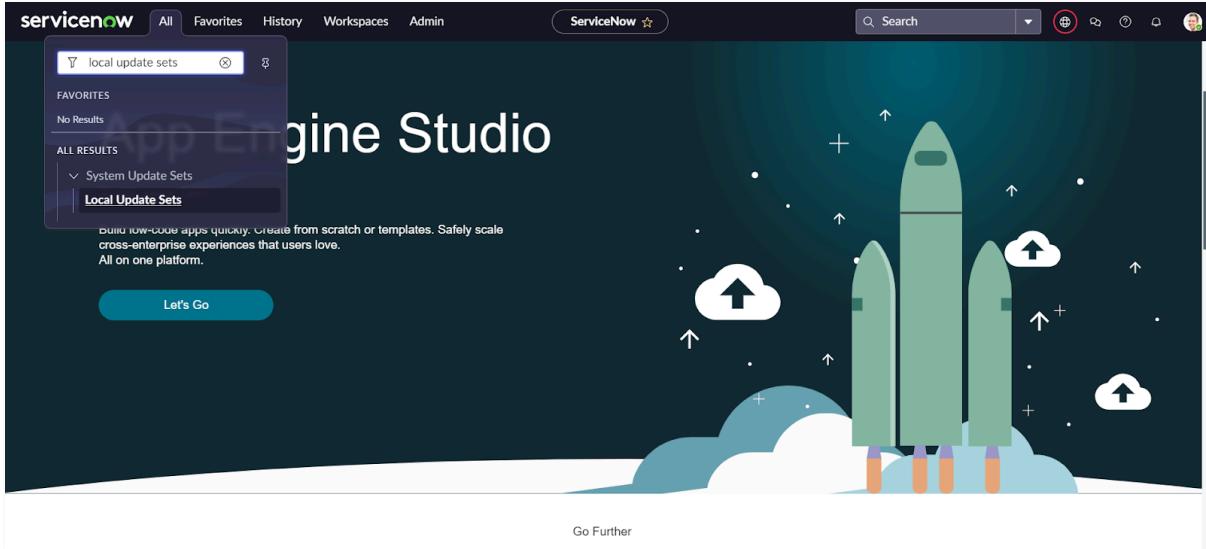


FAMILY EXPENSES

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.

This screenshot shows the 'Update Set - Create New Update Set' page. The left sidebar has 'local' selected. The main form has 'Name' set to 'Family Expenses'. The 'Submit and Make Current' button at the bottom is highlighted with a red box and a red arrow pointing to it.

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 the SAP Fiori Launchpad configuration screen. At the top, there are fields for 'Label' (Family Expenses) and 'Name' (u_st_family_expenses), both highlighted with a red box. To the right, there are application settings: 'Application' set to 'Global', 'Remote Table' checked, and 'Create module' and 'Create mobile module' both checked. Below these are dropdown menus for 'Add module to menu' (set to '-- Create new --') and 'New menu name' (set to 'Family Expenditure', also highlighted with a red box). At the bottom, there are tabs for 'Columns', 'Controls', and 'Application Access'. The 'Columns' tab is selected, showing a table titled 'Dictionary Entries' with three rows:

	Column label ▾	Type	Reference	Max length	Default value	Display
X	Number	String			false	
X	Date	Date			false	
X	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

The screenshot shows a table configuration interface with the following columns:

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.

The screenshot shows the 'Default Value' configuration dialog with the following steps highlighted:

- Step 1: The 'Default Value' tab is selected.
- Step 2: The 'Use dynamic default' checkbox is checked.
- Step 3: The 'Dynamic default value' dropdown is set to 'Get Next Padded Number'.
- Step 4: The 'Update' button is highlighted.

- 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

- Click on Submit.

Configure the Form

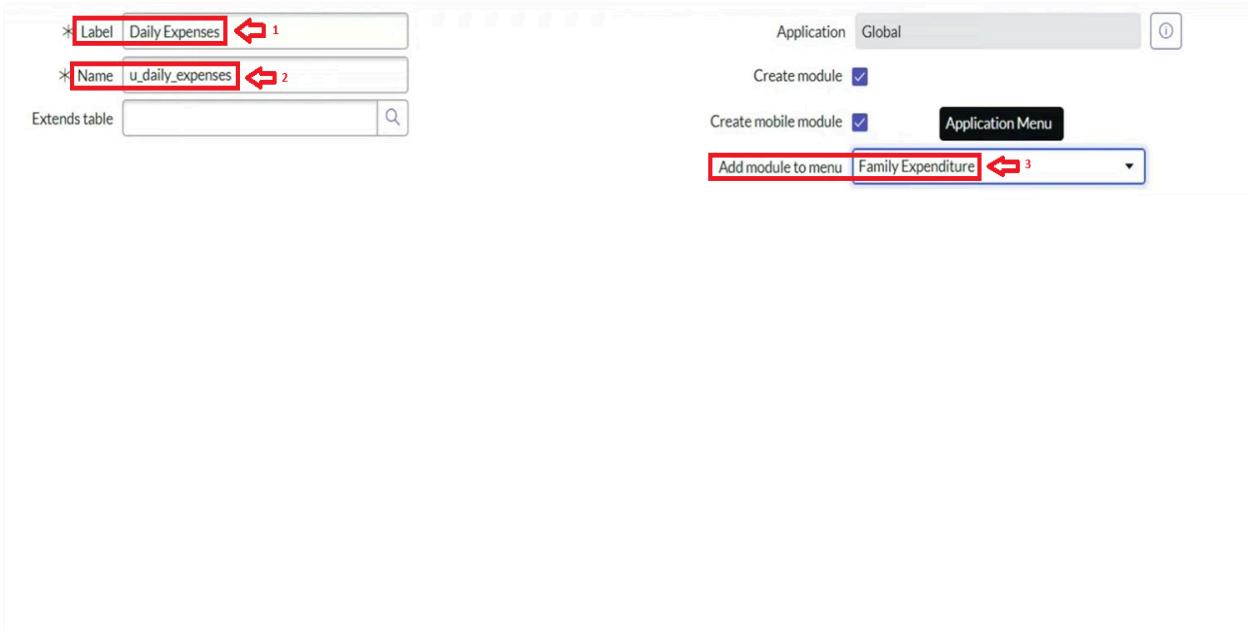
- Go to All > In the filter search for Family Expenses > Open Family Expenses
- Click on New
- Go to the Header and right click there >> click on Configure >> Select Form Design
- Customize or Drag Drop the form as per your requirement.

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

Creation of Daily Expenses Table

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

Add Module to menu : Family Expenditure



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.

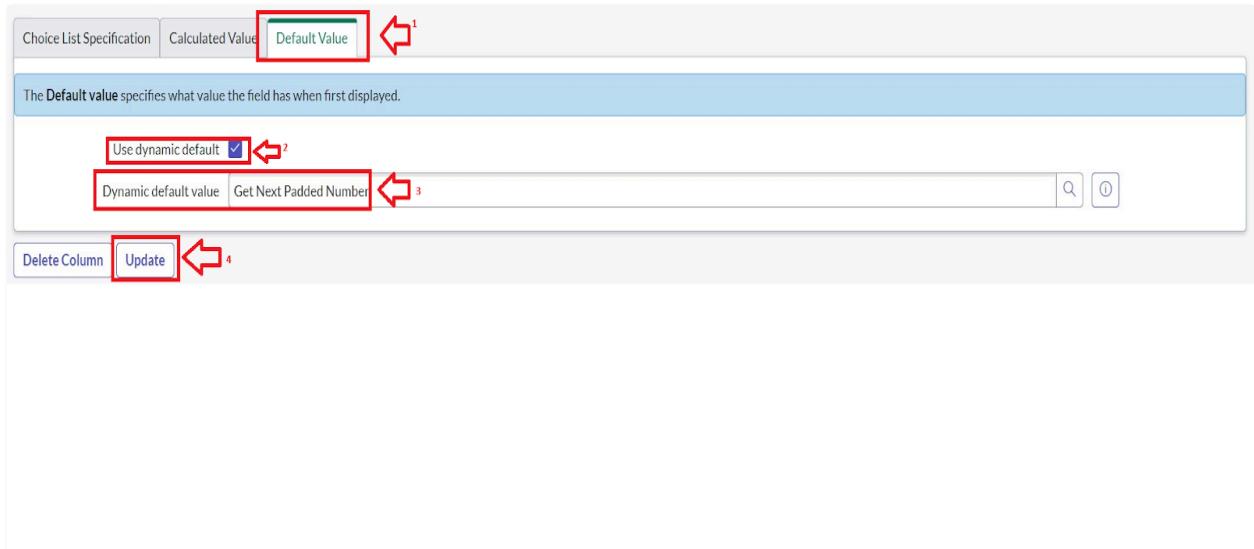
2. Go down and double click on Advanced view

3. In Default Value:

Use dynamic default : check the box

Dynamic default value : Get Next Padded Number

4. Click on Update.



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

The screenshot shows a configuration interface for a new record. At the top, there's a header with a back arrow, a save icon, and a submit button. Below the header, there are several input fields: a dropdown for 'Table' set to 'Daily Expenses' (marked with red arrow 1), a text input for 'Prefix' containing 'DFE' (marked with red arrow 2), and other fields for 'Number' (set to 1,000), 'Application' (set to 'Global'), and 'Number of digits' (set to 7). At the bottom left is a blue 'Submit' button, which is also highlighted with a red arrow 3.

- Click on Submit.

Configure the Form

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

The screenshot shows the configuration of the 'Daily Expenses [u_daily_expenses]' form. It consists of two main sections. The top section, labeled '2 Column', contains four fields: 'Number', 'Date', 'Family Member Name', and 'Expense'. The bottom section, labeled '1 Column', contains a single field labeled 'Comments'. Each field has a gear icon and an 'X' icon to its right.

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

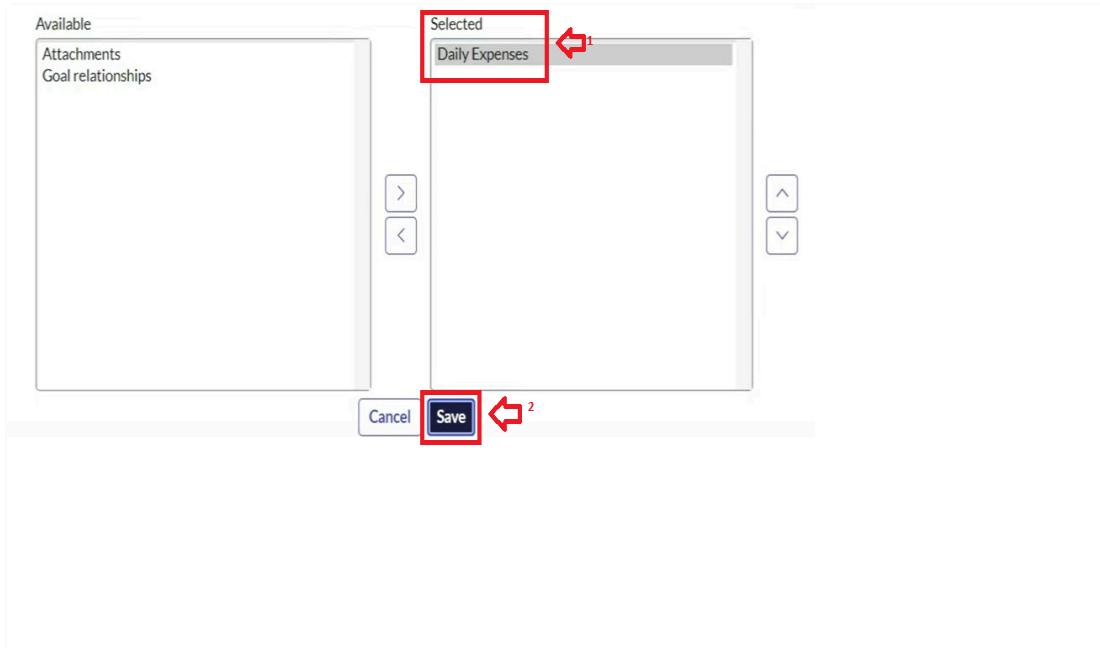
Creation of Relationship between Family Expenses and Daily Expenses tables

- 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.

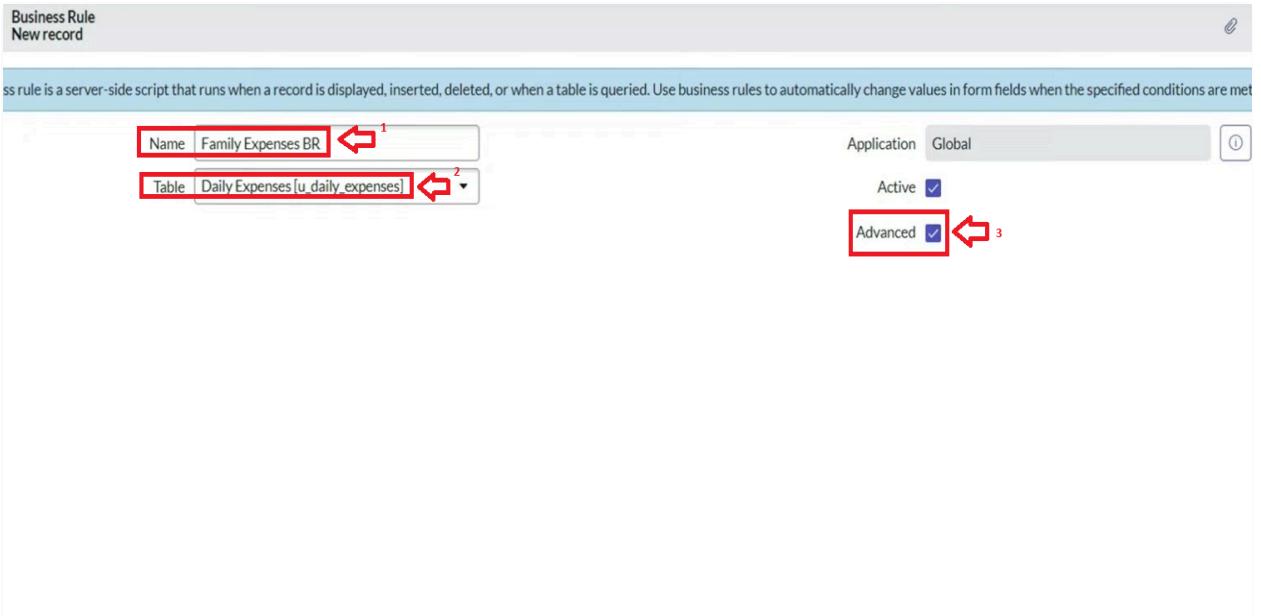
Configuring Related List on Family Expenses

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

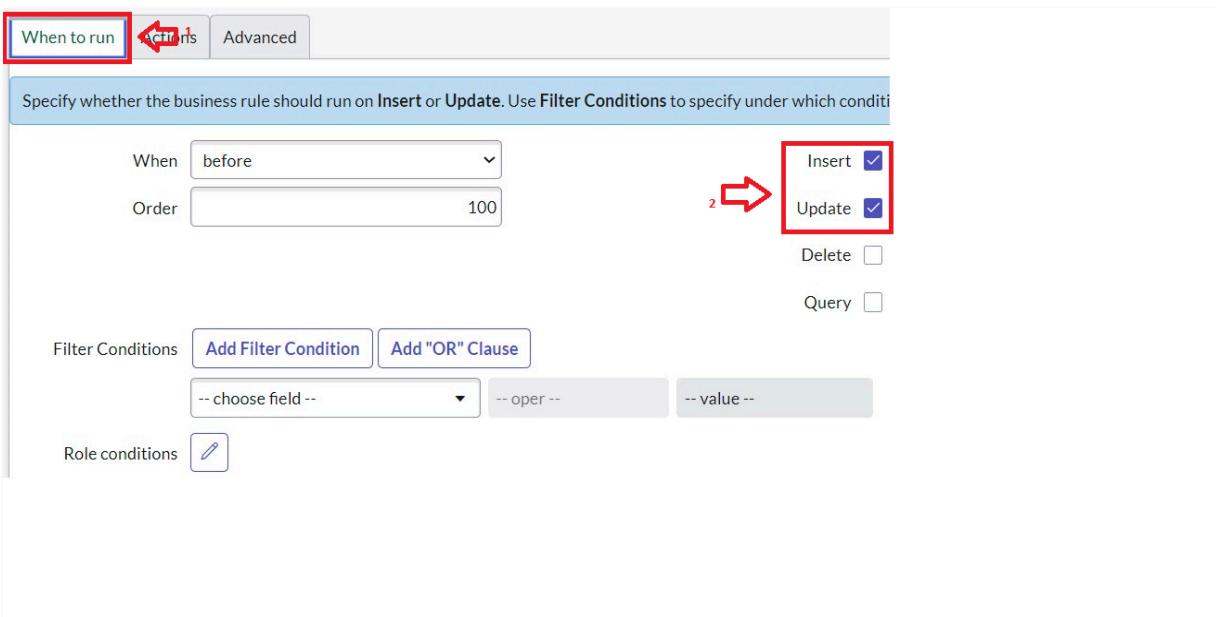


Creation of Business Rules

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



4. In when to run Check Insert and Update



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())  
        // Your logic here  
})
```

```

{
    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.

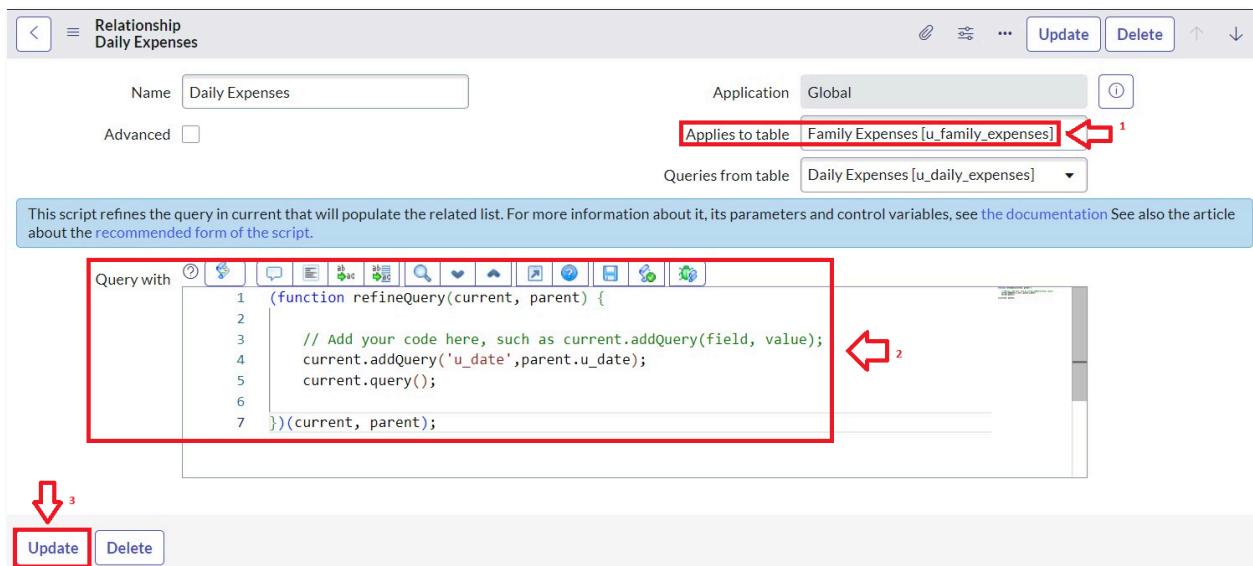
2. In that, open Daily Expenses Relationship.
3. For Applies to table : Select Family Expenses.
4. In Query with : write the below Query.

```
(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.



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.