

Date	20 Feb 2026
Team ID	LTVIP2026TMIDS24859
Project Name	Calculate Family Expenses using Service Now
Mentor Name	Dr Shaik Salma Begum
Maximum Marks	10 Marks

Calculate Family Expenses

Objective

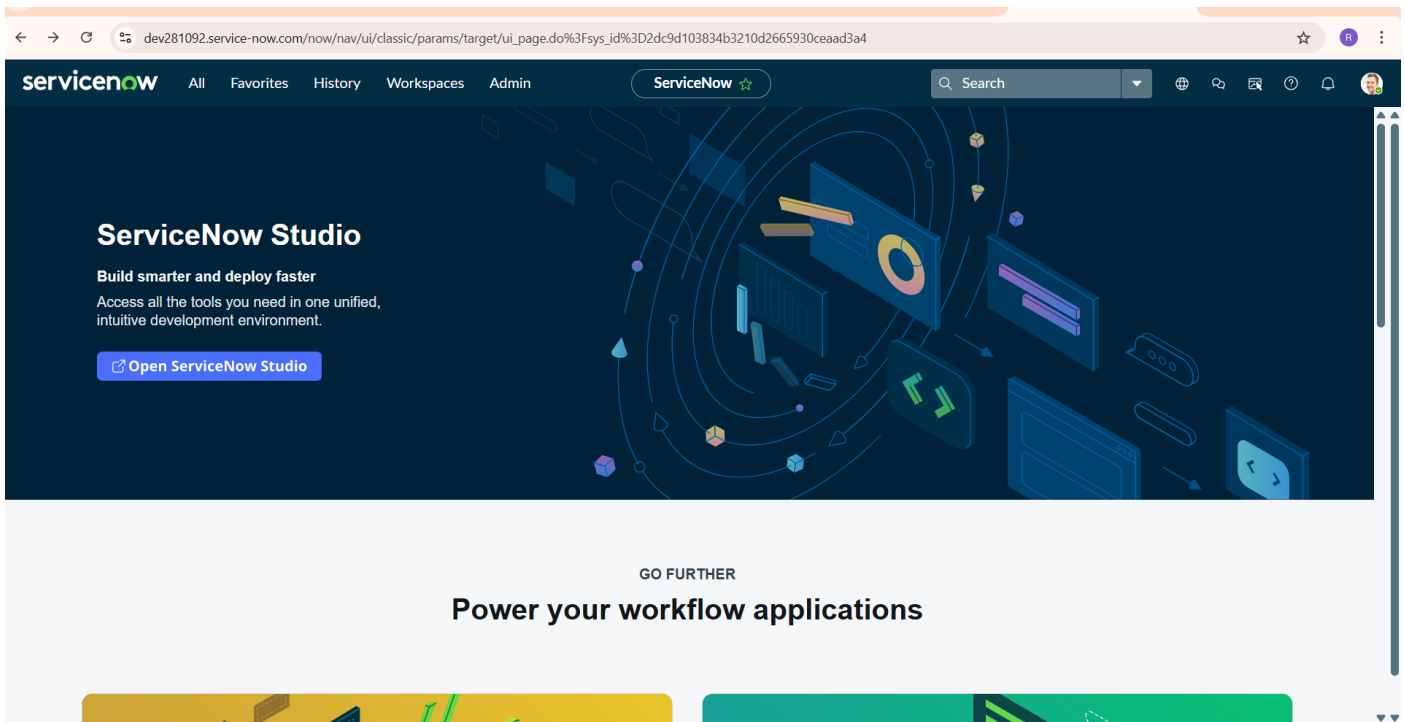
The objective of performance testing is to ensure that the Family Expense Management System performs efficiently when handling multiple expense records. It verifies that data insertion, business rules, relationships, and automatic calculations work correctly without delays or errors.

Milestone 1: Setting Up ServiceNow Instance:

- Sign up on developer.servicenow.com and create a developer account.
- Navigate to the Personal Developer Instance section and request a new instance.
- Fill out the required information and submit the request.
- Instance details (URL, username, password) will be sent via email.
- Log in to the instance using the provided credentials.
- The instance is ready for development and customization.

The screenshot shows the 'Manage my instance (dev281092)' page in the ServiceNow Developer portal. The page includes a top navigation bar with 'Developer', 'Home', 'Learn', 'Reference', 'Guides', and 'Connect'. On the right, there are buttons for 'Manage my instance' and 'Start building'. The main content area is divided into several sections:

- Status:** Shows the instance is 'Online' with a 'Refresh' button. Below this, it lists installed components: Build Agent, ServiceNow Studio, and App engine studio, all marked as 'Installed'.
- Instance details:** Displays the Instance URL (<https://dev281092.service-now.com/>), User name (admin), Current password (masked), and User role (Admin).
- Useful links:** Provides links to the Personal Developer Instance (PDI) Guide, PDI FAQs, Managing your PDI, and the Developer advocate blog.
- Plugins for your instance (46):** A section with filters for 'All activation statuses' and 'All demo data statuses'. It shows a list of plugins, including 'Activate all Software Asset', 'Cloud Management', and 'Customer Service Virtual Agent', all of which are currently 'Not activated'.



Milestone 2: Creation of Table (Family Expenses):

- Navigate to All in the application navigator.
- In the filter search bar, type Tables and select it from the results.
- Click on the New button to create a new table.
- In the form, provide the following details:
- Label: Family Expenses
- Name: Auto-populated
- New menu name: Family Expenditure
- Navigate to the header section of the form, right-click on the header, and select Save.

Update Set - Family Expenses

Update

Related Links

[Merge With Another Update Set](#)

[Scan Update Set](#)

Customer Updates (55) Update Set Logs Child Update Sets Install History

Created	Type	View	Target name	Updated by	Remote update set	Action
2026-02-19 06:29:43	Application Menu		Family Expenditure	admin	(empty)	INSERT_OR_UPDATE

Milestone 3: Creation of Fields (Family Expenses):

After saving the table scroll down

- Create the following fields
 - Number : String
 - Date : Date
 - Amount : Integer
 - Expense Details : String
- Click Save

ServiceNow Table - Family Expenses

* Label: Family Expenses

* Name: u_family_expenses

Application: Global

Remote Table: ☐

Columns Controls Application Access

Table Columns for text Search

Dictionary Entries

Column label	Type	Reference	Max length	Default value	Display
Number	String	(empty)	40	javascript:getNextObjNumberPadded();	false
Updated	Date/Time	(empty)	40		false
Created by	String	(empty)	40		false
Created	Date/Time	(empty)	40		false
Updated by	String	(empty)	40		false
Updates	Integer	(empty)	40		false
Sys ID	Sys ID (GUID)	(empty)	32		false
Expense Details	String	(empty)	800		false
Amount	Integer	(empty)	40		false
Date	Date	(empty)	40		false

Milestone 4: Creation of Table (Daily Expenses):

- Navigate to Tables in the application navigator.
- Click on New.
- Provide the following details:
 - Label: Daily Expenses
 - Name: Auto-populated
 - Add menu to: Family Expenditure
- Click Save.

Create the following fields:

- Number : String
- Date : Date
- Expense : Integer
- Family Member Name : Reference (Family Expenses)
- Comments : String

Click Save

dev281092.service-now.com/now/nav/ui/classic/params/target/sys_dictionary.do%3Fsys_id%3D08dc5f9783833210d2665930ceaad315%26sysparm_record_list%3DnameONE%2BINu_family_expenses%2...

servicenow All Favorites History Workspaces Dictionary Entry - Number

Dictionary Entry Number View: Advanced*

* Table: Family Expenses [u_family_expenses]

* Type: String

* Column label: Number

* Column name: u_number

* Max length: 40

Application: Global

Active: ☒

Function field: ☐

Read only: ☒

Mandatory: ☐

Display: ☐

Alters the behavior of a field or functionality that depends on the field. [More Info](#)

Attributes

Choice List Specification Calculated Value **Default Value**

The **Default value** specifies what value the field has when first displayed.

Use dynamic default: ☒

Dynamic default value: Get Next Padded Number

Number New record

* Table: Family Expenses

Prefix: MFE

* Number: 1,000

Application: Global

Number of digits: 7

Submit

Related Links

[Show Counter](#)

dev181741.service-now.com/now/nav/ui/classic/params/target/sys_db_object.do%3Fsys_id%3Db7812592c3fb6210555b3942b4013186%26sysparm_view%3D%26sysparm_domain%3Dnull%26s...

servicenow All Favorites History Workspaces Admin Table - Daily Expenses

Table Daily Expenses

Delete Update Delete All Records

Updated by	String	(empty)	40	false
Updates	Integer	(empty)	40	false
Updated	Date/Time	(empty)	40	false
Created by	String	(empty)	40	false
Created	Date/Time	(empty)	40	false
Sys ID	Sys ID (GUID)	(empty)	32	false
Number	String			false
Date	Date			false
Expense	Integer			false
Family member	Reference			false
Insert a new row...				

Delete Update Delete All Records

Related Links

[Form Builder](#)

[Design Form](#)

[Layout Form](#)

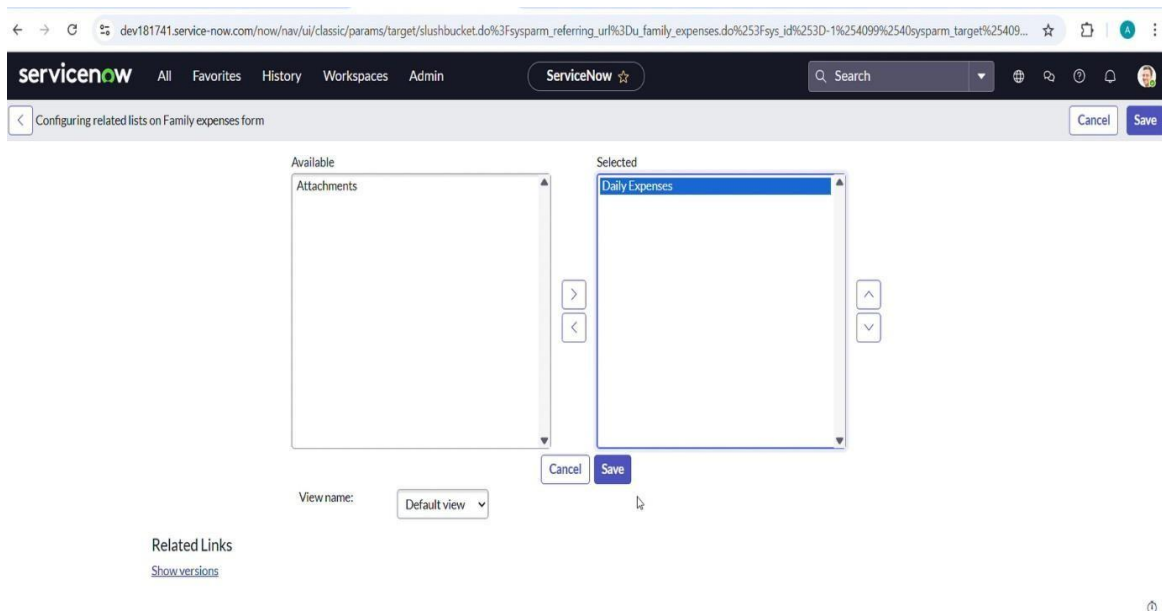
[Layout List](#)

[Show Form](#)

[Show List](#)

Milestone 5: Creation of Relationship:

- Navigate to System Definition → Relationships
- Click New
- Fill the following details:
 - Name: Daily Expenses
 - Applies to Table: Family Expenses
 - Related List Table: Daily Expenses
- Click Submit



Milestone 6: Creation of Business Rule:

- Navigate to System Definition → Business Rules
- Click New
- Fill the following details:
 - Name: Family Expenses Business Rule
 - Table: Daily Expenses
 - When: Before
 - Insert: Checked
 - Update: Checked

- **Add the script:**

```
(function executeRule(current, previous) {
```

```
var family = new GlideRecord('u_family_expenses');
```

```
family.addQuery('u_date', current.u_date);
```

```
family.query();
```

```
if (family.next()) {
```

```
family.u_amount = parseInt(family.u_amount) + parseInt(current.u_expense);
```

```
family.u_expense_details = family.u_expense_details +  
">" + current.u_comments + ":Rs." + current.u_expense;
```

```
family.update();
```

```

    }
else {

    var newFamily = new GlideRecord('u_family_expenses');

    newFamily.initialize();

    newFamily.u_date = current.u_date;

    newFamily.u_amount = current.u_expense;

    newFamily.u_expense_details =
    ">" + current.u_comments + ":Rs." + current.u_expense;

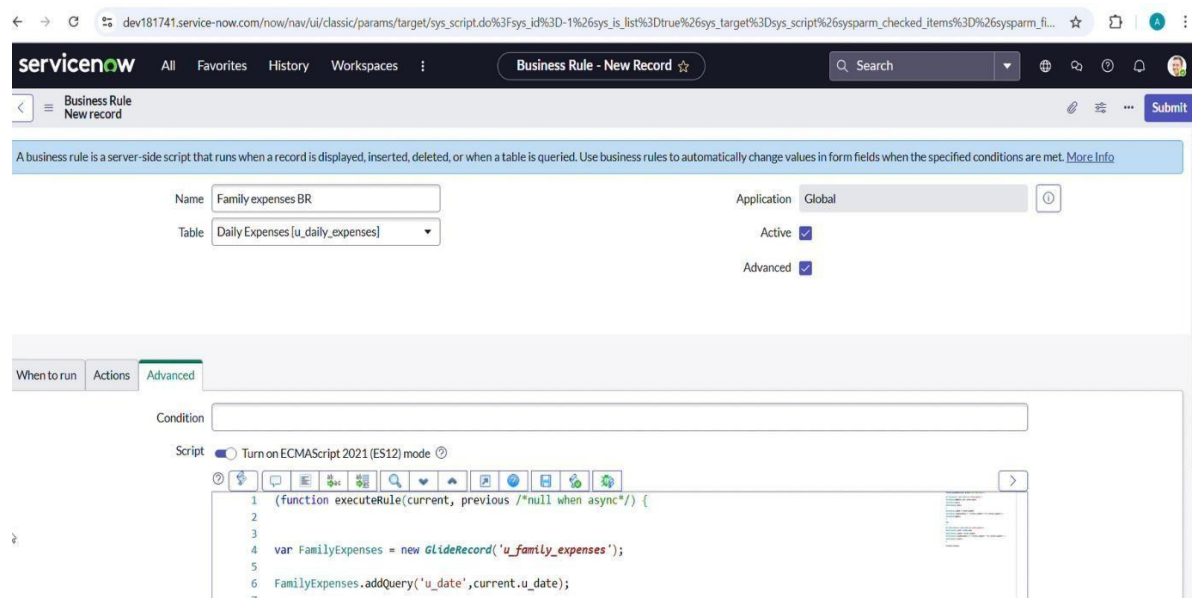
    newFamily.insert();

}

})(current, previous);

```

Click Submit



dev181741.service-now.com/now/nav/ui/classic/params/target/sys_script.do%3Fsys_id%3D-1%26sys_js_list%3Dtrue%26sys_target%3Dsys_script%26sysparm_checked_items%3D%26sysparm_fi...

servicenow All Favorites History Workspaces Business Rule - New Record Search

Business Rule New record

A business rule is a server-side script that runs when a record is displayed, inserted, deleted, or when a table is queried. Use business rules to automatically change values in form fields when the specified conditions are met. [More Info](#)

Name: Family expenses BR Application: Global

Table: Daily Expenses [u_daily_expenses] 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
4 var FamilyExpenses = new GlideRecord('u_family_expenses');
5
6 FamilyExpenses.addQuery('u_date', current.u_date);
7

```

Milestone 7: Creation of Relationship Query Script:

- Navigate to System Definition → Relationships
- Open Daily Expenses relationship
- Check Advanced

- In Query with section, enter:

```
(function refineQuery(current, parent) {

current.addQuery('u_date', parent.u_date);

current.query();

})(current, parent);
```

Click Update

dev181741.service-now.com/now/nav/ui/classic/params/target/sys_relationship.do%3Fsys_id%3D834e116c3fb6210555b3942b4013151%26sysparm_record_target%3Dsys_relationship%26sysp...

servicenow All Favorites History Workspaces Relationship - Daily Expenses Search

Relationship Daily Expenses

Name: Daily Expenses Application: Global

Advanced ☐ Applies to table: Family expenses [u_family_expenses]

Queries from table: Daily Expenses [u_daily_expenses]

This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see the [documentation](#). See also the article about the [recommended form of the script](#).

Query with Turn on ECMAScript 2021 (ES12) mode

```

4 // Add your code here, such as current.addQuery(field, value);
5
6 current.addQuery('u_date', parent.u_date);
7
8 current.query();
9
10
11 })(current, parent);

```

Update Delete

Related Links

Milestone 8: Testing of Family Expenses Application:

- Navigate to All → Daily Expenses
- Click New
- Enter details:
 - Date: 20-02-2026
 - Expense: 500
 - Family Member Name: Select record
 - Comments: Food Expense
- Click Submit
- Verification:
 - Navigate to Family Expenses
 - Check that Amount is automatically updated
 - Check Expense Details is automatically updated
 - Verify related Daily Expenses records are displayed

servicenow

AllFavoritesHistoryWorkspaces

Family Expenses - MFE0001004

Search

<

Family Expenses

MFE0001004

Update

Delete

Number

MFE0001004

* Amount

1,000

* Date

2026-02-19

Expense Details

Food>food:Rs.500/-

Update

Delete