### CALCULATING FAMILY EXPENSES USING SERVICENOW

**Team ID**: NM2025TMID13903

Team Size: 5

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#### **Problem Statement:**

Managing and tracking family expenses manually often leads to errors, lack of transparency, and difficulty in budgeting. Using ServiceNow, we can build an application to record, categorize, and analyze family expenses for better financial planning.

#### **Objectives:**

Automate the process of tracking family expenses.

Provide real-time reports and dashboards on spending patterns.

Categorize expenses (Food, Rent, Utilities, Education, Entertainment, etc.).

Ensure better decision-making with ServiceNow workflows and analytics.

#### Skills:

With these ServiceNow skills, you can design an app that records family expenses, auto-calculates totals, and provides dashboards for financial planning.

TASK INITIATION

Task 1:Creation of new update set

**Activity:** 

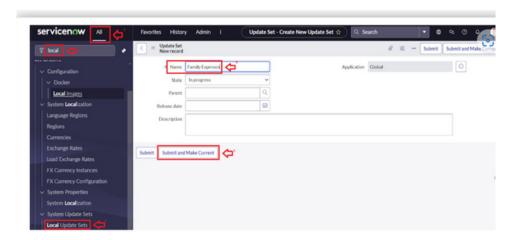
Creation of new update set

#### Creation Of New Update Set

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



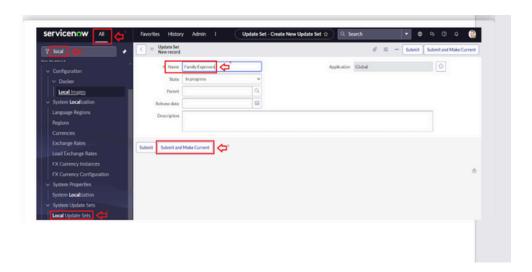
- 2. Enter the Details as:
  - Name: Family Expenses
- 3. Then click on Submit and Make current.



#### Task 2: Creation of table

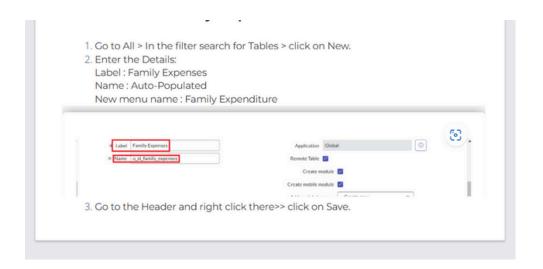
Activity: Creation of new update set

# 1. Go to All >> In the filter search for Local Update set > click on New. Servicen: Will search for Studio Go Furber 2. Enter the Details as: Name: Family Expenses 3. Then click on Submit and Make current.



#### Task 3:Creation of table

#### Activity 1:Creation of family expenses table



#### Activity 2: Creation of column filed

#### 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:

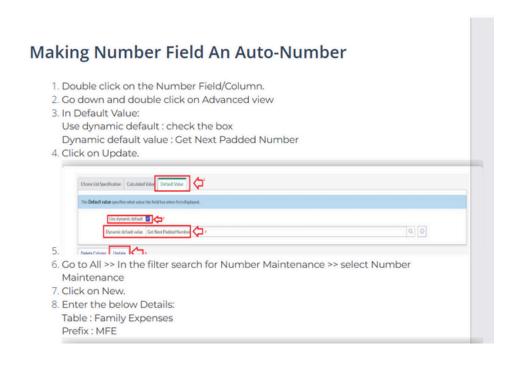
Column label: Expense Details

Type: String Max length: 800



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

#### Activity 3: Making number field an auto-number





9. Click on Submit.

#### Activity 4: Configure the form



#### Task 4: Creation of table (Daily Expenses)

#### Activity 1: 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 Expendit	ure	
> Label Daily Expenses 4	Application Global	0
* Name   u,daily_expenses   😝 2	Create module	
Extends table Q.	Create mobile module <a> Application M</a>	fenu
	Add module to menu Family Expenditure	

#### Activity 2: Creation of columns (Field)

#### 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

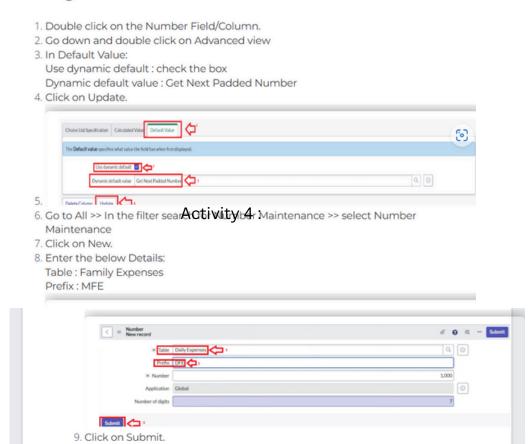
10. Give the details as:

Column label: Comments

Type: String Max length: 800

#### Activity 3: Making number field auto-number

#### Making Number Field An Auto-Number



#### Activity 4: Configure the form

#### **Configure The Form**

- 1. Go to All >> In the filter search for Daily Expenses >> Open Daily Expenses
- 2. Click on New
- 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.



- 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
- 7. Click on Save.

#### Task 5: Creation of relationship

Activity: Creation of relation ship between family expenses and daily expenses tables

#### 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.
- Enter the details: Name: Daily Expenses

Applies to table: Select Family Expenses Daily Expenses: Select Daily Expenses

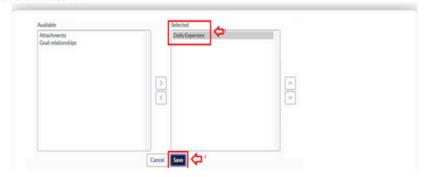
4. Click Save.

Task 6: Configuring related list on family expenses

Activity 1: Configuring related list on family expenses

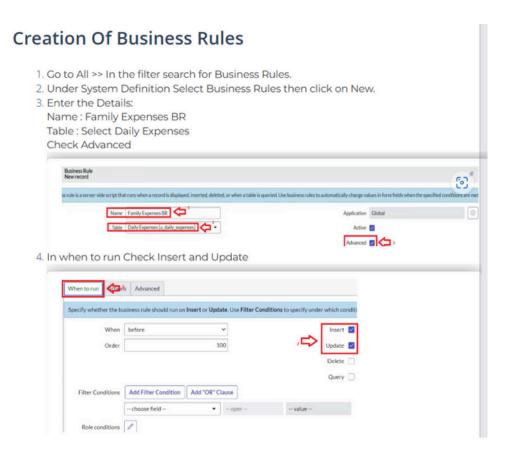
#### **Configuring Related List On Family Expenses**

- 1. Go to All >> In the filter search for Family Expenses >> Open Family Expenses
- 2. Click on New
- 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



#### Task 7: Creation of business rules

#### Activity: Creation of business rules



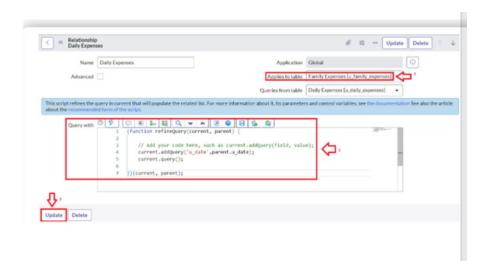
```
5. In Advance(we write the code): Write the below code >>
  (function executeRule(current, previous /*null when async*/) {
  var FamilyExpenses = new GlideRecord('u_family_expenses');
  FamilyExpenses.addQuery('u_date',current.u_date);
  FamilyExpenses.query();
  if(FamilyExpenses.next())
  FamilyExpenses.u_amount += current.u_expense;
  FamilyExpenses.u_expense_details +=
  ">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
  FamilyExpenses.update();
  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 | Some | Some
```

#### Task 8: Configure the relationship

#### Activity: Configure the relationship

## 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:

Implementing family expense calculation in ServiceNow provides a structured and automated way to manage and analyze household financial data. By leveraging ServiceNow's capabilities such as forms, workflows, reporting, and dashboards, families can track income and expenses in real time, categorize spending, and generate insights for better financial planning. This not only reduces manual effort but also enhances accuracy, transparency, and decision-making in managing family budgets.