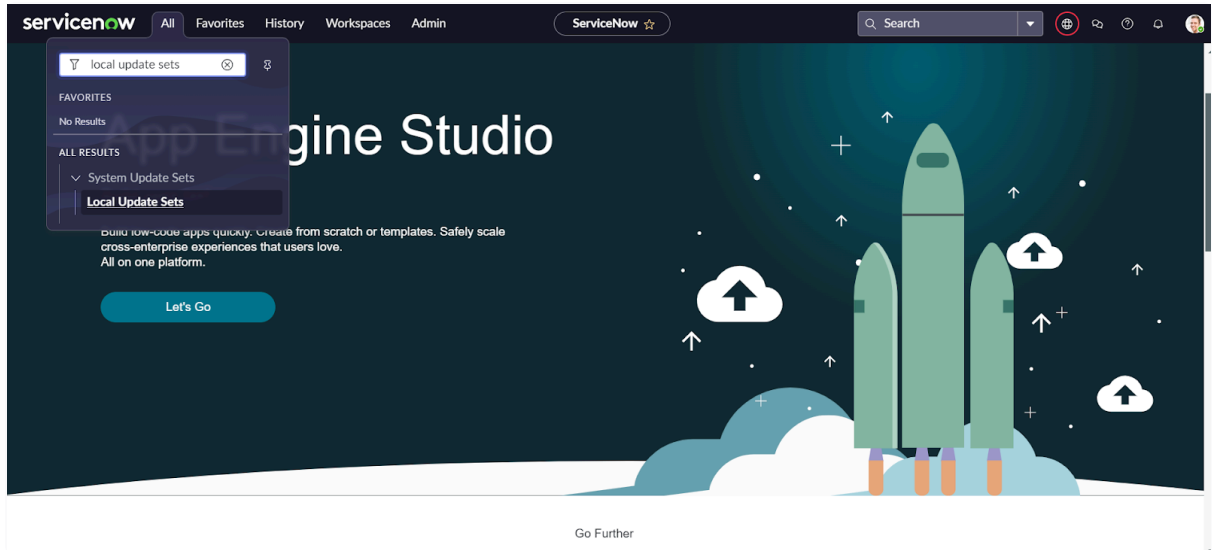
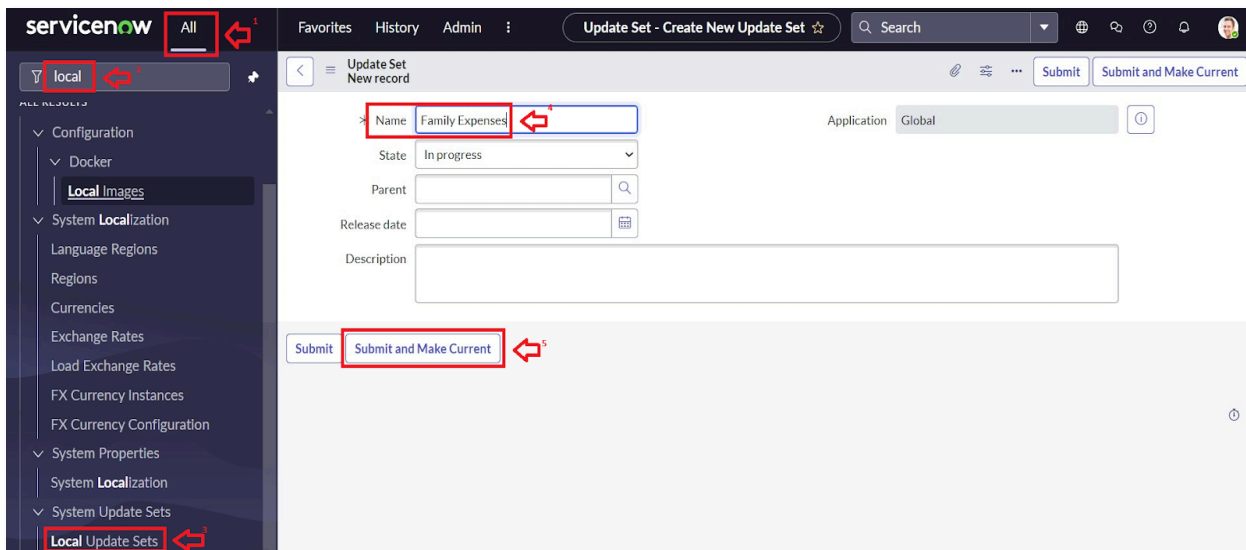


# FAMILY EXPENSES

1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:  
Name : Family Expenses
3. Then click on Submit and Make current.



1. Go to All > In the filter search for Tables > click on New.
2. Enter the Details:  
Label : Family Expenses  
Name : Auto-Populated

New menu name : Family Expenditure

The screenshot shows a configuration window for a table. At the top, there are two input fields: 'Label' with the value 'Family Expenses' and 'Name' with the value 'u\_st\_family\_expenses'. To the right, there are several settings: 'Application' set to 'Global', 'Remote Table' checked, 'Create module' checked, 'Create mobile module' checked, 'Add module to menu' set to '-- Create new --', and 'New menu name' set to 'Family Expenditure'. Below these settings is a tabbed interface with 'Columns', 'Controls', and 'Application Access' tabs. The 'Columns' tab is active, showing a 'Table Columns' section with a search bar and a 'Dictionary Entries' table.

	Column label	Type	Reference	Max length	Default value	Display
	Number	String				false
	Date	Date				false
	Amount	Integer				false

3. Go to the Header and right click there>> click on Save.

## Creation of Columns(Fields)


1. Near Columns Double click near insert a new row.
2. Give the details as:  
Column label : Number  
Type : String
3. Double click on insert a new row again
4. Give the details as:  
Column label : Date  
Type : Date
5. Double click on insert a new row again
6. Give the details as:  
Column label : Amount  
Type : Integer
7. Double click on insert a new row again
8. Give the details as:  
Column label : Expense Details  
Type : String  
Max length : 800

Columns						
Table Columns						
Dictionary Entries						
	Column label	Type	Reference	Max length	Default value	Display
	Number	String				false
	Date	Date				false
	Amount	Integer				false
	Expense Details	String		800		false


9. Go to the Header and right click there>> click on Save.


## Making Number Field an Auto-Number


1. Double click on the Number Field/Column.
2. Go down and double click on Advanced view
3. In Default Value:
  - Use dynamic default : check the box
  - Dynamic default value : Get Next Padded Number
4. Click on Update.

Choice List Specification   Calculated Value   **Default Value** 

The **Default value** specifies what value the field has when first displayed.

☒ Use dynamic default 

Dynamic default value   Get Next Padded Number 

Delete Column   **Update** 

- 5.
6. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
7. Click on New.
8. Enter the below Details:
  - Table : Family Expenses
  - Prefix : MFE

Number MFE

Table Family Expenses

Prefix MFE

Number 1,000

Application Global

Number of digits 7

Update Delete

9. Click on Submit.

## Configure the Form

1. Go to All >> In the filter search for Family Expenses >> Open Family Expenses
2. Click on New
3. Go to the Header and right click there>> click on Configure >> Select Form Design
4. Customize or Drag Drop the form as per your requirement.

Family Expenses [u\_family\_expenses] 2 Column

Number Date Amount

Expense Details 1 Column

5. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
6. Make Date, Amount Mandatory Field by clicking on the gear icon and checking Mandatory
7. Click on Save.

## Creation of Daily Expenses Table

1. Go to All > In the filter search for Tables > click on New.
2. Enter the Details:  
Label : Daily Expenses  
Name : Auto-Populated

### Add Module to menu : Family Expenditure

The screenshot shows the 'Add Module to menu' configuration page in SAP S/4HANA Fiori. On the left, there are three input fields: 'Label' with the value 'Daily Expenses' (highlighted with a red box and arrow 1), 'Name' with the value 'u\_daily\_expenses' (highlighted with a red box and arrow 2), and 'Extends table' which is empty. On the right, there is a panel with the following options: 'Application' set to 'Global', 'Create module' checked, 'Create mobile module' checked, and 'Add module to menu' set to 'Family Expenditure' (highlighted with a red box and arrow 3). A button labeled 'Application Menu' is also visible.

3. Go to the Header and right click there>> click on Save.

## Creation of Columns(Fields)

1. Near Columns Double click near insert a new row.
2. Give the details as:  
Column label : Number  
Type : String
3. Double click on insert a new row again
4. Give the details as:  
Column label : Date  
Type : Date
5. Double click on insert a new row again
6. Give the details as:  
Column label : Expense  
Type : Integer
7. Double click on insert a new row again
8. Give the details as:  
Column label : Family Member Name  
Type : Reference  
Max length : 800
9. Double click on insert a new row again

10. Give the details as:

Column label : Comments

Type : String

Max length : 800

11. Go to the Header and right click there>> click on Save.

## Making Number Field an Auto-Number

1. Double click on the Number Field/Column.

2. Go down and double click on Advanced view

3. In Default Value:

Use dynamic default : check the box

Dynamic default value : Get Next Padded Number

4. Click on Update.

Choice List Specification Calculated Value **Default Value**

The **Default value** specifies what value the field has when first displayed.

Use dynamic default ☒

Dynamic default value Get Next Padded Number

Delete Column **Update**

5.

6. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance

7. Click on New.

8. Enter the below Details:

Table : Family Expenses

Prefix : MFE

Number New record

\* Table Daily Expenses

Prefix DFE

\* Number 1,000

Application Global

Number of digits 7

Submit

9. Click on Submit.

## Configure the Form

1. Go to All >> In the filter search for Daily Expenses >> Open Daily Expenses
2. Click on New
3. Go to the Header and right click there>> click on Configure >> Select Form Design
4. Customize or Drag Drop the form as per your requirement.

!! Daily Expenses [u\_daily\_expenses] 2 Column

Number Date Family Member Name Expense

!! 1 Column

Comments

5. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
6. Make Date, Family Member Name Mandatory Field by clicking on the gear icon and checking Mandatory
7. Click on Save.

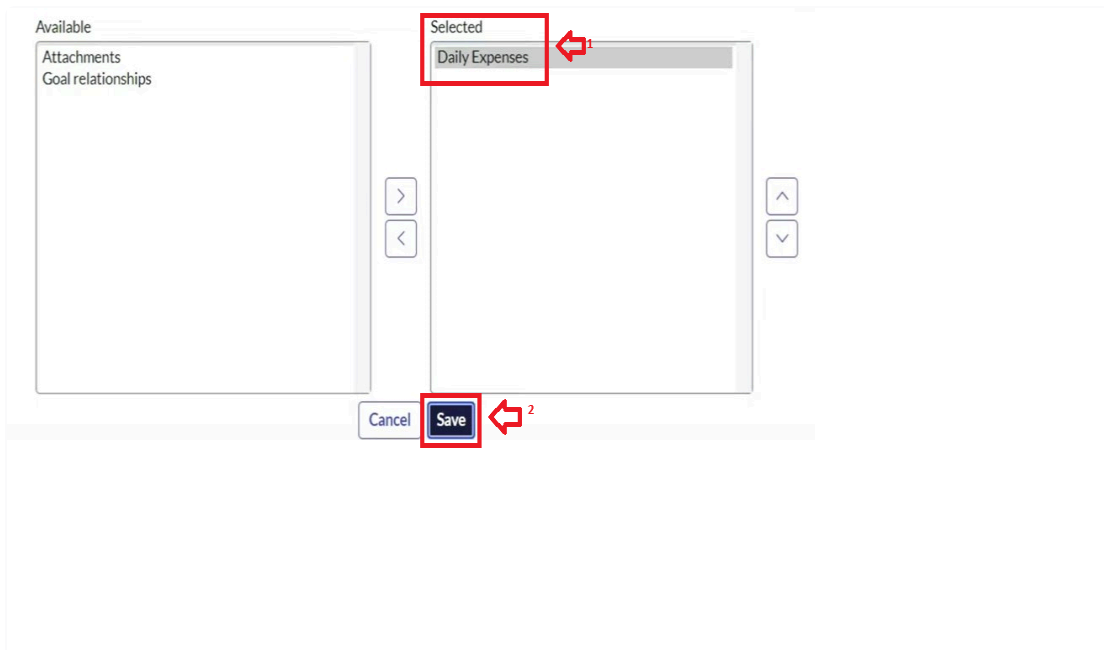
## Creation of Relationship between Family Expenses and Daily Expenses tables

1. Go to All >> In the filter search for Relationships >> Open Relationships

2. Click on New.
3. Enter the details:  
Name : Daily Expenses  
Applies to table : Select Family Expenses  
Daily Expenses : Select Daily Expenses
4. Click Save.

## Configuring Related List on Family Expenses

1. Go to All >> In the filter search for Family Expenses >> Open Family Expenses
2. Click on New
3. Go to the Header and right click there>> click on Configure >> Select Related Lists
4. Add Daily Expenses to the Selected Area.
5. Click on Save



## Creation of Business Rules

1. Go to All >> In the filter search for Business Rules.
2. Under System Definition Select Business Rules then click on New.
3. Enter the Details:  
Name : Family Expenses BR  
Table : Select Daily Expenses  
Check Advanced



Business Rule  
New record

Business rule is a server-side script that runs when a record is displayed, inserted, deleted, or when a table is queried. Use business rules to automatically change values in form fields when the specified conditions are met.

Name: Family Expenses BR ← 1

Table: Daily Expenses [u\_daily\_expenses] ← 2

Application: Global ①

Active ☒

Advanced ☒ ← 3

#### 4. In when to run Check Insert and Update

When to run ← 1 Actions Advanced

Specify whether the business rule should run on **Insert** or **Update**. Use **Filter Conditions** to specify under which conditions.

When: before v

Order: 100

Insert ☒ ← 2

Update ☒

Delete ☐

Query ☐

Filter Conditions: Add Filter Condition Add "OR" Clause

-- choose field -- v -- oper --  -- value --

Role conditions ✎

#### 5. In Advance(we write the code): Write the below code >>

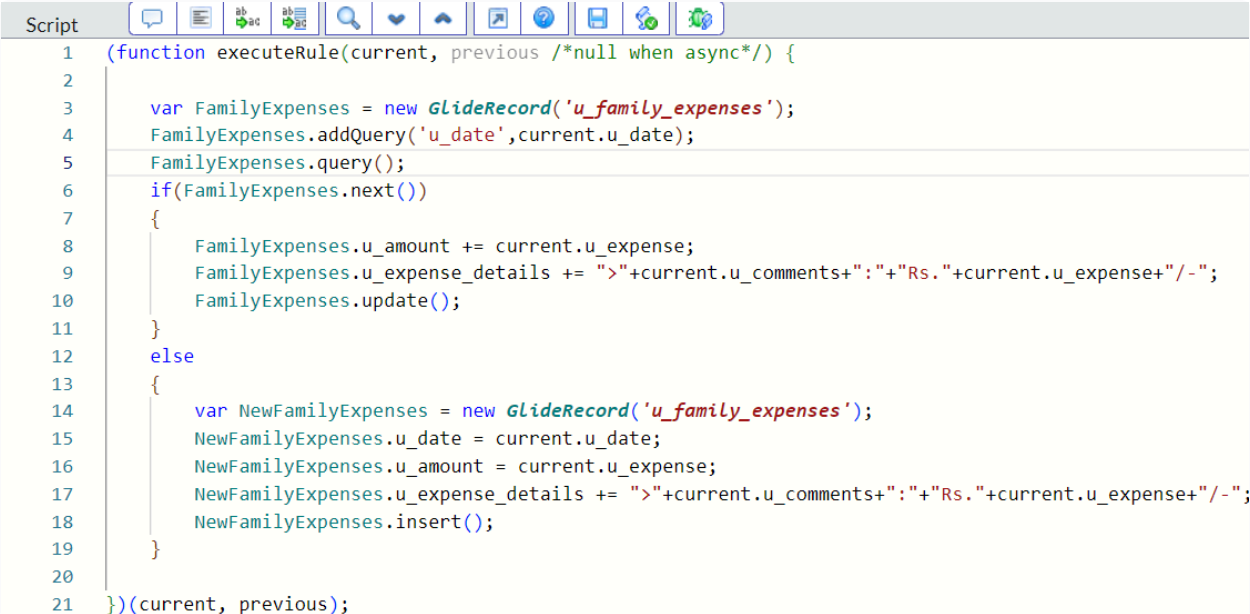
```
(function executeRule(current, previous /*null when async*/) {  
  
    var FamilyExpenses = new GlideRecord('u_family_expenses');  
    FamilyExpenses.addQuery('u_date',current.u_date);  
    FamilyExpenses.query();  
    if(FamilyExpenses.next())
```

```

{
  FamilyExpenses.u_amount += current.u_expense;
  FamilyExpenses.u_expense_details +=
">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
  FamilyExpenses.update();
}
else
{
  var NewFamilyExpenses = new GlideRecord('u_family_expenses');
  NewFamilyExpenses.u_date = current.u_date;
  NewFamilyExpenses.u_amount = current.u_expense;
  NewFamilyExpenses.u_expense_details +=
">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
  NewFamilyExpenses.insert();
}

})(current, previous);

```



```

Script
1  (function executeRule(current, previous /*null when async*/) {
2
3      var FamilyExpenses = new GlideRecord('u_family_expenses');
4      FamilyExpenses.addQuery('u_date', current.u_date);
5      FamilyExpenses.query();
6      if(FamilyExpenses.next())
7      {
8          FamilyExpenses.u_amount += current.u_expense;
9          FamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
10         FamilyExpenses.update();
11     }
12     else
13     {
14         var NewFamilyExpenses = new GlideRecord('u_family_expenses');
15         NewFamilyExpenses.u_date = current.u_date;
16         NewFamilyExpenses.u_amount = current.u_expense;
17         NewFamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
18         NewFamilyExpenses.insert();
19     }
20
21 })(current, previous);

```

6. Go to the Header and right click there>> click on Save.

## Configure the Relationship

1. Go to All >> In the filter search for Relationships >> Open Relationships.

2. In that, open Daily Expenses Relationship.
3. For Applies to table : Select Family Expenses.
4. In Query with : write the below Query.

```
(function refineQuery(current, parent) {  
  
    // Add your code here, such as current.addQuery(field, value);  
    current.addQuery('u_date',parent.u_date);  
    current.query();  
  
})(current, parent);
```

5. Click on Update.

Relationship  
Daily Expenses

Name:

Application:

Advanced: ☐

Applies to table:  1

Queries from table:

This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see [the documentation](#) See also the article about the [recommended form of the script](#).

Query with

```
1 (function refineQuery(current, parent) {  
2  
3     // Add your code here, such as current.addQuery(field, value);  
4     current.addQuery('u_date',parent.u_date);  
5     current.query();  
6  
7 })(current, parent);
```

 2

Update Delete

 3

## Conclusion

In conclusion, implementing the "Calculation of Family Expenses Using ServiceNow" project offers numerous benefits to the household. By leveraging the robust capabilities of ServiceNow, family members can efficiently submit, track, and manage their expenses in a centralized and streamlined manner.