



## PROJECT REPORT

### TITLE

"EDUCATIONAL ORGANISATION USING SERVICENOW"



Team ID : NM2025TMID18008

## **TEAM DETAILS :**

**Team ID : NM2025TMID18008**

**Team Size : 4**

**Team Leader : RAGUL.S**

**Team member : VIGNESH.G**

**Team member : HARI KRISHNAN.P**

**Team member : PRANAV.A.P**

## **Problem Statement:**

The educational institution is experiencing increasing network disruptions, impacting learning, teaching, and research activities.

Current network management tools lack real-time monitoring, automation, and integration capabilities. Manual processes delay incident detection, root cause analysis, and service restoration. There is limited visibility into network health and asset performance across campuses. Critical systems like LMS, student portals, and research platforms suffer from downtime. Regulatory compliance and IT governance are at risk due to inconsistent tracking and reporting. Implementing ServiceNow Network Management will centralize operations, enhance reliability, and support digital transformation goals.

## **OBJECTIVE:**

The objective of implementing ServiceNow Network Management (NM) in the educational organization is to centralize real-time monitoring of network performance across all campuses. This will help reduce network downtime by enabling proactive issue detection and automated alerts. The project aims to automate incident and change management workflows, improving response times and reducing manual effort. Advanced root cause analysis using AI-powered insights will help identify and resolve recurring issues. Integration with existing ServiceNow ITSM and CMDB systems will ensure a unified IT operations environment. The solution will also support compliance with IT policies and data governance standards. Ultimately, the project seeks to enhance user experience by ensuring reliable access to digital learning platforms, research systems, and administrative services.

## **SKILLS:**

Implementing ServiceNow in an educational organization requires skills in platform configuration, especially ITSM and ITOM modules, to manage services and operations effectively. Knowledge of education-sector processes and ITIL best practices is essential for aligning workflows with academic needs. Integration expertise is needed to connect ServiceNow with campus systems like LMS, HR, and finance platforms. Strong analytical, reporting, and communication skills are also crucial for driving user adoption and continuous improvement.

Student

naammudhahansmartinternz.com/Student/guided\_project\_info/25735#

Guest

Smart Internz

Home

Projects

Support

Guided ProjectProject Workspace

Educational Organisation Using ServiceNow

Setting Up ServiceNow Instance

Creating A Update Set

Creating A Table

Form Layout

Form Design

Number Maintenance

Process Flow

Client Script

Result

Educational Organisation Using ServiceNow

The Educational Management System is a comprehensive platform designed to streamline administrative tasks within educational institutions. It facilitates efficient management of student and teacher data, simplifies the admission process, and provides tools for monitoring student progress.

Type here to search

SENSEX +0.07%

10:10 AM

11-10-2025

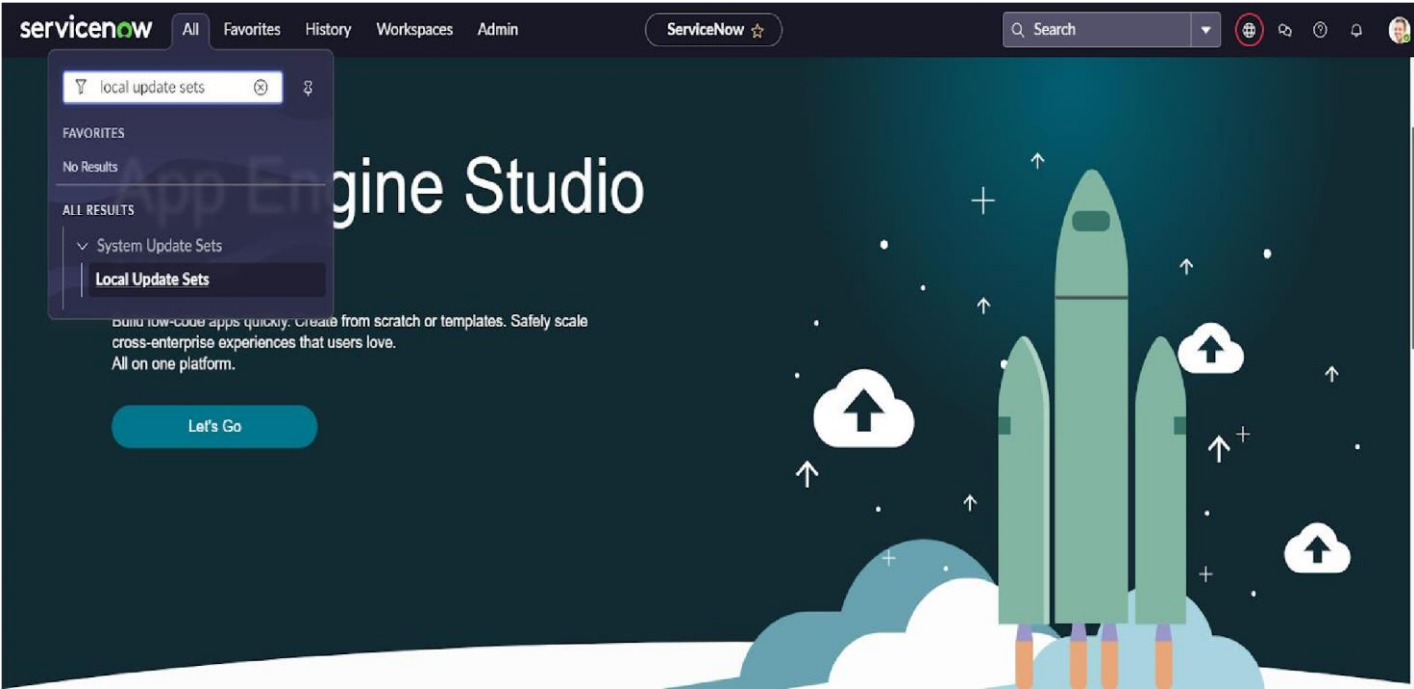
TASK INITATION:

Milestone 1: Educational Organisation Using ServiceNow

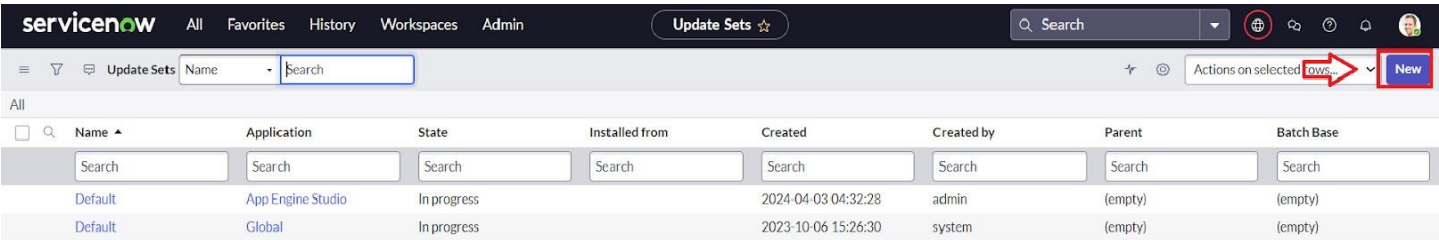
Activity 1: create update set

STEPS:

- 1. Click on All >> Local update sets



- 2. Click on new



3. Enter the Details Name: Educational Organisation >> Click on Submit and make Current.

The screenshot shows the 'Update Set - Create New Update Set' form in ServiceNow. The form includes the following fields and controls:

- Name:** A text input field containing 'New Update Set'.
- State:** A dropdown menu set to 'In progress'.
- Parent:** A text input field with a search icon.
- Release date:** A date picker icon.
- Description:** A large text area.
- Application:** A dropdown menu set to 'Global'.
- Buttons:** 'Submit' and 'Submit and Make Current' buttons are located at the bottom right. A 'Submit' button is also at the bottom left.

## Milestone 2: Creating A Table.

### ACTIVITY 1: Creating Salesforce Table.

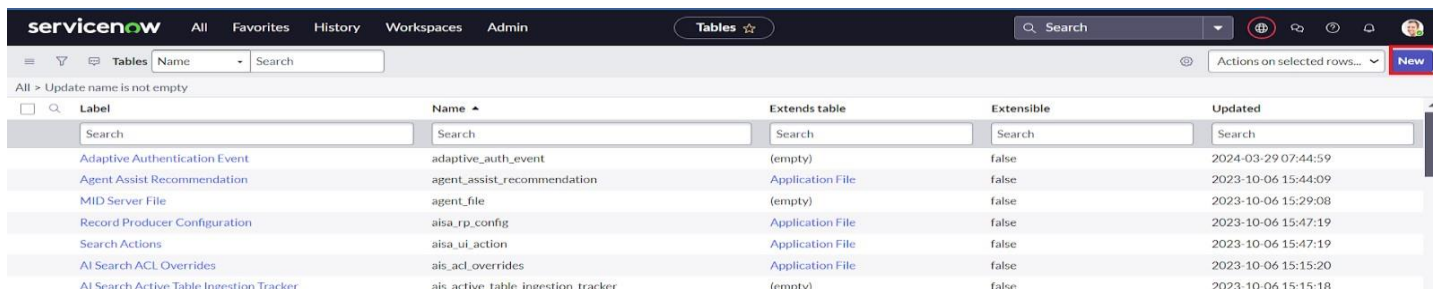
#### STEPS:

1. All >> Tables.

The screenshot shows the 'Import Tables' page in ServiceNow. A search filter 'tables' is applied to the 'Created by user' column, resulting in 'No records to display'. A sidebar menu is open, showing the following structure:

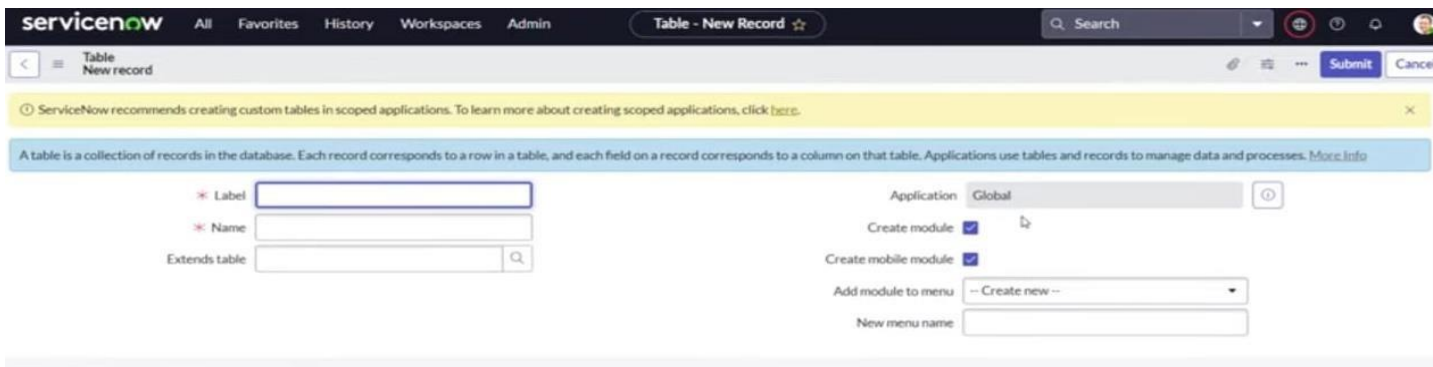
- System Definition
  - Tables** (highlighted with a red box and a red arrow)
  - Tables & Columns
  - Decision Tables
- Remote Tables
  - Tables
  - Definitions
- System Diagnostics
  - Session Debug
  - Debug SQL (Large Tables)
- System Import Sets

## 2.Click ON NEW



Label	Name	Extends table	Extensible	Updated
Search	Search	Search	Search	Search
Adaptive Authentication Event	adaptive_auth_event	(empty)	false	2024-03-29 07:44:59
Agent Assist Recommendation	agent_assist_recommendation	Application File	false	2023-10-06 15:44:09
MID Server File	agent_file	(empty)	false	2023-10-06 15:29:08
Record Producer Configuration	aisa_rp_config	Application File	false	2023-10-06 15:47:19
Search Actions	aisa_ui_action	Application File	false	2023-10-06 15:47:19
AI Search ACL Overrides	ais_acl_overrides	Application File	false	2023-10-06 15:15:20
AI Search Active Table Ingestion Tracker	ais_active_table_ingestion_tracker	(empty)	false	2023-10-06 15:15:18

3.Enter the Label : Salesforce >> Click on Name it will Automatically generate Api name.



ServiceNow recommends creating custom tables in scoped applications. To learn more about creating scoped applications, click [here](#).

A table is a collection of records in the database. Each record corresponds to a row in a table, and each field on a record corresponds to a column on that table. Applications use tables and records to manage data and processes. [More info](#)

\* Label

\* Name

Extends table

Application: Global

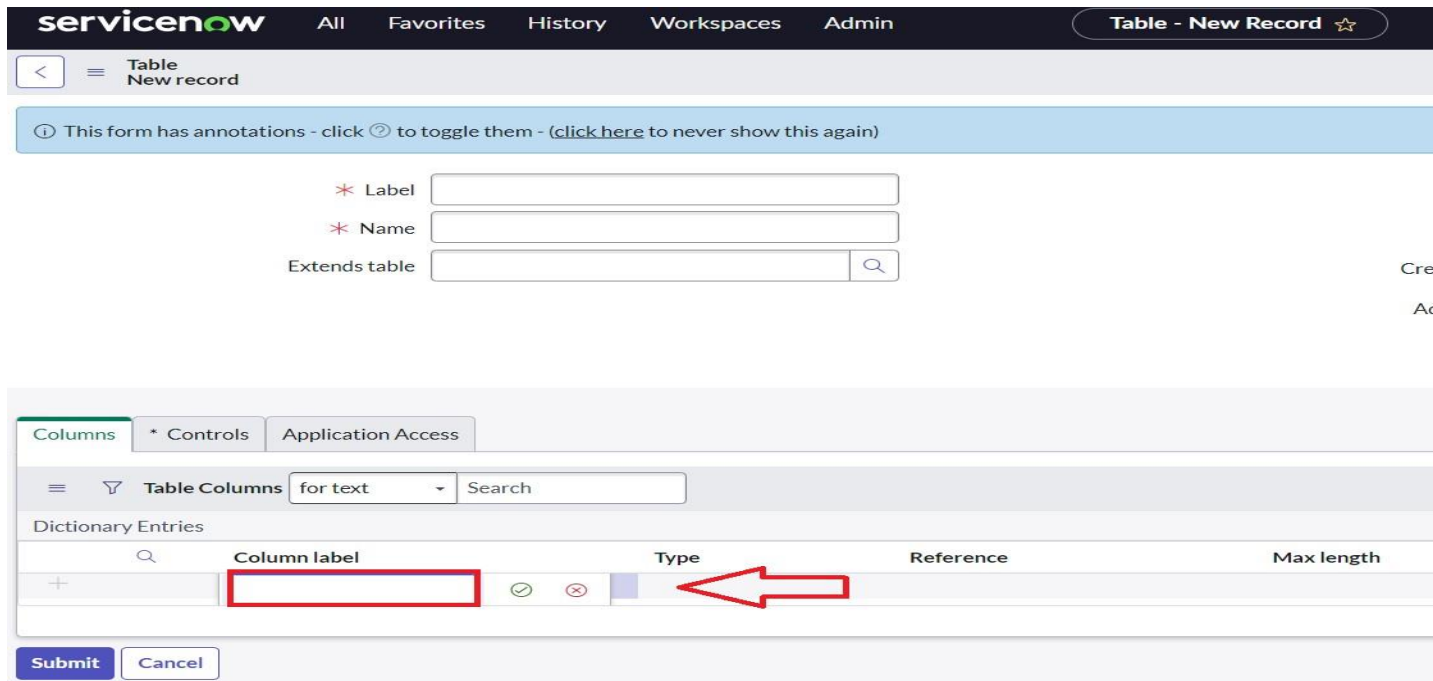
Create module ☒

Create mobile module ☒

Add module to menu: -- Create new --

New menu name:

4. 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 .



This form has annotations - click ⓘ to toggle them - (click [here](#) to never show this again)

\* Label

\* Name

Extends table

Columns \* Controls Application Access

Table Columns for text Search

Dictionary Entries

Column label	Type	Reference	Max length
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Submit Cancel

**Table Salesforce**

This record is in the Global application, but Educational Organisation is the current application. To edit this record click here.

Admin Date	Date	(empty)	40	false
Admin Number	String	(empty)	40	javascript:getNextObjNumberPadded();
Father Cell	String	(empty)	40	false
Father Name	String	(empty)	40	false
Grade	Choice	(empty)	40	false
Mother Cell	String	(empty)	40	false
Mother Name	String	(empty)	40	false
Student Name	String	(empty)	40	false

- For “Admin Number” Give Display as True and right click on the toggle bar on top >> save.
- Click on controls >> Enable Extensible

Columns **Controls** Application Access

Extensible ☒ 

Live feed ☐

Prefix

Number

Number of digits

Create access controls ☒

\* User role

- Click on “Admin Number” column, In Related Links Click on Advanced View >> Default View (Enable Use dynamic default) >> select Get Next Padded Number in Dynamic default value >> Update .
- Click on “Grade” Column >> Click on Choices and give Label ,Value and Sequence as given below

**servicenow** All Favorites History Workspaces Admin Dictionary Entry - Grade ☆

Dictionary Entry Grade

Access Controls **Choices (13)** Attributes Labels (1) Dictionary Overrides

Label Search

Actions on selected rows... New

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: Creating 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

The screenshot shows the ServiceNow 'Table - New Record' configuration page for the 'Admission' table. The 'Columns' tab is active, displaying a list of dictionary entries. The 'Extends table' is set to 'Salesforce' and 'Add module to menu' is also set to 'Salesforce'. The 'Table Columns' section shows a search bar and a list of columns with their respective types, references, and display settings.

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.getTable();	false

4. Create choice for Admin Status as:

The screenshot shows the ServiceNow 'Dictionary Entry' configuration page for the 'Admin Status' choice list. The 'Choices' tab is active, displaying a list of choices with their labels, values, languages, sequences, and update timestamps.

Label	Value	Language	Sequence	Inactive	Updated
New	New	en	1	false	2024-04-02 21:10:25
Join in progress	In progress	en	2	false	2024-04-02 21:11:03
Joined	Joined	en	3	false	2024-04-02 21:11:26
Rejected	Rejected	en	4	false	2024-04-02 21:12:00
Closed	Closed	en	5	false	2024-04-02 21:13:05
Rejoined	Rejoined	en	6	false	2024-04-02 21:13:08
Cancelled	Cancelled	en	7	false	2024-04-02 21:13:27

5. Create choice for Pincode as:

Access Controls Choices (3) Attributes Labels (1) Dictionary Overrides						
= ▾ Label Search						
⊙ — Actions on selected rows... New						
Choices						
<input type="checkbox"/>	<input type="checkbox"/>	Label	Value	Language	Sequence	Inactive Updated
<input type="checkbox"/>	<input type="radio"/>	509358	509358	en		1 false 2024-04-02 21:15:19
		500079	500079	en		2 false 2024-04-02 21:15:46
		500081	500081	en		3 false 2024-04-02 21:16:05
+ Insert a new row...						

6. Create choice for Purpose of Join as:

7. Create choice for School as:

8. Create choice for School Area as:

Access Controls Choices (2) Attributes Labels (1) Dictionary Overrides						
= ▾ Label Search						
⊙ — Actions on selected rows... New						
Choices						
<input type="checkbox"/>	<input type="checkbox"/>	Label	Value	Language	Sequence	Inactive Updated
		Near Market	Near Market	en		1 false 2024-04-02 21:20:53
		Near Bus Stand	Near Bus Stand	en		2 false 2024-04-02 21:21:24
+ Insert a new row...						

ACTIVITY 3: Creating Student Progress Table

STEPS:

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...					

MILESTORE 3: FORM LAYOUT

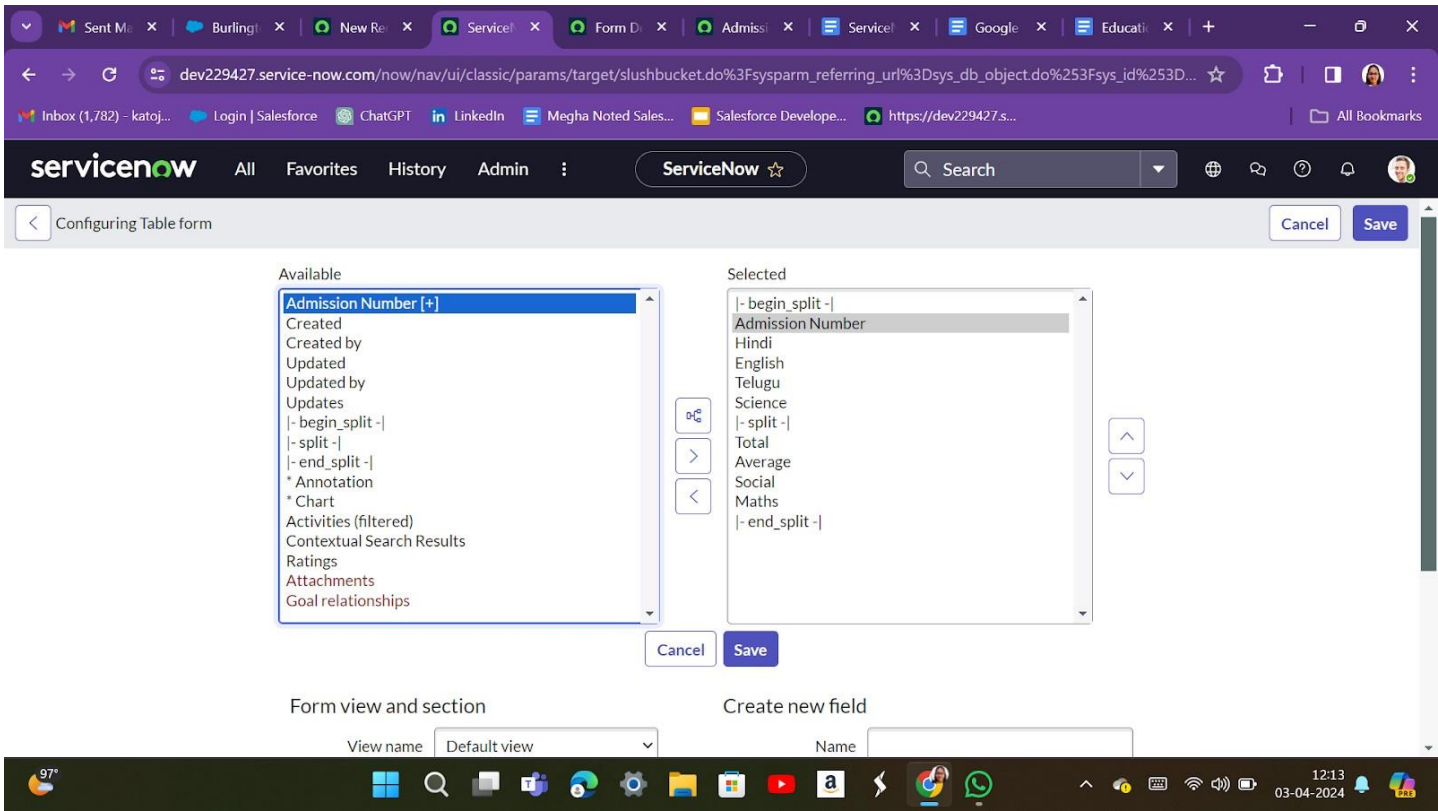
ACTIVITY 1: Configuring Table form for Student Progress Table

STEPS:

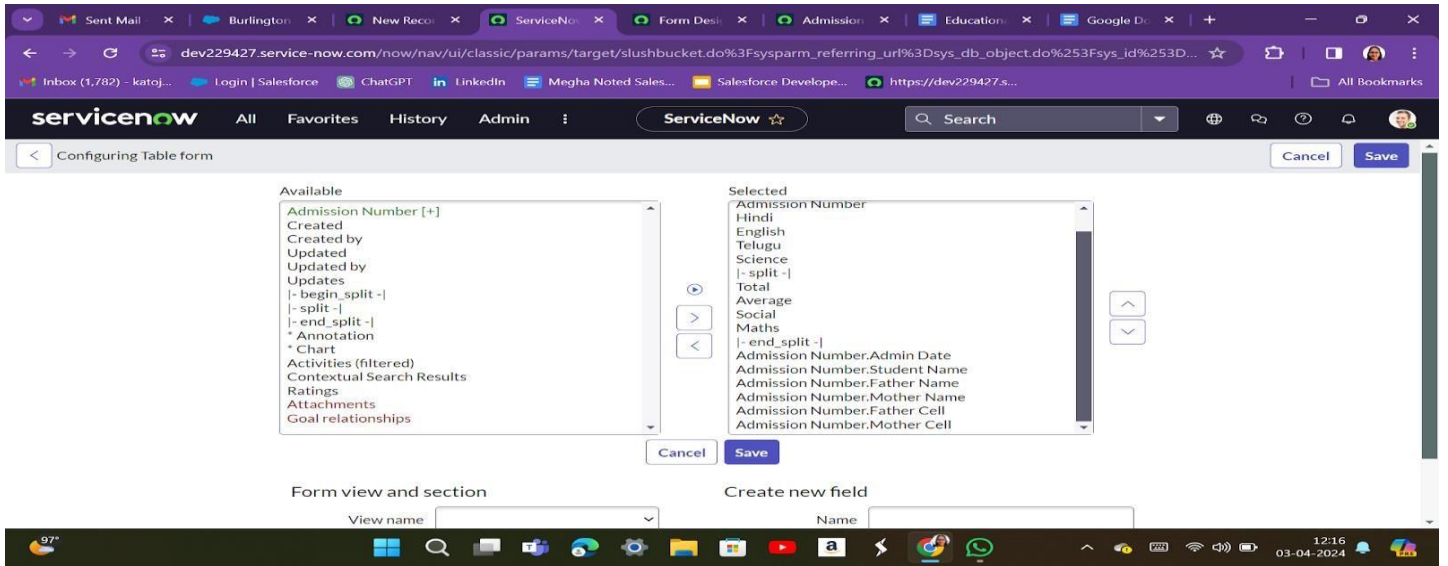
1. In the Student Progress Table Page , Click on Layout form



2. Click on Admission Number [+].



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

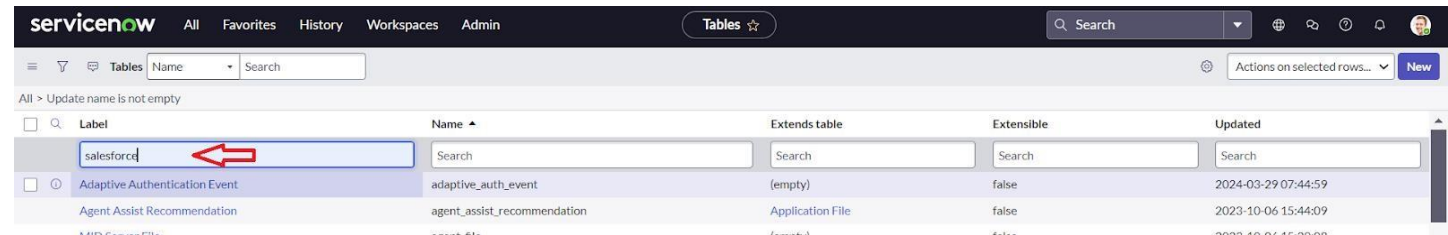


## MILESTONE 4: FORM DESIGN

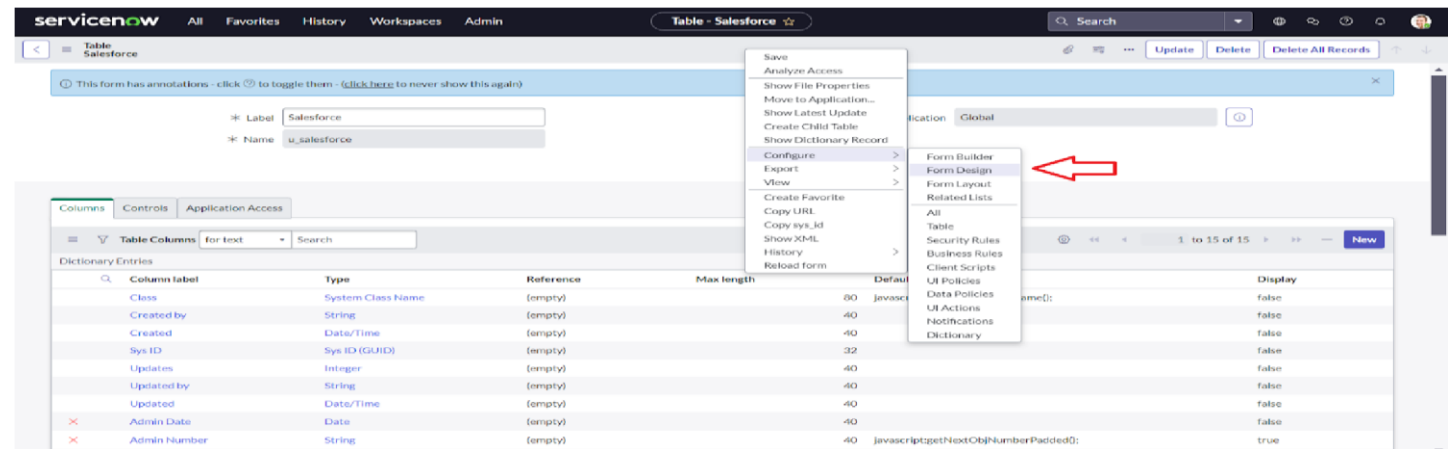
### ACTIVITY 1: Configuring Table form for Student Progress Table

#### STEPS:

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).

The screenshot shows the 'Form Design' interface. At the top, there's a dropdown menu with 'table [sys\_db\_object]' selected. Below it, a red box highlights the 'Salesforce [u\_salesforce]' option in the dropdown, with a red arrow pointing to it. The main area displays a table structure with columns and rows. The table is titled 'Table [sys\_db\_object]' and has a '1 Column' dropdown. The table contains several rows with labels like 'Annotation', 'Label', 'Name', 'Extends table', 'Application', 'Show in Menu (Formatter)', 'Columns', 'Table Columns Formatter (Formatter)', 'Controls', and 'Extensible'. Each row has a '2 Column' dropdown and a '1 Column' dropdown. The left sidebar shows a list of fields: 'Auto number', 'Class', 'Created', 'Created by', 'Display name', 'Extension model', 'Package', 'Protection policy', 'Remote Table', 'Sys class code', and 'Sys class path'.

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

The screenshot shows the 'Form Design' interface after adding fields. The dropdown menu now shows 'Salesforce [u\_salesforce]'. The table structure is updated to show a '2 Column' dropdown. The table contains several rows with labels like 'Admin Number', 'Admin Date', 'Grade', 'Student Name', 'Father Name', 'Mother Name', 'Father Cell', and 'Mother Cell'. Each row has a '2 Column' dropdown and a '1 Column' dropdown. The left sidebar shows a list of fields: 'Class', 'Created', 'Created by', 'Updated', 'Updated by', 'Updates', 'Activities (filtered)', 'Contextual Search Results', and 'Ratings'.

6. Save.

## ACTIVITY 2: Creating Form Design for Admission Table

### STEPS:

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

Admission [x\_admission]

Default view

Form Design

Fields

Field Types

Filter

Fields

Admin Number

Class

Created

Created by

Updated

Updated by

Updates

Formatters

Activities (Filtered)

Contextual Search Results

Ratings

Admission [x\_admission]

1 Col

Process Flow (Formatter)

2 Col

Admission Number

Admin Date

Purpose of join

Grade

Student Name

Fee

Father Name

Father Cell

Mother Name

Mother Cell

Admin Status

1 Col

Comments

2 Col

School Details

School Area

School

2 Col

Address

Pincode

Area

Mandal

City

House No

District

ACTIVITY 3: Creating Form Design for Student progress Table

STEPS:

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

Student Progress [x\_state]

Default view

Form Design

Undo

Save

Fields

Field Types

Filter

Fields

Class

Created

Created by

Social

Updated

Updated by

Updates

Formatters

Activities (Filtered)

Contextual Search Results

Ratings

New Section

1 Col

Admission Number

2 Col

Admission Number Grade

Admission Number Father Name

Admission Number Student Name

Admission Number Mother Name

Admission Number Father Cell

Admission Number Mother Cell

2 Col

Student Progress

Telugu

Total

Hindi

Percentage

English

Result

Maths

Science

MILESTONE 5: NUMBER MAINTENANCE

ACTIVITY 1: Creating Number Maintenance for Admin Number

STEPS:

1. All >> Number Maintenance >> New

servicenow

AllFavoritesHistoryWorkspacesAdmin

Table - Salesforce

Search

UpdateDeleteDelete All Records

number

FAVORITES

No Results

ALL RESULTS

System Definition

Number Maintenance

	Class Name	Reference	Max length	Default value	Display
Created by	String	(empty)	80	javascript:current.getTableName();	false
Created	Date/Time	(empty)	40		false
Sys ID	Sys ID (GUID)	(empty)	32		false
Updates	Integer	(empty)	40		false
Updated by	String	(empty)	40		false

2. Fill the details >> Submit.

servicenow

AllFavoritesHistoryWorkspacesAdmin

Number - SAL

Search

UpdateDelete

Number  
SAL

\* Table

Salesforce

Prefix

SAL

\* Number

Application

Global

Number of digits

7

Update

Delete

Related Links

Show Counter

# MILESTONE 6: PROCESS FLOW

## ACTIVITY 1: Creating Process Flow for Admission Table

### STEPS:

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

Flow Formatter New

\* Table: Admission [u\_admission]

\* Name: New

Application: Global

\* Label: New

Order:

Active: ☒

Condition: Add Filter Condition Add "OR" Clause

Admin Status is New

Description:

Right-hand menu options: Save, Insert, Insert and Stay, Analyze Access, Show File Properties, Move to Application..., Show Latest Update, Configure, Export, View, Create Favorite, Copy URL, Copy sys\_id, Show XML, History, Reload form.

Buttons: Update, Delete

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

Flow Formatter In progress

\* Table: Admission [u\_admission]

\* Name: In progress

Application: Global

\* Label: In progress

Order:

Active: ☒

Condition: Add Filter Condition Add "OR" Clause

Admin Status is Join in progress

Description:

Right-hand menu options: Save, Insert, Insert and Stay, Analyze Access, Show File Properties, Move to Application..., Show Latest Update, Configure, Export, View, Create Favorite, Copy URL, Copy sys\_id, Show XML, History, Reload form.

Buttons: Update, Delete

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



## MILESTONE 7: CLIENT SCRIPT

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

#### STEPS:

1. All >> Client Scripts >> New.
2. Fill the Details as given.

Client Script New record

This form has annotations - click ⓘ to toggle them - (click here to never show this again)

Name: Auto populate

Table: Admission [u\_admission]

UI Type: Mobile / Service Portal

Type: onChange

Field name: Admin Number

Application: Global ⓘ

Active: ☒

Inherited: ☐

Global: ☒

Description:

Messages:

Script ⓘ

```
1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {
2   if (isLoading || newValue === '') {
3     return;
4   }
5
6   //Type appropriate comment here, and begin script below
7
8 }
```

3. 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);
}

```

**Note:** Make sure the Field names should be the same as you created .

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

### STEPS:

1.Fill the Details as given.

The screenshot shows the Salesforce Client Script configuration page for a script named 'Pincode Update'. The script is associated with the 'Admission [u\_admission]' table and is triggered on the 'Pincode' field when it changes. The script is set to be active, inherited, and global. The script code is as follows:

```

1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {
2   if (isLoading || newValue === '') {
3     return;
4   }
5   var a = g_form.getValue('u_pincode');
6   if(a == '589358')
7   {
8     g_form.setValue('u_mandal', 'kadthal');
9     g_form.setValue('u_city', 'kadthal');
10  }
11 }

```

2. 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_m
andal', 'Abids');
g_form.setValue('u_ci
ty', '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

#### STEPS:

##### 1.Fill the Details as given

The screenshot shows the 'Client Script' configuration page in ServiceNow. The title is 'Client Script - Disable Fields'. A notification bar at the top states: 'This form has annotations - click ⓘ to toggle them - (click here to never show this again)'. The form fields are as follows:

- Name: Disable Fields
- Table: Student Progress [u\_student\_progress]
- UI Type: All
- Type: onLoad
- Application: Global
- Active: ☒
- Inherited: ☐
- Global: ☒

Description and Messages fields are empty.

Script editor content:

```
1 function onLoad() {  
2     //Type appropriate comment here, and begin script below  
3     g_form.setDisabled('u_total',true);  
4     g_form.setDisabled('u_percentage',true);  
5     g_form.setDisabled('u_result',true);  
6 }
```

##### 3.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

#### STEPS

##### 1. Fill the Details as given.

The screenshot shows the 'Client Script' configuration page in ServiceNow. The title is 'Client Script - Total Up...'. A notification bar at the top states: 'You are editing a record in the Global application (cancel)'. The form fields are as follows:

- Name: Total Update
- Table: Student Progress [u\_student\_progress]
- UI Type: All
- Type: onChange
- Field name: Social
- Application: Global
- Active: ☒
- Inherited: ☐
- Global: ☒

Description and Messages fields are empty.

Script editor content:

```
1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {  
2     if (isLoading || newValue === '') {  
3         return;  
4     }  
5  
6     //Type appropriate comment here, and begin script below  
7     if (newValue){  
8         var a = parseInt(g_form.getValue('u_telugu'));  
9         var b = parseInt(g_form.getValue('u_hindi'));  
10        var c = parseInt(g_form.getValue('u_english'));  
11        var d = parseInt(g_form.getValue('u_maths'));  
12        var e = parseInt(g_form.getValue('u_science'));  
13        var f = parseInt(g_form.getValue('u_social'));  
14        var Total = parseInt(a+b+c+d+e+f);  
15        g_form.setValue('u_total', Total);  
16    }  
17 }
```

At the bottom, the 'Isolate script' checkbox is checked.

4. 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:

### STEPS:

#### 1. Creating “Result” Client Scripts for Student progress Table

The screenshot shows the Salesforce Client Script editor interface. The top bar indicates the script is for the 'Result' field in the 'Global' application. The left sidebar shows the 'Result' field selected under the 'Student Progress (u\_student\_progress)' table. The main area displays the script editor with the following code:

```
1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {
2   if (isLoading || newValue === '') {
3     return;
4   }
5
6   //Type appropriate comment here, and begin script below
7   if(newValue) {
8     var a = parseInt(g_form.getValue('u_percentage')); // Convert the value to an integer for comparison
9     if(a >= 0 && a <= 50){
10      g_form.setValue('u_result', 'Fail');
11    } else if(a >= 60 && a <= 100) {
12      g_form.setValue('u_result', 'Pass');
13    } else {
```

3. 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.');
```

## ACTIVITY 6: Creating “Percentage” Client Scripts for Student progress Table

### STEPS:

1. Fill the Details as given.

The screenshot shows the Salesforce Client Script editor interface. At the top, the title bar reads 'Client Script Percentage'. Below it, a message states 'You are editing a record in the Global application (cancel)'. The main form contains the following fields:

- Name:** Percentage
- Table:** Student Progress [u\_student\_progress]
- UI Type:** All
- Type:** onChange
- Field name:** Total
- Application:** Global
- Active:** ☒
- Inherited:** ☐
- Global:** ☒

Below these fields are empty text areas for 'Description' and 'Messages'. The 'Script' section contains the following code:

```
1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {
2   if (isLoading || newValue === '') {
3     return;
4   }
5
6   //Type appropriate comment here, and begin script below
7   var Total = g_form.getValue('u_total');
8   var Percentage = (Total/600)*100;
9   g_form.setValue('u_percentage',Percentage+'%');
10 }
```

At the bottom left, the 'Isolate script' checkbox is checked. At the bottom right, there are 'Update' and 'Delete' buttons.

2. 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+'%');
}
```

**1.**

**2.**

### 3.

<

=

New Section  
New record

Submit

Admission Number

Grade

-- None --

▼

Student Name

Father Name

Mother Name

Father Cell

Mother Cell

### Student Progress

Telugu

Hindi

English

Maths

Science

Social

Total

Percentage

Result

Submit