

Project Title : “Calculating Family Expenses Using Service Now”

Team ID : NM2025TMID19820

Team Size : 4

Team Leader : SANJAI P

Team member : OMPRASATH Y

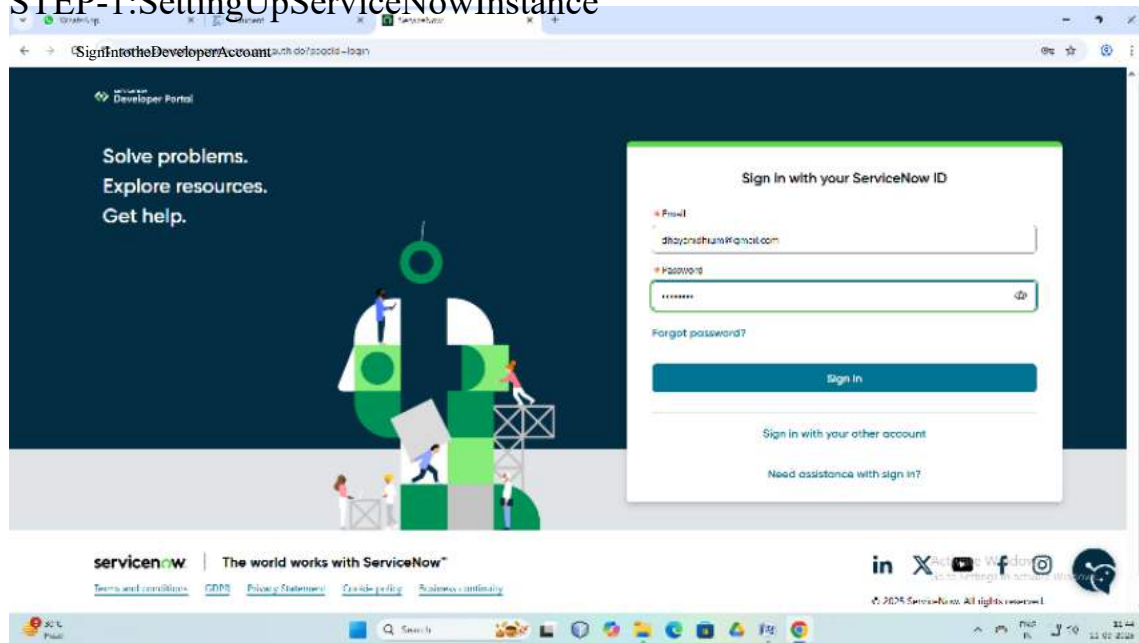
Team member : SAHATH R

Team member : UDHAYA G

Acknowledgement:

We sincerely express our gratitude to our faculty and mentors for their guidance and support throughout this project. Their encouragement, feedback, and valuable insights have been crucial in shaping this work. We also extend our appreciation to the ServiceNow developer community and the resources that helped us implement this project successfully.

STEP-1:SettingUpServiceNowInstance



Request a Personal Developer Instance (PDI)

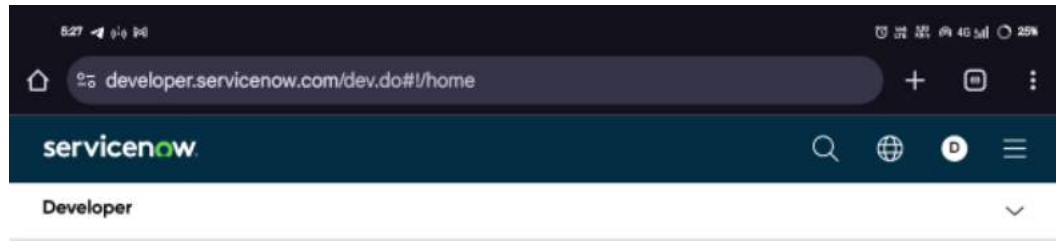
1. Click on the profile icon at the top right corner.
2. Select 'Manage Instance' or go directly to the link.
3. Click 'Request Instance'.
4. Choose the latest version (default selection is recommended).
5. Click 'Request' again.

Access your Instance

6. You'll get an instance URL like: "https://developer.servicenow.com"
7. Click 'Open Instance' to launch it.

8. Your admin credentials (username & password) will be shown - copy and save them securely.

LogintoYourInstance



Step-2:CreationofNewUpdateSet

KeyObjective:Track,group,andmanageconfigurationchangesorcustomizationmadeina ServiceNow instance, so they can be migrated or deployed to another instance(like from development to test or production)in a controlled and organized way.1

ServiceNow Update Set - Create Family Expense...

Name: Family Expenses Application: Global

State: In progress

Release date: [empty]

Description: [empty]

Buttons: Submit, Submit and Make Current

Step 3: Creation of Table:

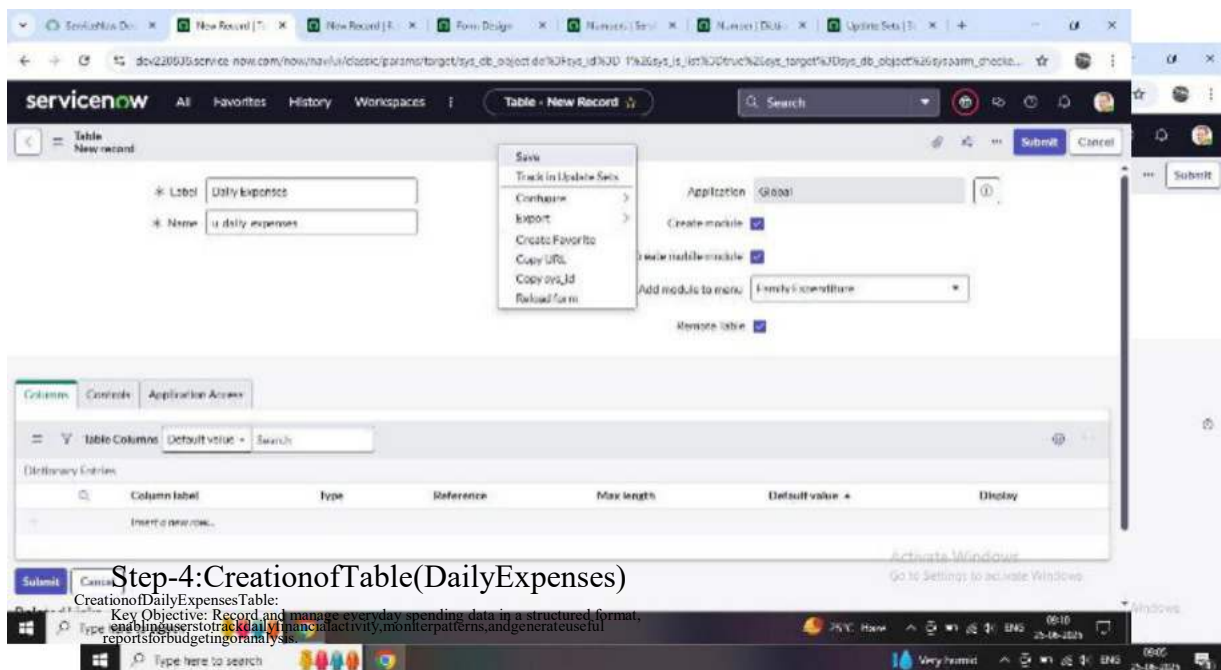
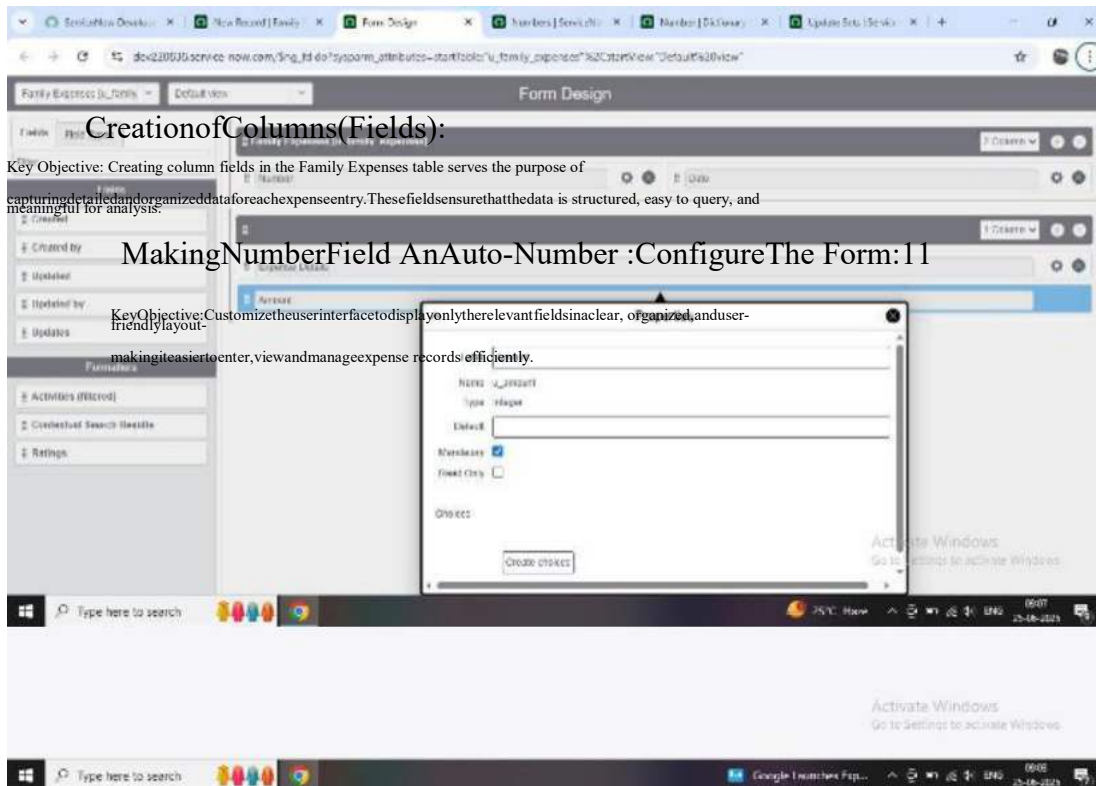
ServiceNow Table - New Record

Name: u st family expenses

Table Columns: [empty]

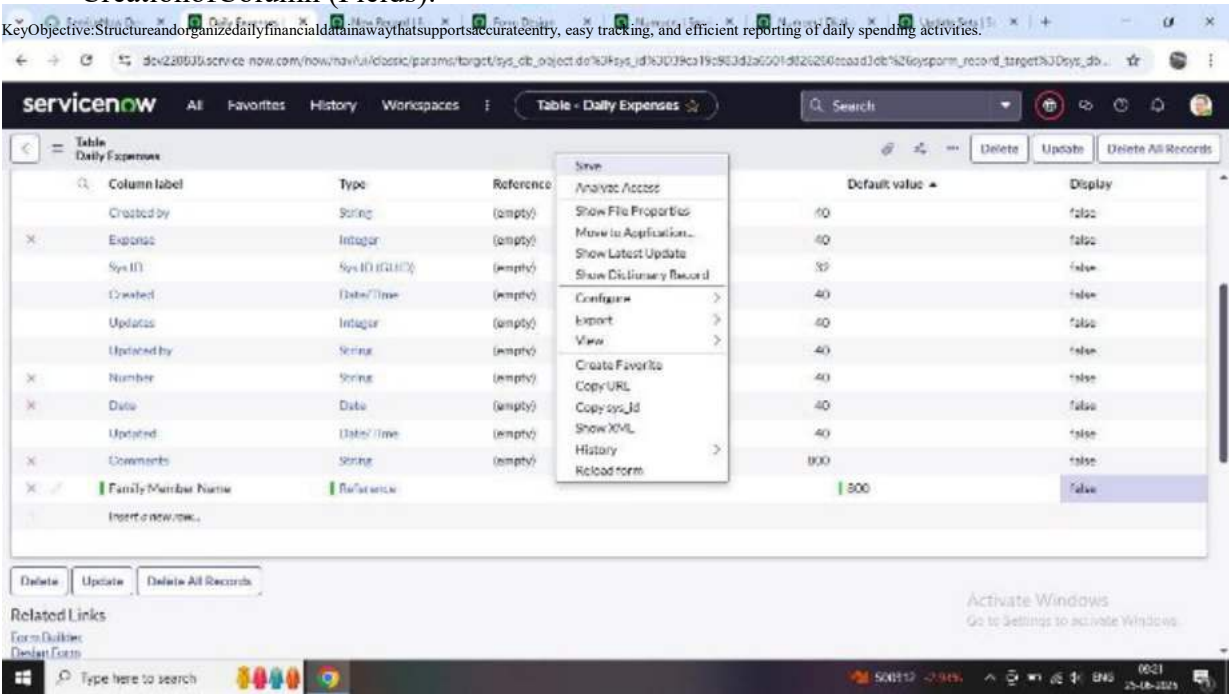
Dictionary Entries:

Column label	Type	Reference	Max length	Default value	Display
Insert a new row...					



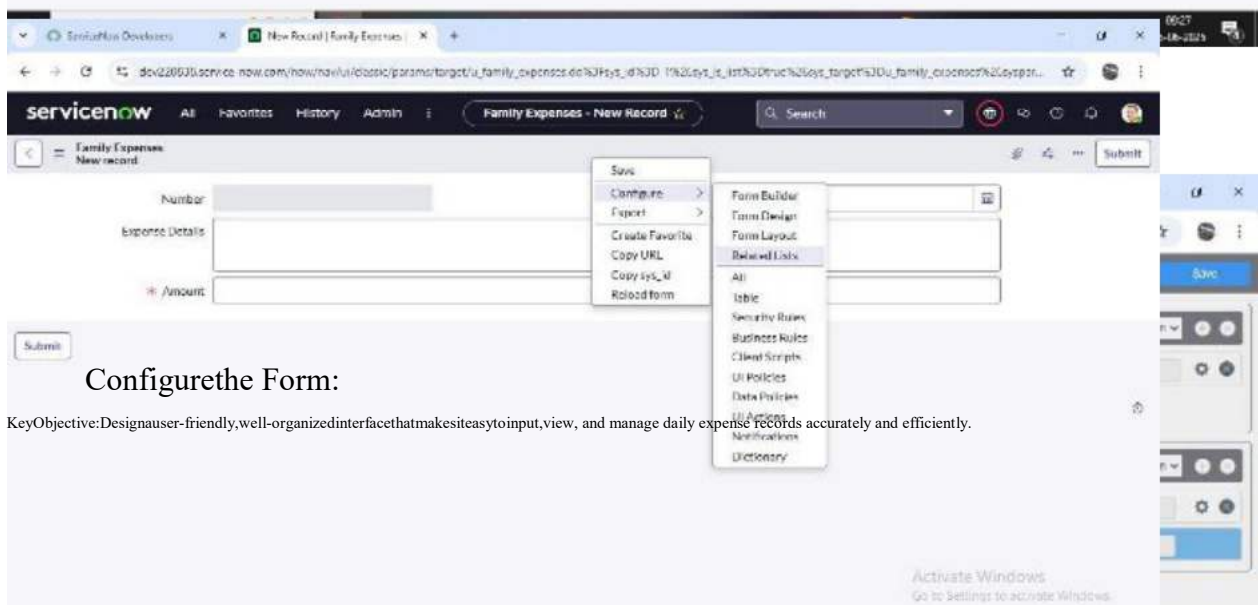
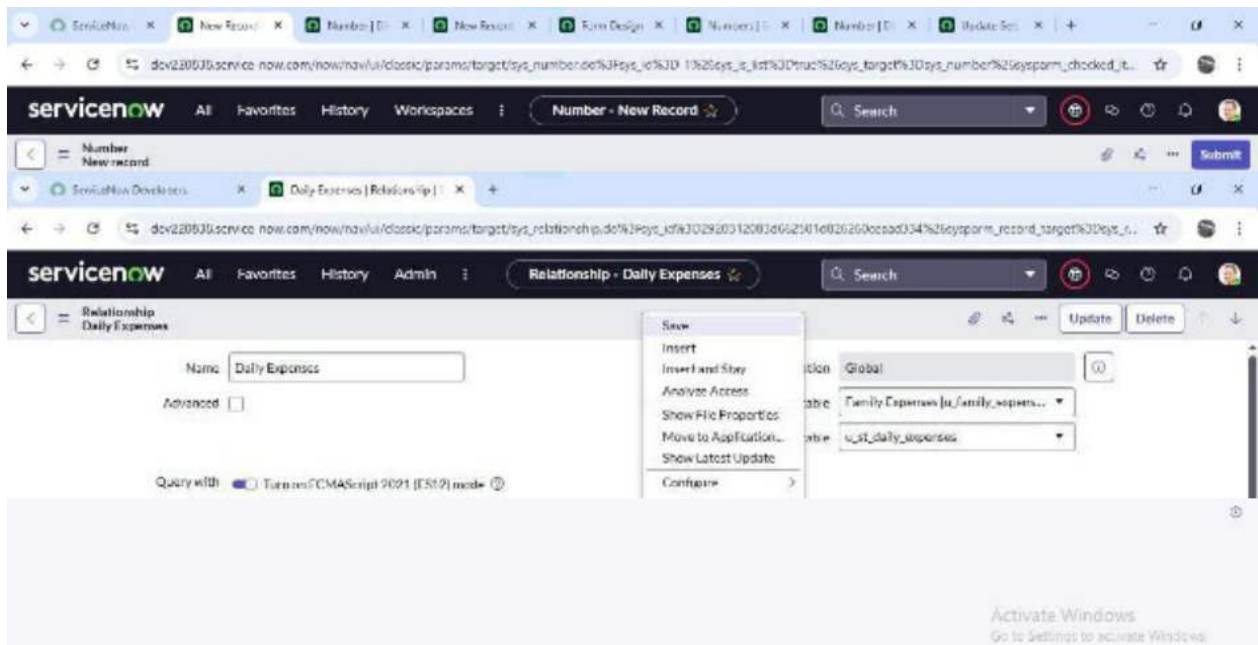
Creation of Column (Fields):

Key Objective: Structure and organize daily financial data in a way that supports accuracy, easy tracking, and efficient reporting of daily spending activities.



Making Number Field An Auto-Number:

Key Objective: Automatically generate a unique and sequential identifier for each daily expense record, ensuring easy tracking, organization, and reference for individual entries without manual effort.

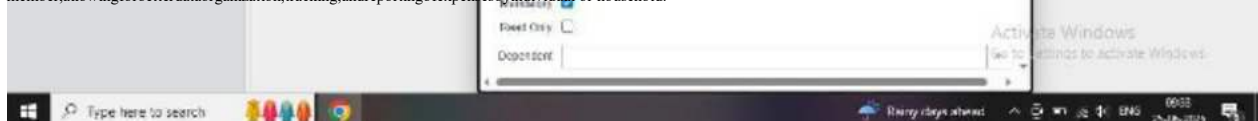


Configure the Form:

Key Objective: Design a user-friendly, well-organized interface that makes it easy to input, view, and manage daily expense records accurately and efficiently.

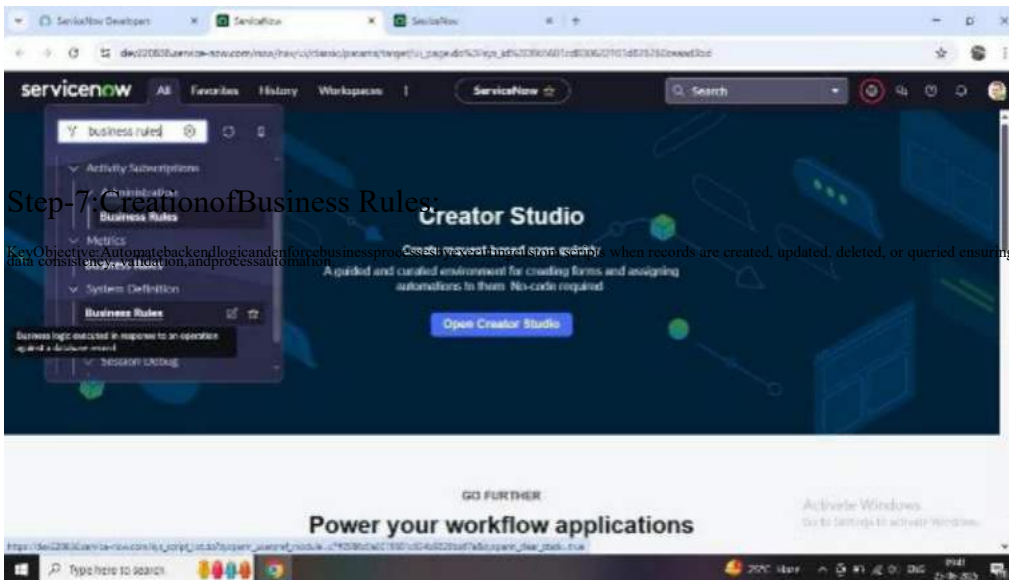
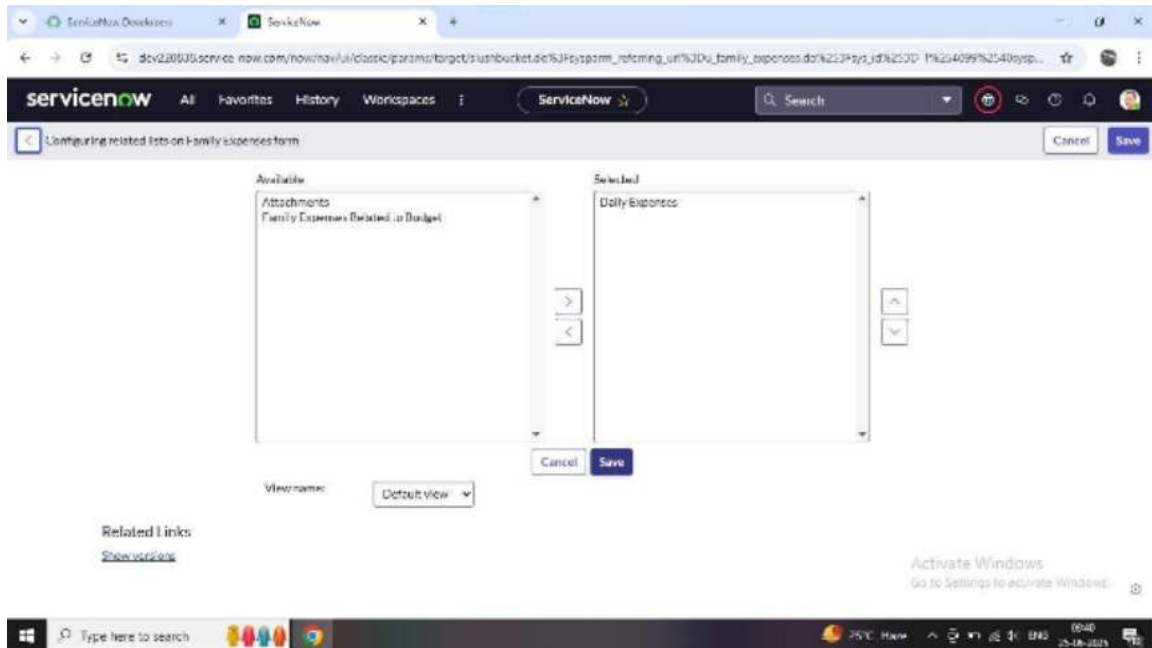
Step-5: Creation of Relationship Between Family Expenses And Daily Expenses Tables

Key Objective: Establish a logical link between each daily expense and the corresponding family member, allowing for better data organization, tracking, and reporting of expenses by individual or household.



Step-6: Configuring Related List on Family Expenses:

Key Objective: Display all related Daily Expenses record for each family member directly within their family expenses form, enabling users to view and manage associated expense entries in one place.



Step-7: Creation of Business Rules

Key Objective: Automate backend logic and enforce business processes by executing business rules when records are created, updated, deleted, or queried ensuring data consistency, validation, and process automation.

ServiceNow Developers | New Record | Business Rule | ServiceNow

dev220838.service-now.com/now/nav/ui/classic/params/target/sys_script.do%3Fsys_id%3D-1%26sys_is_list%3Dtrue%26sys_target%3Dsys_script%26sysparm_checked_items...

Business Rule - New Record

Condition

Script ☒ Turn on ECMAScript 2021 (ES12) mode

```
1 (function executeRule(current, previous /*null when async*/) {
2   var familyExpenses = new GlideRecord('u_family_expenses');
3   familyExpenses.addQuery('u_date',current.u_date);
4   familyExpenses.query();
5   if(familyExpenses.next())
6   {
7     familyExpenses.u_amount += current.u_expense;
8     familyExpenses.u_expense_details += ">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
9     familyExpenses.update();
10  }
11  else
12  {
13    var newFamilyExpenses = new GlideRecord('u_family_expenses');
14    newFamilyExpenses.u_date = current.u_date;
15    newFamilyExpenses.u_amount = current.u_expense;
16    newFamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + "Rs." + current.u_expense + "/-";
17    newFamilyExpenses.insert();
18  }
```

Submit

Activate Windows
Go to Settings to activate Windows.

Type here to search

Nifty smicap +0.85%

ENG 09:40 25-06-2025

ServiceNow Developers | New Record | Business Rule | ServiceNow

dev220838.service-now.com/now/nav/ui/classic/params/target/sys_script.do%3Fsys_id%3D-1%26sys_is_list%3Dtrue%26sys_target%3Dsys_script%26sysparm_checked_items...

Business Rule - New Record

Name: Family Expenses BR

Table: Daily Expenses [u_daily_expenses]

Application: Global

Active ☒

Advanced ☒

When to run: **Actions** | Advanced

When: before

Order: 100

Filter Conditions:

-- choose field -- -- oper -- -- value --

Role conditions

Insert ☒

Update ☒

Delete ☐

Query ☐

Activate Windows
Go to Settings to activate Windows.

Type here to search

RELIANCE +1.12%

ENG 09:44 25-06-2025

Step-8:Configurethe Relationship:

KeyObjective:Logicallyconnecttworelatedtablessodatacanbelinked,referenced,and accessed easily supporting better data structure, consistency, and reporting.

The screenshot shows the ServiceNow interface for configuring a relationship. The page title is 'Relationship - Daily Expenses'. The 'Name' field is set to 'Daily Expenses'. The 'Application' is 'Global'. The 'Applied to table' is 'Family Expenses [u_family_expens...]' and the 'Queries from table' is 'Daily Expenses [u_daily_expenses]'. The 'Query with' section shows a JavaScript function:

```
1 (function refineQuery(current, parent) {  
2  
3   // Add your code here, such as current.addquery(field, value);  
4   current.addquery('u_date', parent.u_date);  
5   current.query();  
6  
7 })(current, parent);
```

Buttons for 'Update' and 'Delete' are visible. The bottom of the screen shows the Windows taskbar with the date '25-10-2023'.

Step-9:Conclusion:

The screenshot shows a project conclusion page. The title is 'Conclusion'. The text reads: '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 record, track, and manage their expenses in a centralized and streamlined manner.' The page is part of a larger document, as indicated by the sidebar on the left with a list of steps: 'Expenses Using ServiceNow', 'Setting Up ServiceNow Instance', 'Creation of New Incident', 'Creation of Table', 'Creation of Relationship', 'Creation of Relationship', 'Configuring Related List on Family Expenses', 'Creation of Business Rule', 'Configure the Relationship', and 'Conclusion'. The bottom of the screen shows the Windows taskbar with the date '25-10-2023'.