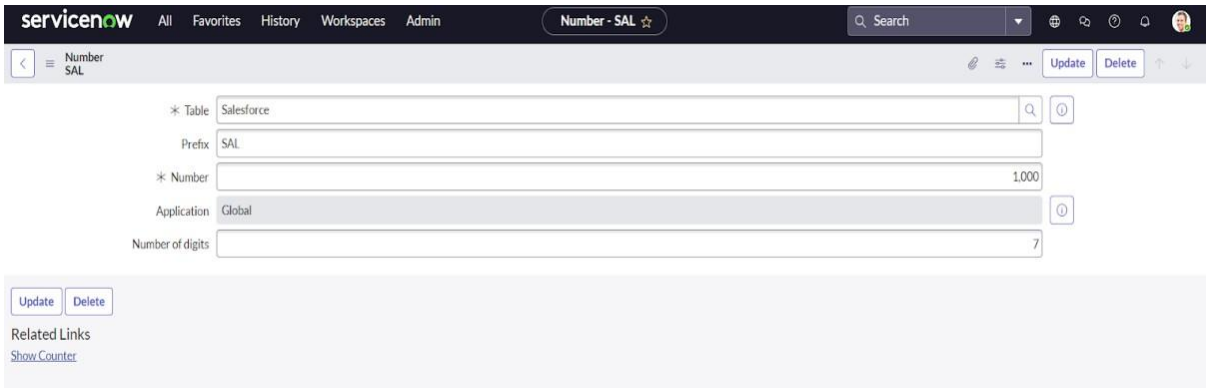
Milestone 6 : Number Maintenance

Activity 1: Creating Number Maintenance for Admin Number

- All >> Number Maintenance >> New



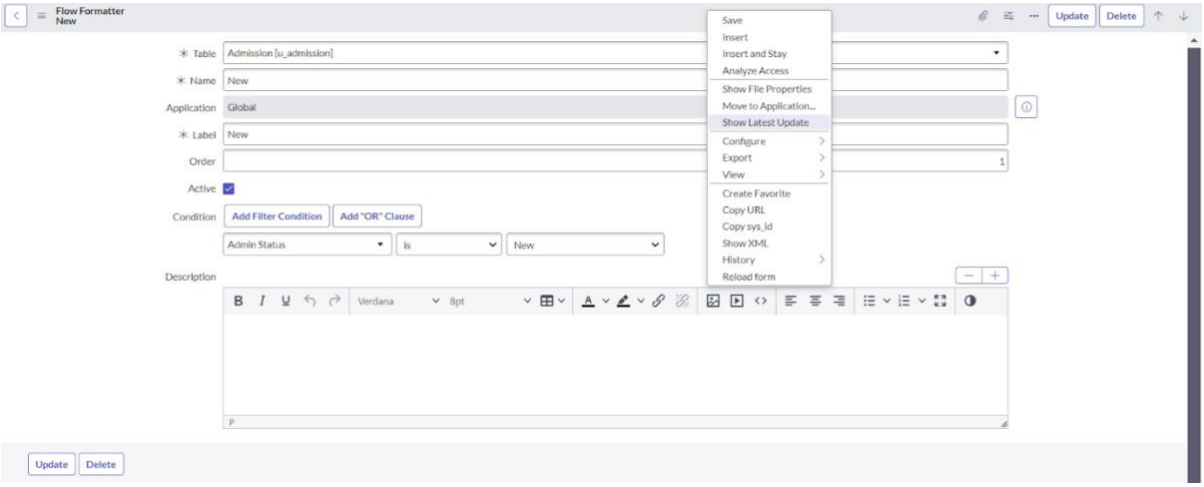
- Fill the details >> Submit.



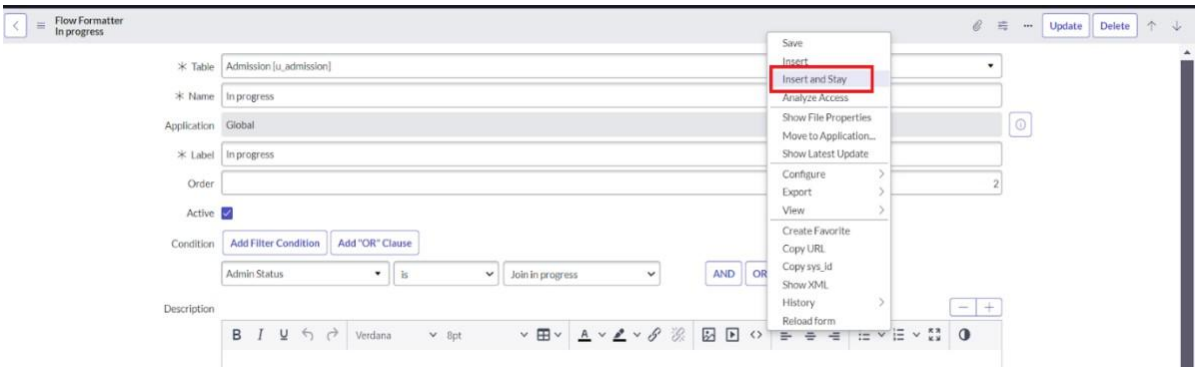
Milestone 7 : Process Flow

Activity 1: Creating Process Flow for Admission Table

- All >> Process Flow>> New.
- Fill the Details as given Below



- Right Click on toggle and click on the save .
- Replace the Name and Label as below and click on Insert on stay.

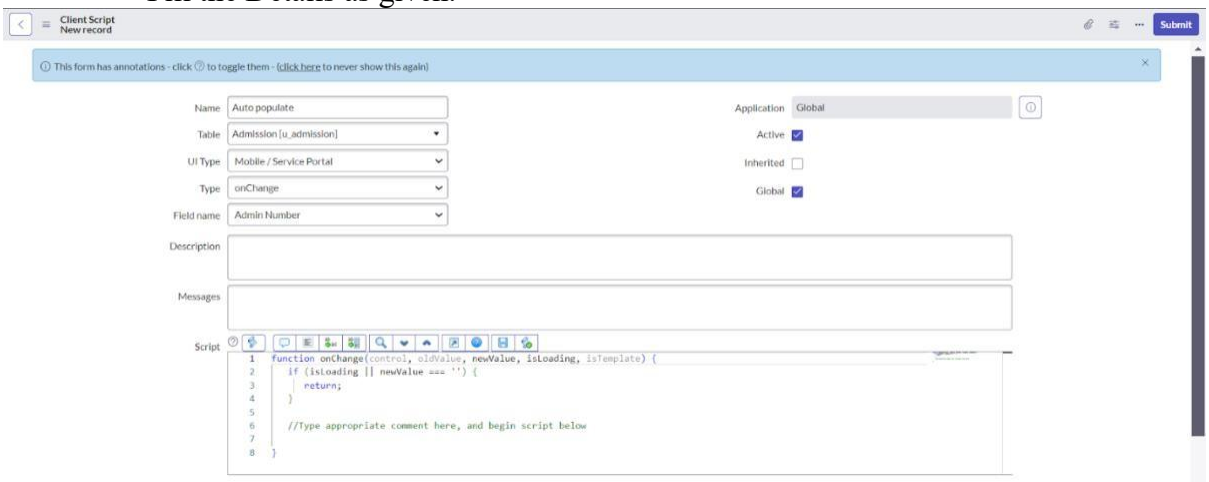


- Replace the Name and Label in order and click on Insert on stay.
  Joined >> Rejected >> Rejoined >> Closed >> Cancelled.
- Order should be New >> InProgress >> Joined >> Rejected >> Rejoined >> Closed >> Cancelled.

Milestone 8: Client Script

Activity 1: Creating “Auto populate” Client Scripts for Admission Table

- All >> Client Scripts >> New.
- Fill the Details as given.

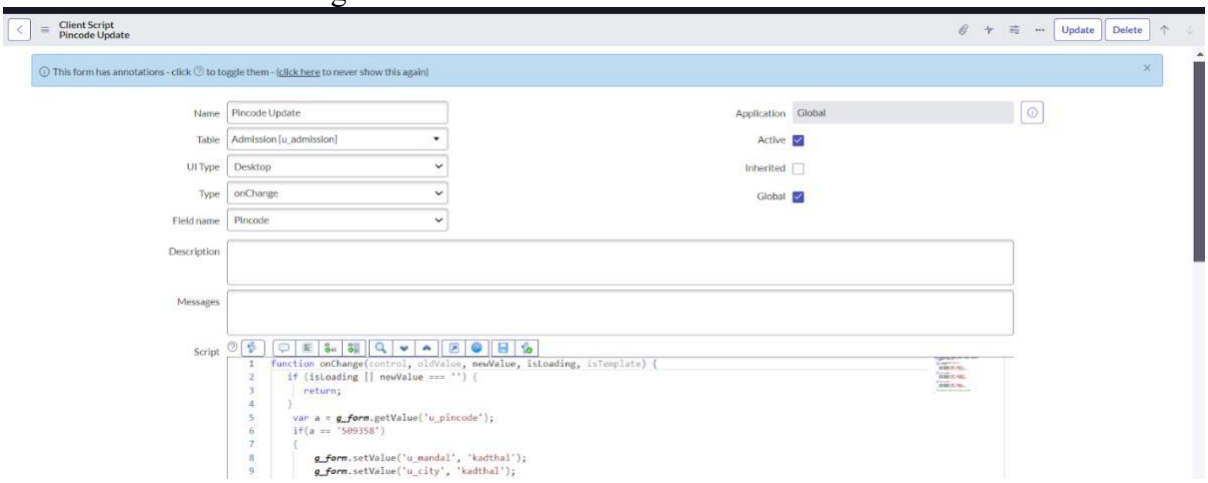


- Write the Code as below, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
if (isLoading || newValue === '') {
    return;
  }

  //Type appropriate comment here, and begin script below
  var a = g_form.getReference('u_admission_number');
  g_form.setValue('u_admin_date',a.u_admin_date);
  g_form.setValue('u_grade',a.u_grade);
  g_form.setValue('u_student_name',a.u_student_name);
  g_form.setValue('u_father_name',a.u_father_name);
  g_form.setValue('u_mother_name',a.u_mother_name);
  g_form.setValue('u_father_cell',a.u_father_cell);
  g_form.setValue('u_mother_cell',a.u_mother_cell);

  g_form.setDisabled('u_admin_date',a.u_admin_date);
  g_form.setDisabled('u_grade',a.u_grade);
  g_form.setDisabled('u_student_name',a.u_student_name);
  g_form.setDisabled('u_father_name',a.u_father_name);
  g_form.setDisabled('u_mother_name',a.u_mother_name);
  g_form.setDisabled('u_father_cell',a.u_father_cell);
  g_form.setDisabled('u_mother_cell',a.u_mother_cell);
}
```

Activity 2: Creating “Pincode Update” Client Scripts for Admission Table

- Fill the Details as given.

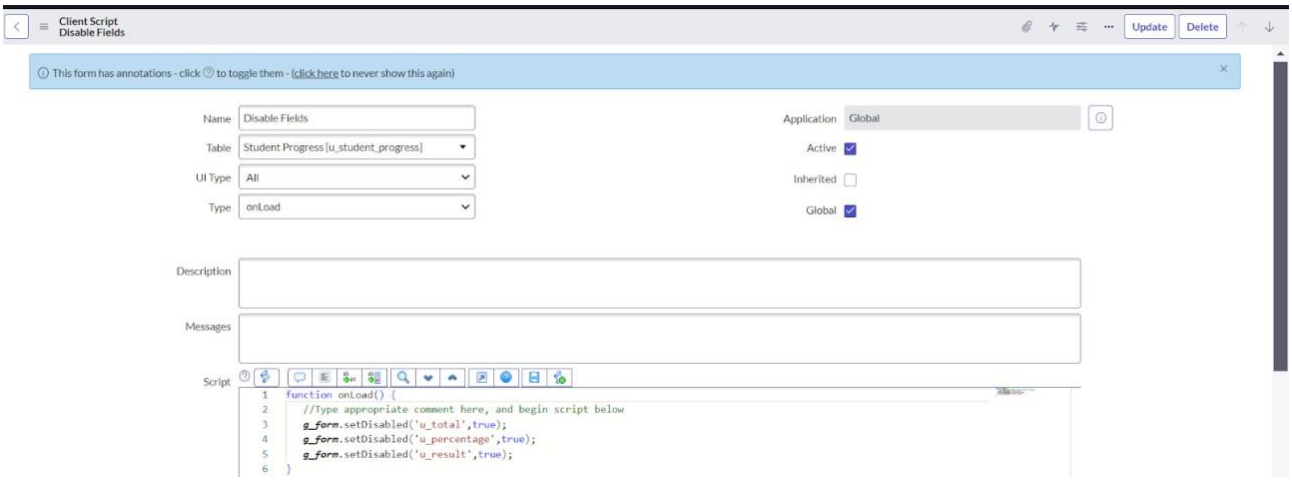


- Write the Code as below, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
  if (isLoading || newValue === '') {
    return;
  }
   var a = g_form.getValue('u_pincode');
if(a == '509358')
{
g_form.setValue('u_mandal', 'kadthal');
g_form.setValue('u_city', 'kadthal');
g_form.setValue('u_district', 'RangaReddy');

}
else if(a == '500081')
{
g_form.setValue('u_mandal', 'karmanghat');
g_form.setValue('u_city', 'karmanghat');
g_form.setValue('u_district', 'RangaReddy');

}
else if(a == '500079')
{
g_form.setValue('u_mandal', 'Abids');
g_form.setValue('u_city', 'AsifNagar');
g_form.setValue('u_district', 'Hyderabad');
}

  //Type appropriate comment here, and begin script below

}
```

Activity 3: Creating “Disable Fields” Client Scripts for Student progress Table

- Fill the Details as given.

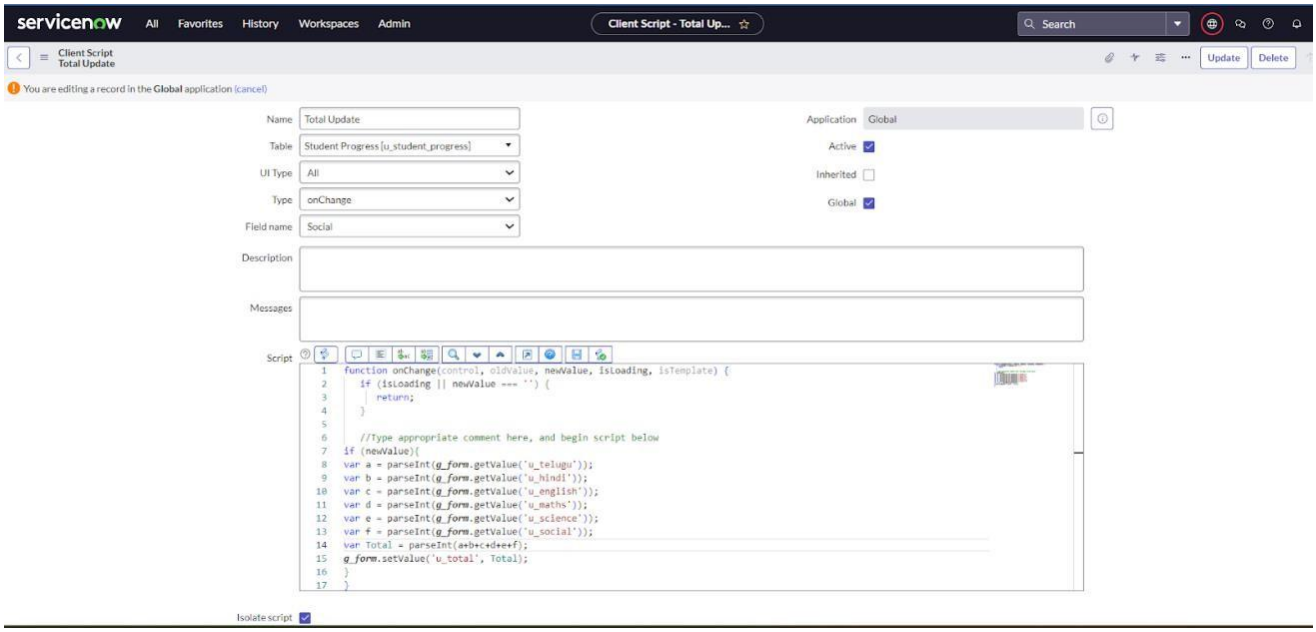


- Write the Code as below, Enable Isolate script and Save.

```
function onLoad() {
  //Type appropriate comment here, and begin script below
  g_form.setDisabled('u_total',true);
  g_form.setDisabled('u_percentage',true);
  g_form.setDisabled('u_result',true);
}
```

Activity 4: Creating “Total Update” Client Scripts for Student progress Table

- Fill the Details as given.

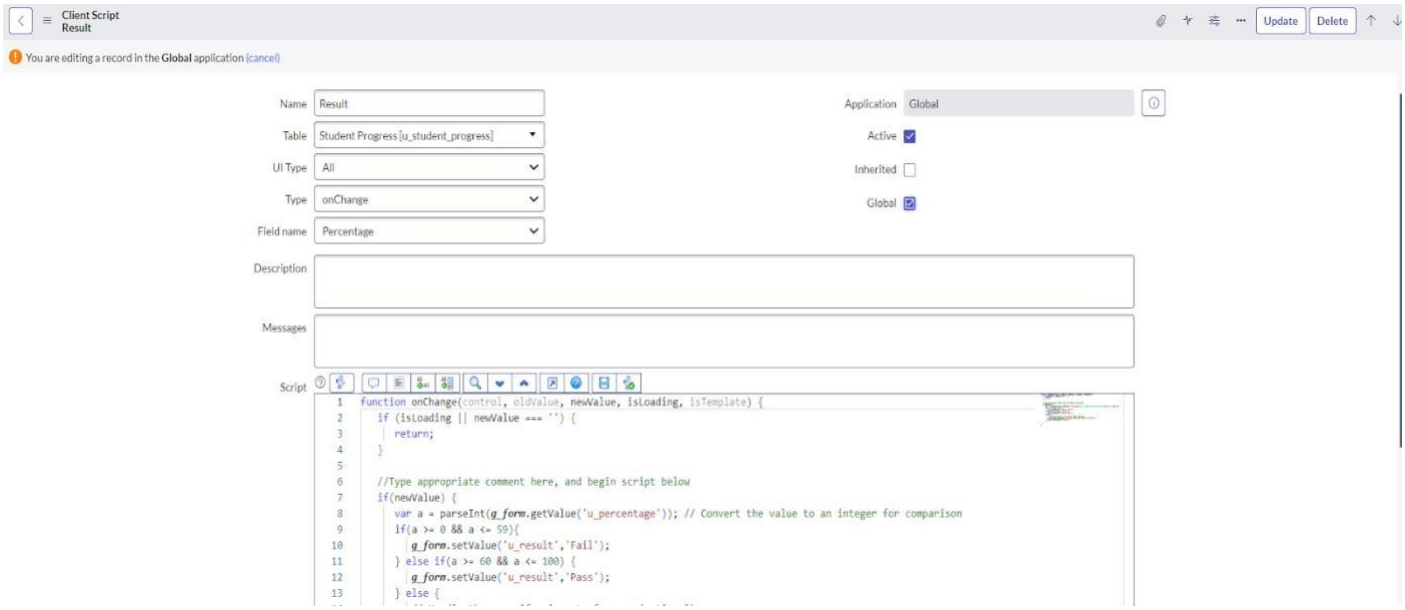


- Write the Code as below, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
  if (isLoading || newValue === '') {
    return;
  }


  //Type appropriate comment here, and begin script below
if (newValue){
var a = parseInt(g_form.getValue('u_telugu'));
var b = parseInt(g_form.getValue('u_hindi'));
var c = parseInt(g_form.getValue('u_english'));
var d = parseInt(g_form.getValue('u_maths'));
var e = parseInt(g_form.getValue('u_science'));
var f = parseInt(g_form.getValue('u_social'));
var Total = parseInt(a+b+c+d+e+f);
g_form.setValue('u_total', Total);
}
}
```

Activity 5: Creating "Total Update" Client Scripts for Student progress Table

- Fill the Details as given.

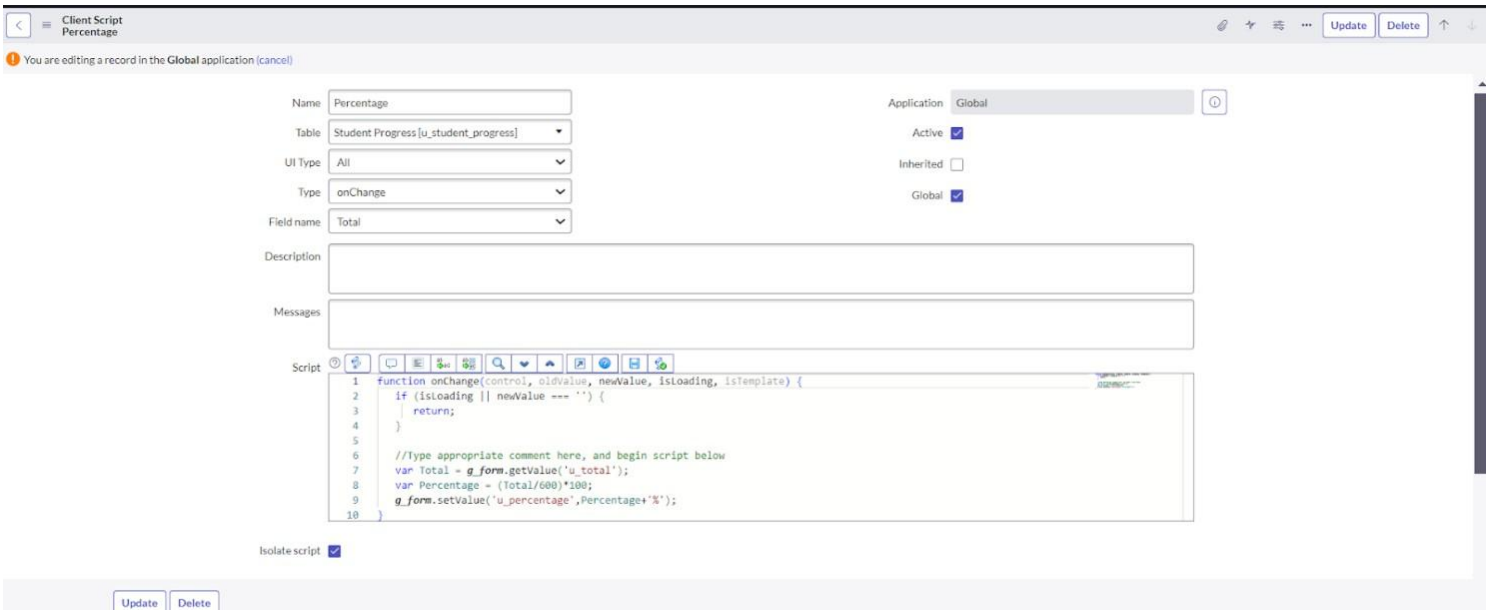


- Write the Code as below, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
  if (isLoading || newValue === '') {
    return;
  }
  //Type appropriate comment here, and begin script below
  if(newValue) {
    var a = parseInt(g_form.getValue('u_percentage')); // Convert the value to an integer for comparison
    if(a >= 0 && a <= 59){
      g_form.setValue('u_result','Fail');
    } else if(a >= 60 && a <= 100) {
      g_form.setValue('u_result','Pass');
    } else {
      // Handle the case if a is out of range (optional)
      g_form.addErrorMessage('Percentage should be between 0 and 100.');
      g_form.clearValue('u_result');
    }
  }
}
```

Activity 6: Creating "Percentage" Client Scripts for Student progress Table

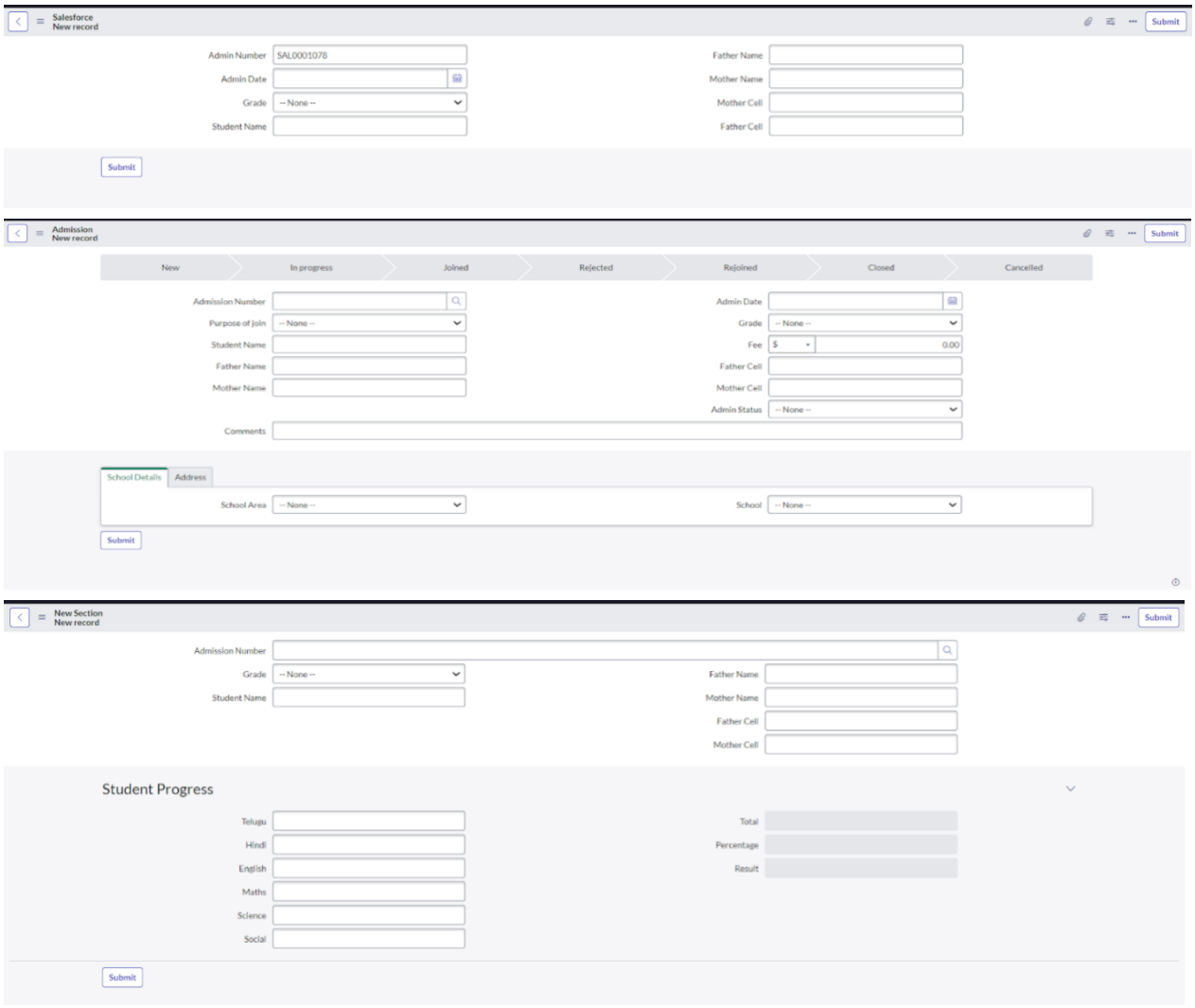
- Fill the Details as given.



- Write the Code as below, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
  if (isLoading || newValue === '') {
    return;
  }

  //Type appropriate comment here, and begin script below
  var Total = g_form.getValue('u_total');
  var Percentage = (Total/600)*100;
  g_form.setValue('u_percentage',Percentage+'%');
}
```

Milestone 9: Result



Conclusion :

The project “Educational Organisation Using ServiceNow” successfully streamlines and automates the admission and student management process in educational institutions. By creating structured tables, forms, and workflows, the system simplifies admissions, stores student and parent details securely, generates admission numbers automatically, and calculates results without manual effort. This reduces errors, saves time for staff, and ensures transparency in record management. Overall, the project demonstrates how ServiceNow can be effectively used to build a digital platform that improves efficiency, accuracy, and user experience in educational organizations.