Calculating Family Expenses Using Servicenow

Team id: NM2025TMID13210

Team Members: 04

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Team Member 1: RAJESH G

Team Member 2: RAJESH M

Team Member 3: KARTHIK S

Objective: To build a ServiceNow-based expense management app that records, categorizes, and analyzes family expenses with dashboards and alerts.

Skills: ServiceNow app development, Flow Designer, reporting & dashboards, JavaScript, database design, and basic UI/UX.

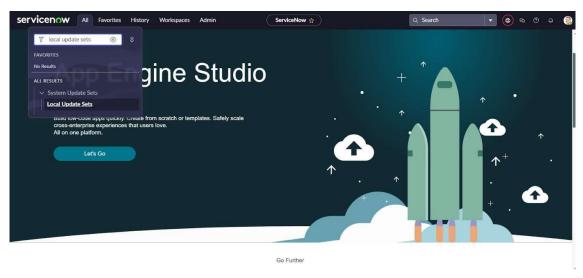
TASK INITIATION

Milestone 1: Users

Activity 1: Create Users

Creation of New Update Set

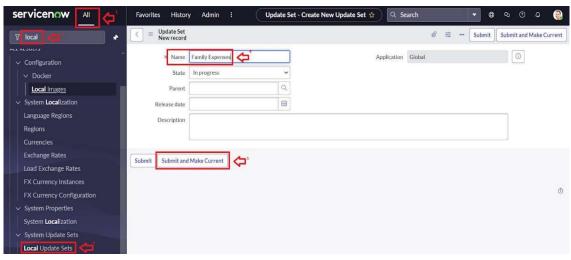
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

Name: Family Expenses

3. Then click on Submit and Make current.



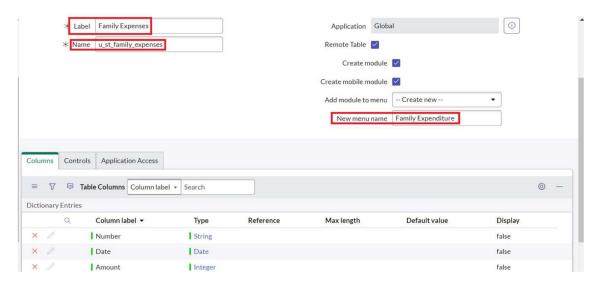
Creation of Family Expenses Table

- 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

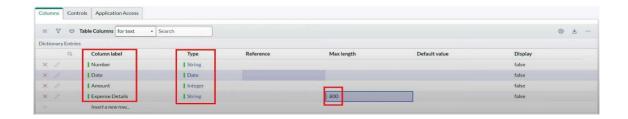
Type: Integer

- 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.



- 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

- 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

Prefix: MFE



9. Click on Submit.

Configure the Form

- 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

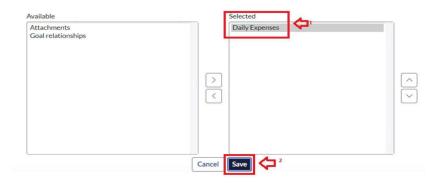
Applies to table: Select Family Expenses

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



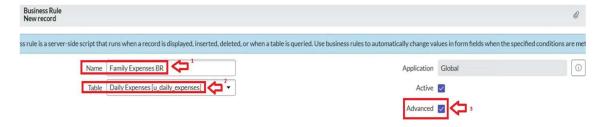
Creation of Business Rules

- 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:

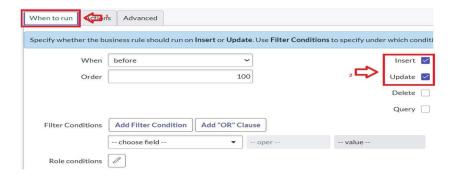
Name: Family Expenses BR

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 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);

```
(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())
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');
           NewFamilyExpenses.u date = current.u date;
15
16
            NewFamilyExpenses.u_amount = current.u_expense;
            NewFamilyExpenses.u_expense_details += ">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
17
18
19
   })(current, previous);
```

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

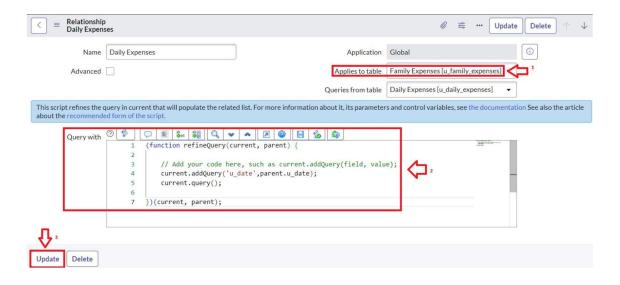
Configure the Relationship

- 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: Whether for business or personal use, servicenow proves to be powerful tool for structured expense management.