

# **Calulating family expenses using Servicenow**

**TEAM ID : NM2025TMID05646**

**TEAM SIZE :4**

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**Perfomance testing**

**Setting up ServiceNow Instance:**

The image shows two screenshots of the ServiceNow platform. The top screenshot is from the 'Developer' section at [developer.servicenow.com/dev.do#/manage-instance](https://developer.servicenow.com/dev.do#/manage-instance). It displays the status of three studios: App engine studio, Creator studio, and ServiceNow studio, all marked as 'Installed'. It also shows the instance URL (<https://dev279651.service-now.com/>), user name ('admin'), current password ('\*\*\*\*\*'), and user role ('Admin'). A sidebar titled 'Useful links' includes links to the PDI Guide, FAQs, and developer advocate blog. The bottom screenshot is from the ServiceNow Studio at [https://dev279651.service-now.com/nav/ui/classic/params/target/ui\\_page.do%3Fsys\\_id%3Dfc57592f83f03210429b6260cead34c](https://dev279651.service-now.com/nav/ui/classic/params/target/ui_page.do%3Fsys_id%3Dfc57592f83f03210429b6260cead34c). It features a large graphic illustrating the Studio environment, a 'ServiceNow Studio' heading, and a 'GO FURTHER' button. Both screenshots include a 'Activate Windows' message at the bottom right.

## Creation of New Update Set:

Screenshot of the ServiceNow Update Sets list screen:

The URL is [https://dev279651.service-now.com/nav/ui/classic/params/target/sys\\_update\\_set\\_list.do](https://dev279651.service-now.com/nav/ui/classic/params/target/sys_update_set_list.do)

**Update Sets** list table:

Name	Application	State	Installed from	Created	Created by	Parent	Batch Base
Default	Global	In progress		2025-09-08 20:57:55	system	(empty)	(empty)
Family Expenses	Global	In progress		2025-10-30 23:24:28	admin	(empty)	(empty)

**Related Links**

- [Merge Update Sets](#)

Activate Windows  
Go to Settings to activate Windows.

Screenshot of the ServiceNow Update Set - Family Expenses edit screen:

The URL is [https://dev279651.service-now.com/nav/ui/classic/params/target/sys\\_update\\_set.do%3Fsys\\_id%3D8504caa383383210429b6260ceaad3a7%26sysparm\\_record\\_tar...](https://dev279651.service-now.com/nav/ui/classic/params/target/sys_update_set.do%3Fsys_id%3D8504caa383383210429b6260ceaad3a7%26sysparm_record_tar...)

**Update Set - Family Expenses**

**Update**

Form fields:

* Name: Family Expenses	Application: Global
State: In progress	Created: 2025-10-30 23:24:28
Parent: (empty)	Created by: admin
Release date: (empty)	Merged to: (empty)
Install date: (empty)	
Installed from: (empty)	
Description: (empty)	

**Related Links**

- [Merge With Another Update Set](#)
- [Scan Update Set](#)

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Customer Updates (80) | Update Set Logs | Child Update Sets | Install History

# Creation of Table :

Screenshot of ServiceNow interface showing the creation of a new table named "Family Expenses".

**Table - Family Expenses**

The table has the following properties:

- Label:** Family Expenses
- Name:** u\_family\_expenses
- Application:** Global
- Type:** Remote Table

**Table Columns**

Column label	Type	Reference	Max length	Default value	Display
Number	String	(empty)	40	javascript:getNextObjNumberPadded();	false Activate Windows Go to Settings to activate Windows.
Date	Date	(empty)	40		false
Amount	Integer	(empty)	40		false

**Tables**

Label	Name	Extends table	Extensible	Updated
Family Expenses	u_family_expenses	(empty)	false	2025-10-31 00:17:16
.NET Application	cmdb_ci_appl_dot_net	Application	false	2025-09-08 20:48:16
A/B Testing Evaluation	evaluation	(empty)	false	2025-09-08 20:40:27
A/B Testing Evaluation Execution	evaluation_execution	(empty)	false	2025-09-08 20:40:27
A/B Testing Evaluation Parameter	evaluation_parameter	(empty)	false	2025-09-08 20:40:27
A/B Testing Evaluation Parameter Result	evaluation_parameter_result	(empty)	false	2025-09-08 20:40:27
A10 Load Balancer	cmdb_ci_lb_a10	Load Balancer	false	2025-09-08 20:48:01
Access Analyzer Query	sn_access_analyzer_request	(empty)	false	2025-09-08 21:53:07
Access Comparison Request	sn_access_analyzer_access_comparison_req...	(empty)	false	2025-09-08 21:53:06
Access Control	sys_security_acl	Application File	false	2025-09-08 20:35:31
Access Result	sn_access_analyzer_access_result	(empty)	false	2025-09-08 21:53:07
Access Roles	sys_security_acl_role	Application File	false	2025-09-08 20:35:30

# Creation of Family Expenses Table:

The screenshot shows the ServiceNow interface for configuring the 'Family Expenses' table. The top navigation bar includes tabs for WhatsApp, ServiceNow Dev, Family Expenses, Student, and Inbox. The main title is 'Table - Family Expenses'. The table columns are listed below:

Column label	Type	Reference	Max length	Default value	Display
Number	String	(empty)	40	javascript:getNextObjNumberPadded();	false
Date	Date	(empty)	40		false
Amount	Integer	(empty)	40		false
Date	Date	(empty)	40		false
Expense Details	String	(empty)	800		false
Sys updated by	String	(empty)	40		false
Sys mod count	String	(empty)	40		false

Buttons at the bottom include Delete, Update, and Delete All Records. A note says 'Insert a new row...'. Below the table, there's a section for Related Links and a Windows taskbar at the bottom.

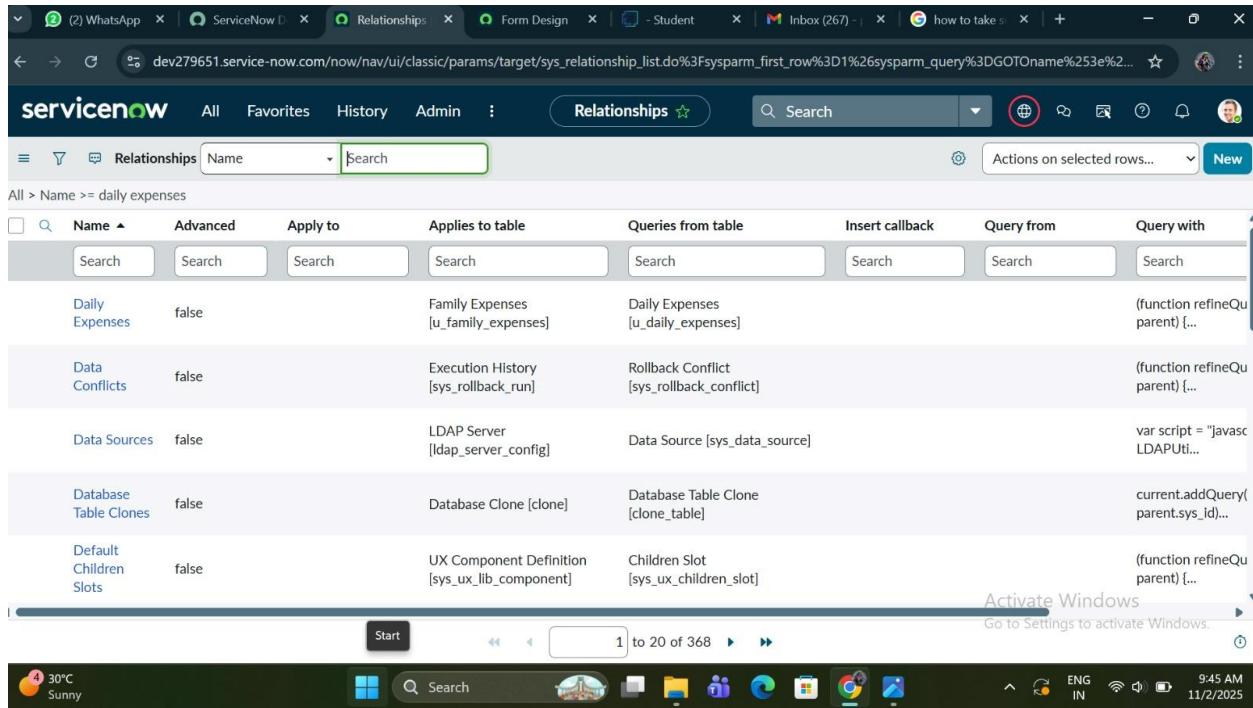
## Configure the Form:

The screenshot shows the ServiceNow Form Design page for the 'Family Expenses' table. The top navigation bar includes tabs for WhatsApp, ServiceNow Dev, Create Expenses, Form Design, Student, and Inbox. The main title is 'Form Design'. The left sidebar shows Fields and Field Types, with Fields expanded to show Sys mod count, Sys updated by, and a New Section section containing Expense Details. The right panel displays the form layout:

- A 2-column grid with fields Number and Amount.
- A New Section section with a 2-column grid containing Expense Details and Date.

Buttons at the bottom include Delete, Update, and Delete All Records. A note says 'Insert a new row...'. Below the form, there's a section for Related Links and a Windows taskbar at the bottom.

# Creation of Relationship between Family Expenses and Daily Expenses tables :



The screenshot shows the ServiceNow Relationships list page. The URL is dev279651.service-now.com/now/nav/ui/classic/params/target/sys\_relationship\_list.do?sysparm\_first\_row=1&sysparm\_query=3DGOTOname%253e%2... . The page title is Relationships. The search bar contains 'Search'. The table has columns: Name, Advanced, Apply to, Applies to table, Queries from table, Insert callback, Query from, and Query with. The rows show various relationships:

Name	Advanced	Apply to	Applies to table	Queries from table	Insert callback	Query from	Query with
Daily Expenses	false		Family Expenses [u_family_expenses]	Daily Expenses [u_daily_expenses]			(function refineQu parent) [...]
Data Conflicts	false		Execution History [sys_rollback_run]	Rollback Conflict [sys_rollback_conflict]			(function refineQu parent) [...]
Data Sources	false		LDAP Server [ldap_server_config]	Data Source [sys_data_source]			var script = "javasc LDAPUti..."
Database Table Clones	false		Database Clone [clone]	Database Table Clone [clone_table]			current.addQuery( parent.sys_id)...)
Default Children Slots	false		UX Component Definition [sys_ux_lib_component]	Children Slot [sys_ux_children_slot]			(function refineQu parent) [...]

# Creation of Business Rules :

Business Rule - New Record

Name: Family Expenses BR

Application: Global

Table: Daily Expenses [u\_daily\_expenses]

Active:

Advanced:

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 }  
5 )
```

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Business Rule - New Record

```
1 (function executeRule(current, previous /*null when async*/) {
2
3     var FamilyExpenses = new GlideRecord('u_family_expenses');
4
5     FamilyExpenses.addQuery('u_date',current.u_date);
6
7     FamilyExpenses.query();
8
9     if(FamilyExpenses.next())
10    {
11
12        FamilyExpenses.u_amount += current.u_expense;
13
14        FamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + "Rs." + current.u_expense + "/"
15        +
16
17        FamilyExpenses.update();
18
19    }
20
21    else
22}
```

## Configure the Relationship :

Screenshot of a ServiceNow interface showing a script editor for a relationship query.

The title bar shows multiple tabs: WhatsApp, ServiceNow D, Daily Expense, Form Design, - Student, Inbox (267) -, how to take s... .

The main header includes "servicenow", "Relationship - Daily Expenses", a search bar, and various navigation buttons like "Run Query Diagnostics", "Update", and "Delete".

The script editor contains the following code:

```
Query with  Turn on ECMAScript 2021 (ES12) mode ⓘ  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮  
1 (function refineQuery(current, parent) {  
2     // Add your code here, such as current.addQuery(field, value);  
3     (function refineQuery(current, parent) {  
4         current.addQuery('u_date',parent.u_date);  
5         current.query();  
6     })(current, parent);  
7     })(current, parent);  
8     })(current, parent);  
9     })(current, parent);  
10    })(current, parent);  
11    })(current, parent);  
12    })(current, parent);  
13    })(current, parent);  
14    })(current, parent);
```

Below the editor are buttons for "Run Query Diagnostics", "Update", and "Delete".

A status bar at the bottom shows "Activate Windows" and "Go to Settings to activate Windows." It also displays system information: Run Point Scan, 31°C Sunny, Search, Microsoft Edge, File Explorer, People, Task View, Google Chrome, Taskbar icons, ENG IN, 9:59 AM, 11/2/2025.