Calculating Family Expenses

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Team Size: 4

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What is ServiceNow?

ServiceNow is the Al Platform for Business Transformation—and it all begins with workflows. We are a single platform that brings together any AI, any data, and any workflow, so you can completely transform how people work across every corner of your business. IT problems vanish before they appear. Operational systems alert and fix before a failure even happens. Customers receive answers before frustration sets in. Field service arrives on-time, informed, and ready. And your people? They spend less time mired in busywork and more time doing what they were actually hired to do. That's how you put AI to work for people

Calculating FamilyExpenses

The project aims to develop a comprehensive expense calculation system using ServiceNow. This system will enable users to track and manage family expenses efficiently. It will include features such as expense categorization, budget setting, real-time tracking, and reporting capabilities. Utilizing ServiceNow's robust platform, the project will ensure seamless integration, user-friendly interface, and scalability to accommodate varying family sizes and financial complexities. The end goal is to empower users with the tools they need to make informed financial decisions and promote financial well-being within the family unit.

Setting up ServiceNow Instance

- 1. Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".
- 2. Once logged in, navigate to the "Personal Developer Instance" section.
- 3. Click on "Request Instance" to create a new ServiceNow instance.
- 4. Fill out the required information and submit the request.
- 5. You'll receive an email with the instance details once it's ready.
- 6. Log in to your ServiceNow instance using the provided credentials.
- 7. Now you will navigate to the ServiceNow.

Creation of New Update Set

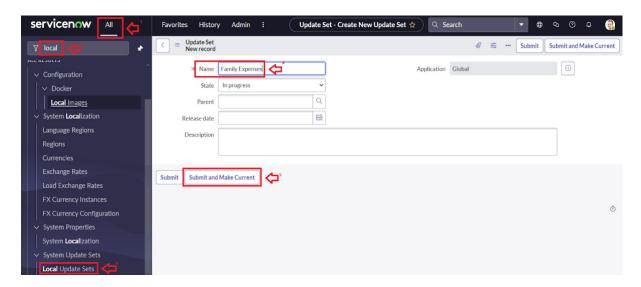
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

Name: Family Expenses

3. Then click on Submit and Make current.



Creation of New Update Set

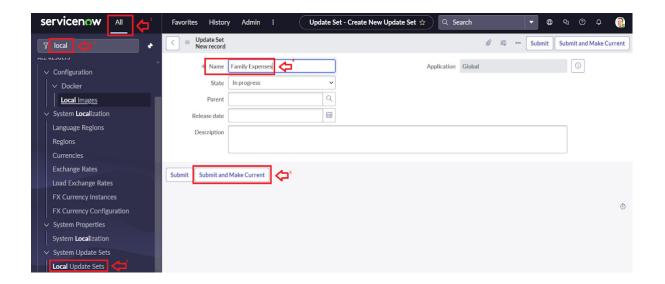
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

Name: Family Expenses

3. Then click on Submit and Make current.

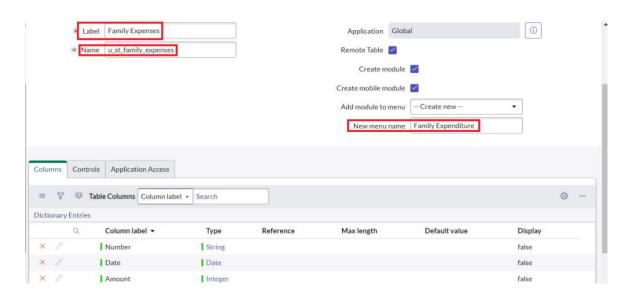


Creation of Family Expenses Table

- 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



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



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.



- 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



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.



- 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





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



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.



- 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:

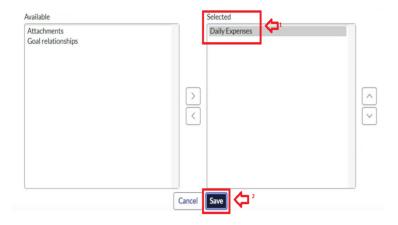
Name: Daily Expenses

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

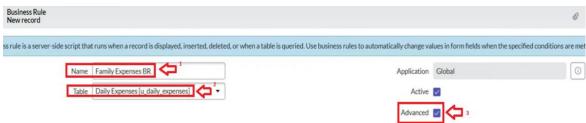


Creation of Business Rules

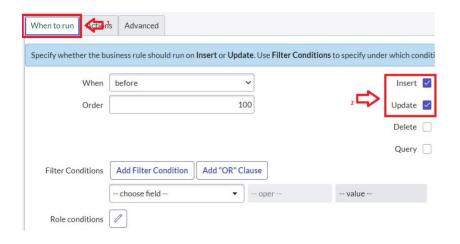
- 1. Go to All >> In the filter search for Business Rules.
- 2. Under System Definition Select Business Rules then click on New.
- 3. Enter the Details:

Name : Family Expenses BR Table : Select Daily Expenses

Check Advanced



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())
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
       (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();
           if(FamilyExpenses.next())
   7
   8
              FamilyExpenses.u_amount += current.u_expense;
              FamilyExpenses.u_expense_details += ">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
   9
  10
              FamilyExpenses.update();
  11
  12
           else
  13
              var NewFamilyExpenses = new GlideRecord('u_family_expenses');
  14
  15
              NewFamilyExpenses.u_date = current.u_date;
              NewFamilyExpenses.u_amount = current.u_expense;
  16
  17
              NewFamilyExpenses.u_expense_details += ">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
  18
              NewFamilyExpenses.insert();
  19
      })(current, previous);
```

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

Configure the Relationship

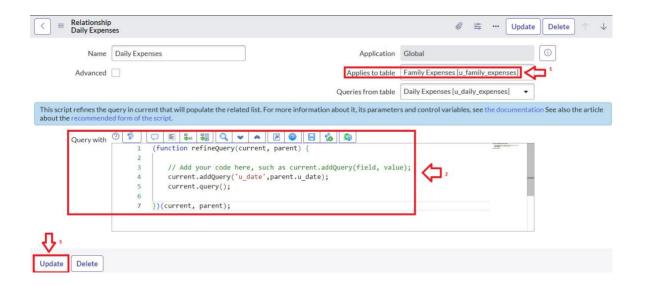
- 1. Go to All >> In the filter search for Relationships >> Open Relationships.
- 2. In that, open Daily Expenses Relationship.
- 3. For Applies to table: Select Family Expenses.
- 4. In Query with: write the below Query.

```
(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, managing family expenses is essential for maintaining financial stability and achieving long-term goals. By tracking income and expenditures, setting budgets, and prioritizing needs over wants, families can make better financial decisions. Proper expense management helps reduce unnecessary spending, avoid debt, and build savings for future needs such as education, healthcare, and emergencies. Ultimately, effective control of family expenses ensures a secure, balanced, and stress-free financial life for all family members.