

Calulating family expenses using Servicenow

TEAM ID : NM2025TMID05646

TEAM SIZE :4

TEAM LEADER : Rasika .P

TEAM MEMBER: Ishwaryah .J

TEAM MEMBER : Janani shri. K

TEAM MEMBER : Shobana .S

Perfomance testing

Setting up ServiceNow Instance:

developer.servicenow.com/dev.do#/manage-instance

servicenow

Developer

Manage my instance (dev279651) ¹

Actions ▾

Status Online Refresh

App engine studio ✓ Installed Creator studio ✓ Installed ServiceNow studio ✓ Installed

Your Current Version
Zurich
Latest release

Instance URL
<https://dev279651.service-now.com/>

User name
admin

Current password

User role
Admin

Useful links

- [Personal Developer Instance \(PDI\) Guide](#)
- [PDI FAQs](#)
- [Managing your PDI](#)
- [Developer advocate blog](#)

Plugins for your instance (46)

Sort: A-Z Search

Activate Windows
Go to Settings to activate Windows.

dev279651.service-now.com/now/nav/ui/classic/params/target/ui_page.do%3Fsys_id%3Dfc57592f83f03210429b6260cead34c

servicenow All Favorites History Admin ServiceNow Search

ServiceNow Studio

Build smarter and deploy faster
Access all the tools you need in one unified, intuitive development environment.

[Open ServiceNow Studio](#)

Activate Windows
Go to Settings to activate Windows.

GO FURTHER

Creation of New Update Set:

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_update_set_list.do

servicenow All Favorites History Admin Update Sets Search

Update Sets Name Search Actions on selected rows... New

All

| <input type="checkbox"/> | Name | Application | State | Installed from | Created | Created by | Parent | Batch Base |
|--------------------------|-----------------|-------------|-------------|----------------|---------------------|------------|---------|------------|
| <input type="checkbox"/> | Default | Global | In progress | | 2025-09-08 20:57:55 | system | (empty) | (empty) |
| <input type="checkbox"/> | Family Expenses | Global | In progress | | 2025-10-30 23:24:28 | admin | (empty) | (empty) |

Related Links

[Merge Update Sets](#)

1 to 2 of 2

30°C Sunny

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_update_set.do%3Fsys_id%3D8504caa383383210429b6260cead3a7%26sysparm_record_tar...

servicenow All Favorites History Update Set - Family Expenses Search

Update Set Family Expenses Update

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

Update

Related Links

[Merge With Another Update Set](#)

[Scan Update Set](#)

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

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Creation of Tabel :

WhatsApp | ServiceNow Developer | Family Expenses | Student | Inbox (267) - pat... | how to take screen... | +

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_db_object.do%3Fsys_id%3Dd1058a2783383210429b6260ceaad377%26sysparm_record_targ... ☆

servicenow All Favorites History Table - Family Expenses Search [Globe Icon] [Share Icon] [Print Icon] [User Icon]

Table Family Expenses [Link Icon] [Settings Icon] [More Icon] [Delete] [Update] [Delete All Records] [Sort Icon]

A table is a collection of records in the database. Each record corresponds to a row in a table, and each field on a record corresponds to a column on that table. Applications use tables and records to manage data and processes. [More Info](#)

* Label Family Expenses Application Global ⓘ

* Name u_family_expenses Remote Table ☐

Columns Controls Application Access

Table Columns for text Search [Globe Icon] [Share Icon] [Print Icon] [User Icon] 1 to 7 of 7 [New]

Dictionary Entries

| 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 |

30°C Sunny 9:33 AM 11/2/2025

WhatsApp | ServiceNow Developer | Tables | ServiceNow | Student | Inbox (267) - pat... | how to take screen... | +

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_db_object_list.do%3Fsysparm_query%3Dsys_update_nameISNOTEMPTY%255EEQ ☆

servicenow All Favorites History Workspaces Tables Search [Globe Icon] [Share Icon] [Print Icon] [User Icon]

Tables Label Search [Globe Icon] [Share Icon] [Print Icon] [User Icon] Actions on selected rows... [New]

All > Update name is not empty

| 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 21:53:30 |
| Access... | cmdb_ci_appl_dot_net | Application | false | 2025-09-08 20:48:16 |

1 to 20 of 5,766 [Globe Icon] [Share Icon] [Print Icon] [User Icon]

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Creation of Family Expenses Table:

WhatsApp | ServiceNow Developer | Family Expenses | - Student | Inbox (267) - pat... | how to take screen... | +

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_db_object.do%3Fsys_id%3Dd1058a2783383210429b6260cead377%26sysparm_record_list...

servicenow All Favorites History Table - Family Expenses Search

Table Family Expenses Delete Update Delete All Records

Table Columns for text Search 1 to 7 of 7 New

Dictionary Entries

| 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 |
| Insert a new row... | | | | | |

Delete Update Delete All Records

Activate Windows
Go to Settings to activate Windows.

Related Links

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Search

9:38 AM 11/2/2025

Configure the Form:

(2) WhatsApp | ServiceNow Developer | Create Expense | Form Design | - Student | Inbox (267) | how to take screen... | +

dev279651.service-now.com/\$ng_fd.do?sysparm_attributes=startTable:"u_family_expenses"%2CstartView:"Default%20view"

Family Expenses [u_family_expenses] Default view Form Design

Fields Field Types

Filter

Fields

- Sys mod count
- Sys updated by

Formatters

- Activities (filtered)
- Contextual Search Results
- Ratings

Family Expenses [u_family_expenses] 2 Column

- Number
- Amount

New Section 2 Column

- Expense Details
- Date

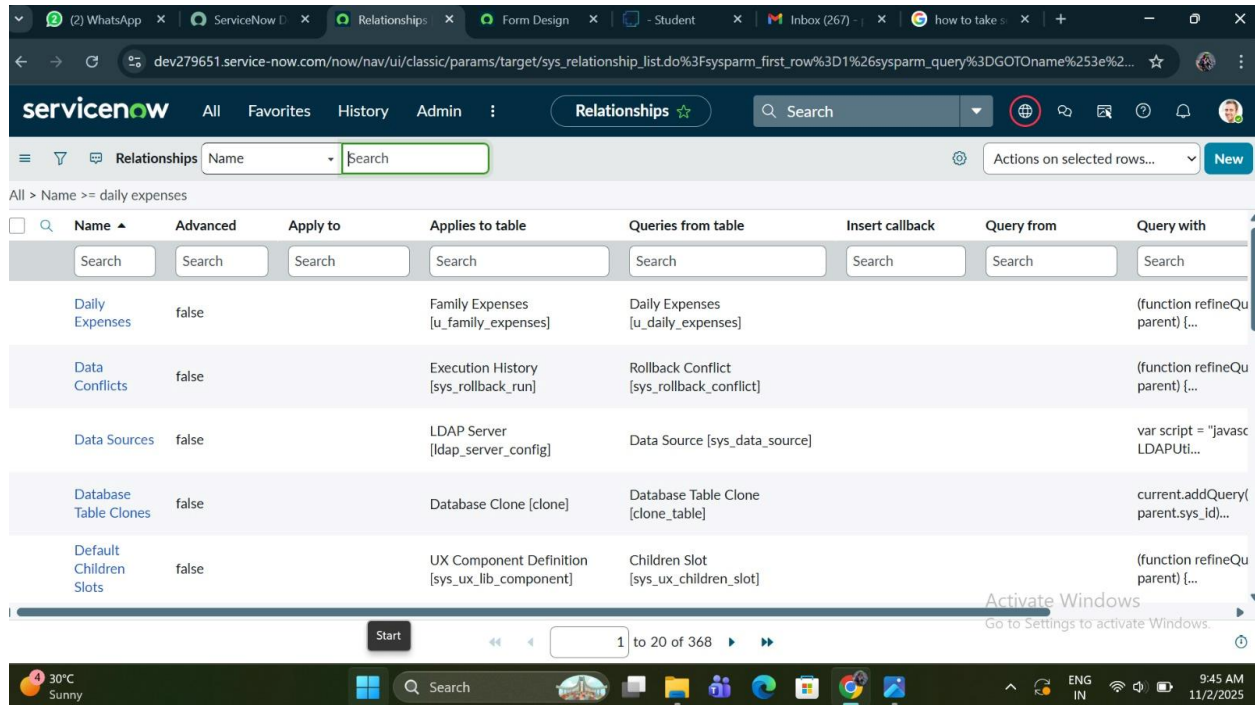
Activate Windows
Go to Settings to activate Windows.

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Search

9:43 AM 11/2/2025

Creation of Relationship between Family Expenses and Daily Expenses tables :



The screenshot shows the ServiceNow web interface. The browser address bar displays the URL: `dev279651.service-now.com/now/nav/ui/classic/params/target/sys_relationship_list.do%3Fsysparm_first_row%3D1%26sysparm_query%3DGOTOname%253e%2...`. The ServiceNow header includes the logo, navigation tabs (All, Favorites, History, Admin), a search bar, and a 'Relationships' tab. Below the header, there is a filter bar with 'Name' and a search input. The main content area displays a table of relationships. The table has columns: Name, Advanced, Apply to, Applies to table, Queries from table, Insert callback, Query from, and Query with. The table lists several relationships, including 'Daily Expenses', 'Data Conflicts', 'Data Sources', 'Database Table Clones', and 'Default Children Slots'. The 'Daily Expenses' relationship is highlighted. The bottom of the screen shows a Windows taskbar with the date and time: 9:45 AM, 11/2/2025.

| 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 :

dev279651.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_c...

servicenow All Favorites History Business Rule - New Record Search

Business Rule
New record

specified conditions are met. [More Info](#)

Name: Family Expenses BR Application: Global

Table: Daily Expenses [u_daily_expens... Active: ☒ Advanced: ☒

When to run: Actions Advanced

Condition:

Script: ☐ Turn on ECMAScript 2021 (ES12) mode

```
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);
```

dev279651.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_c...

servicenow All Favorites History Business Rule - New Record Search

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 :

(2) WhatsAppServiceNowDaily ExpenseForm DesignStudentInbox (267)how to take

dev279651.service-now.com/now/nav/ui/classic/params/target/sys_relationship.do%3Fsys_id%3Dd44e267833c3210429b6260ceaad30b%26sysparm_record_tar...

servicenowAllFavoritesHistoryRelationship - Daily ExpensesSearch

RelationshipDaily ExpensesRun Query DiagnosticsUpdateDelete

recommended form of the script.

Query withTurn on ECMAScript 2021 (ES12) mode

1234567891011121314

```
(function refineQuery(current, parent) {  
    // Add your code here, such as current.addQuery(field, value);  
(function refineQuery(current, parent) {  
  
    current.addQuery('u_date',parent.u_date);  
    current.query();  
})(current, parent);  
})(current, parent);
```

Run Query DiagnosticsUpdateDelete

Activate Windows
Go to Settings to activate Windows.

Related Links
Run Point Scan

31°C SunnySearchENG IN9:59 AM
11/2/2025