Calculating Family Expenses using Service Now

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Team Members: 5{FIVE}

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Problem statement:

Families often struggle to track and calculate their daily, monthly, and yearly expenses effectively. Manual tracking can be time-consuming and prone to errors.

Objective:

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.

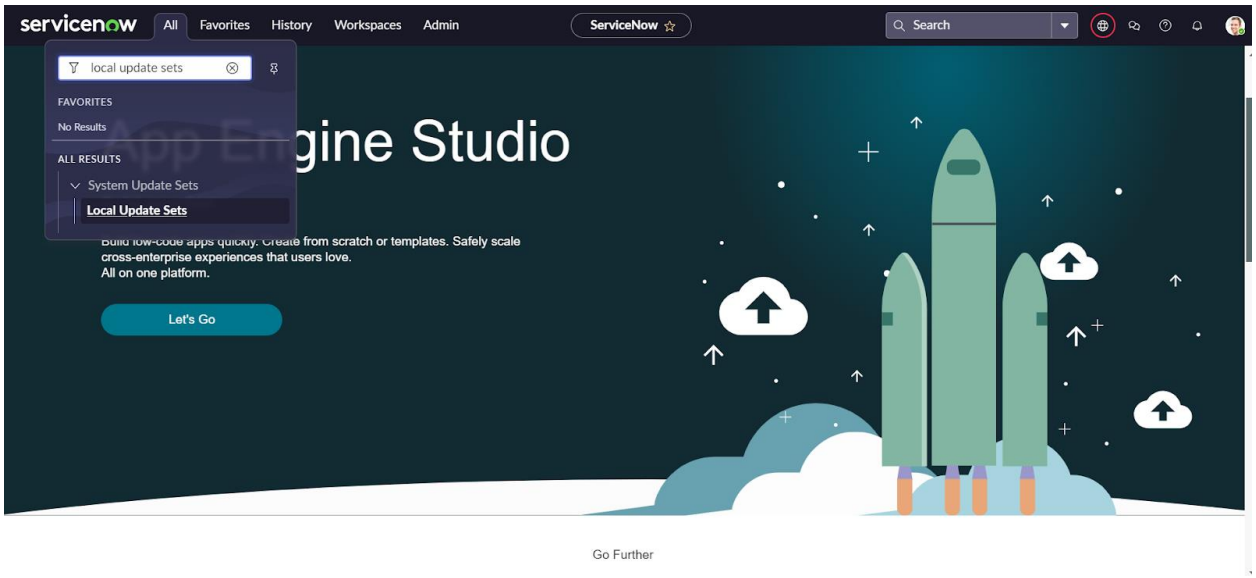
- Skills
- : ServiceNow basics (Instance setup, update sets)
- Table creation and relationships
- Configuring related lists
- Creating Business Rules
- Access control configuration

TASK INVITIATION

Milestone 1: create users

Activity 1 : create users

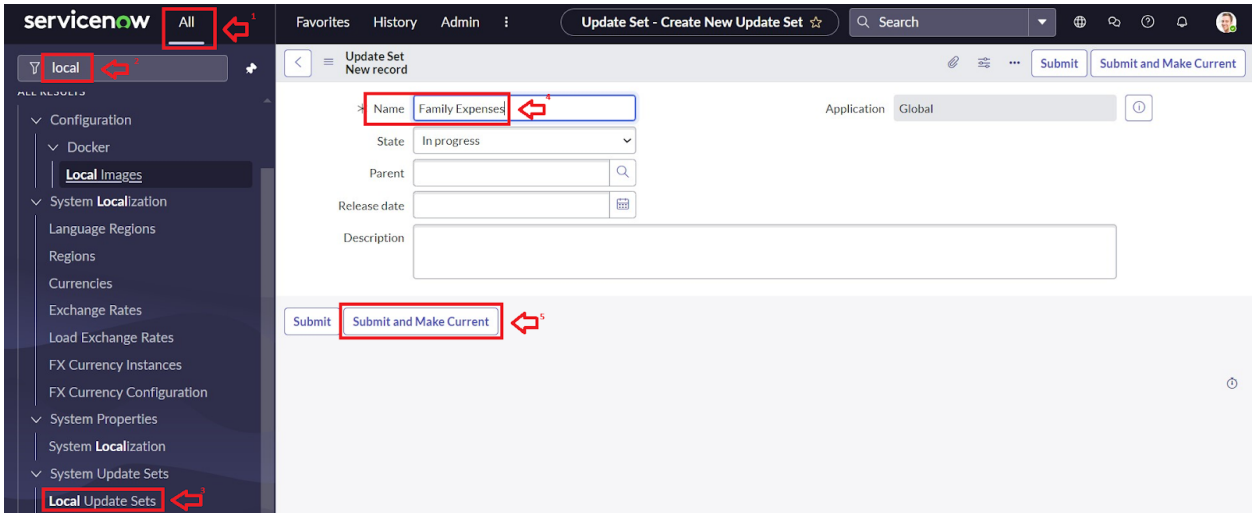
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

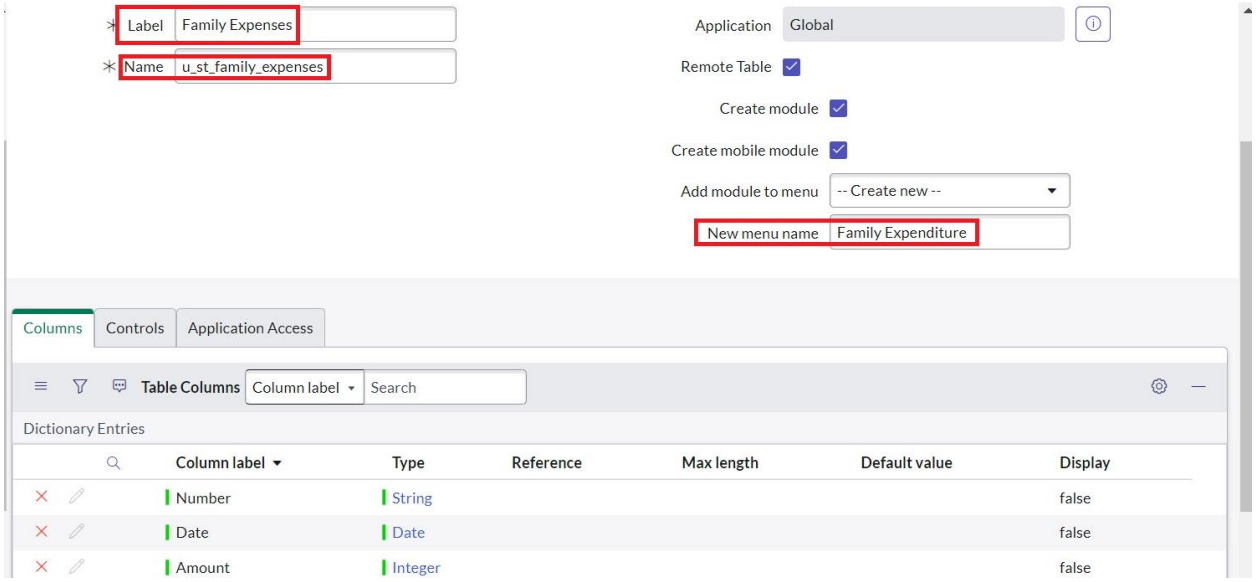
Name : Family Expenses

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

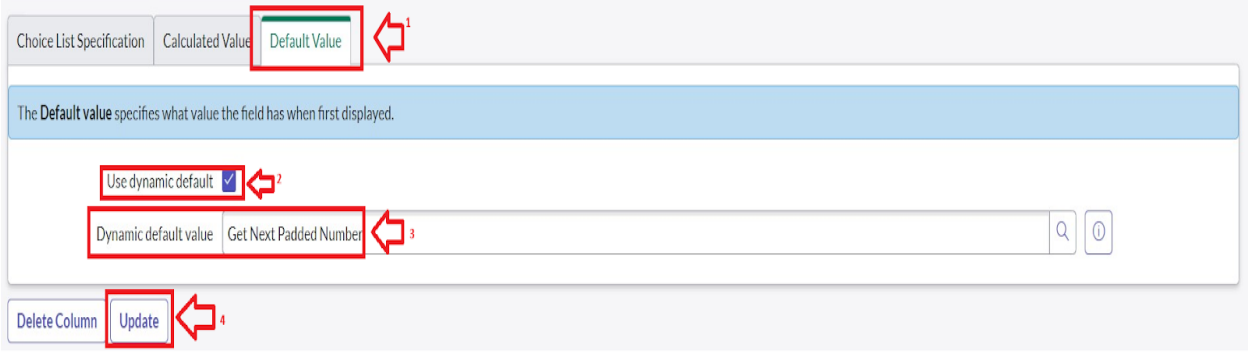
8. Give the details as:
   Column label : Expense Details
   Type : String
   Max length : 800

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



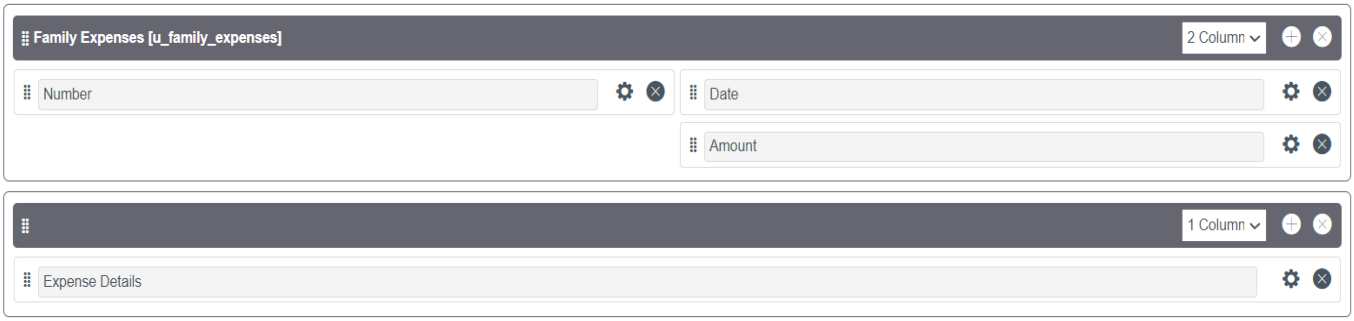
4.Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
5.Click on New.
6.Enter the below Details:

Table : Family Expenses
Prefix : MFE

9.Click on Submit.

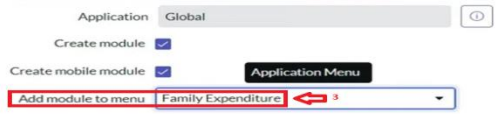
1. **Go to All >> In the filter search for Family Expenses >> Open Family Expenses**
2. **Click on New**
3. **Go to the Header and right click there>> click on Configure >> Select Form Design**

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.

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.

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:**

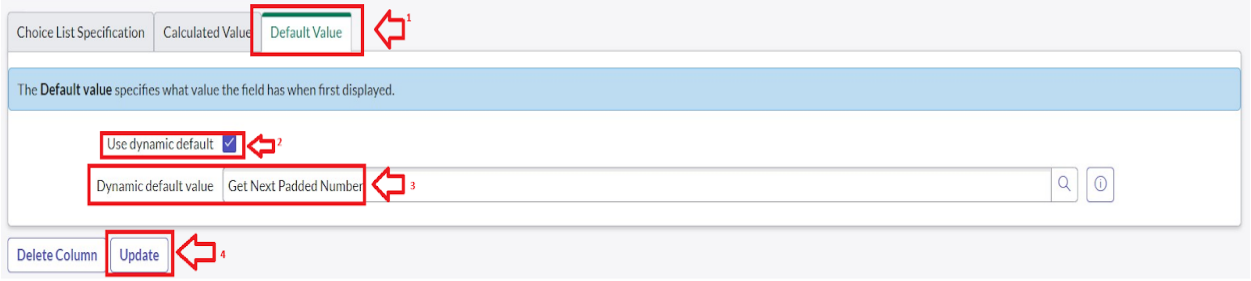
Column label : Comments
Type : String
Max length : 800

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.



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

6. Click on New.

7. 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 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

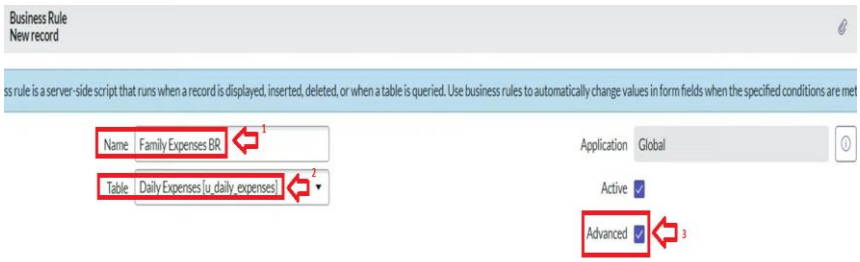
1. **Go to All >> In the filter search for Relationships >> Open Relationships**
2. **Click on New.**
3. **Enter the details:**
   Name : Daily Expenses
   Applies to table : Select Family Expenses
   Daily Expenses : Select Daily Expenses
4. **Click Save**.

Configuring Related List on Family Expenses

1. Go to All >> In the filter search for Family Expenses >> Open Family Expen ses
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);
```

Configure the Relationship

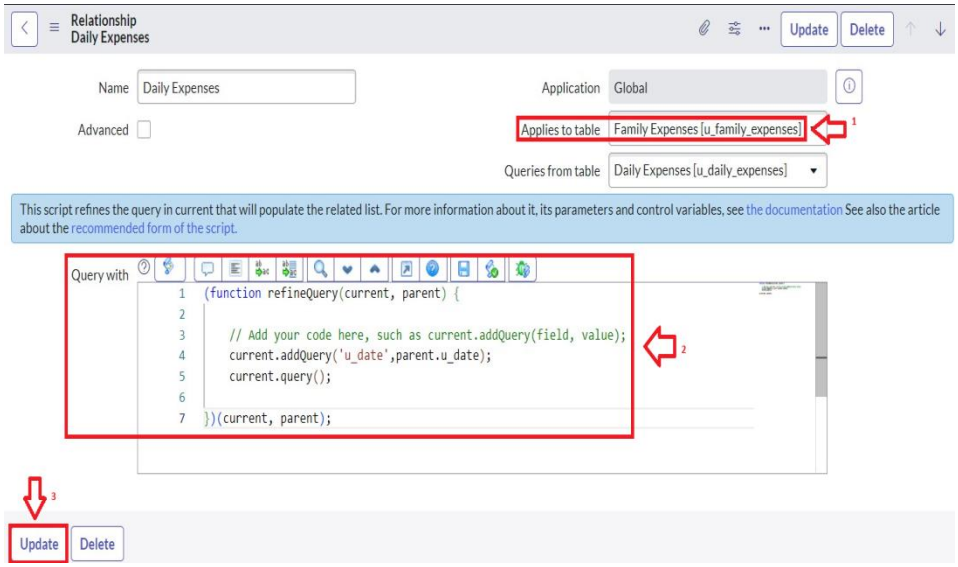
1. **Go to All >> In the filter search for Relationships >> Open Relationships.**
2. **In that, open Daily Expenses Relationship.**
3. **For Applies to table : Select Family Expenses.**
4. **In Query with : write the below Query.**

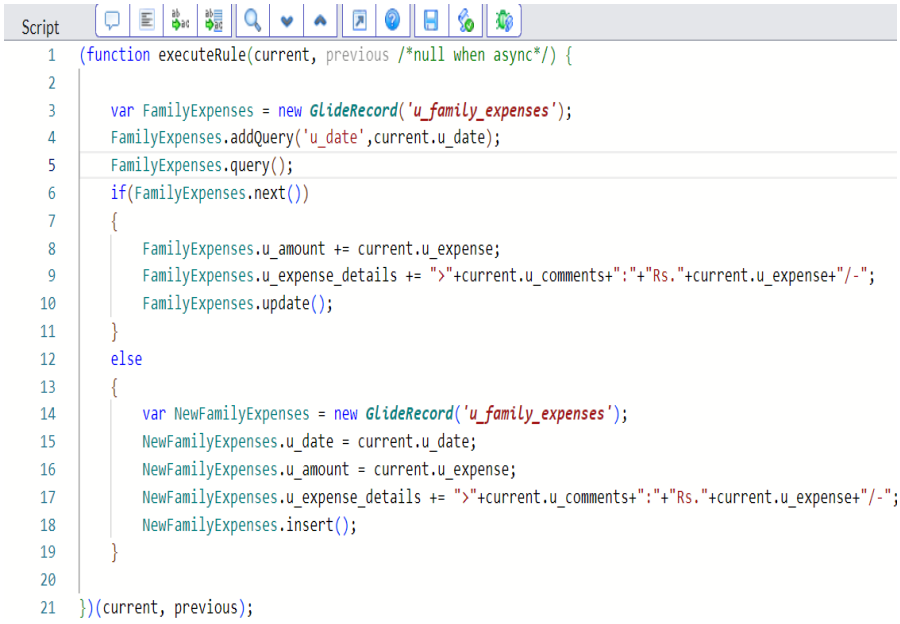
```
(function refineQuery(current, parent) {

// 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.





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