

Performance and Testing

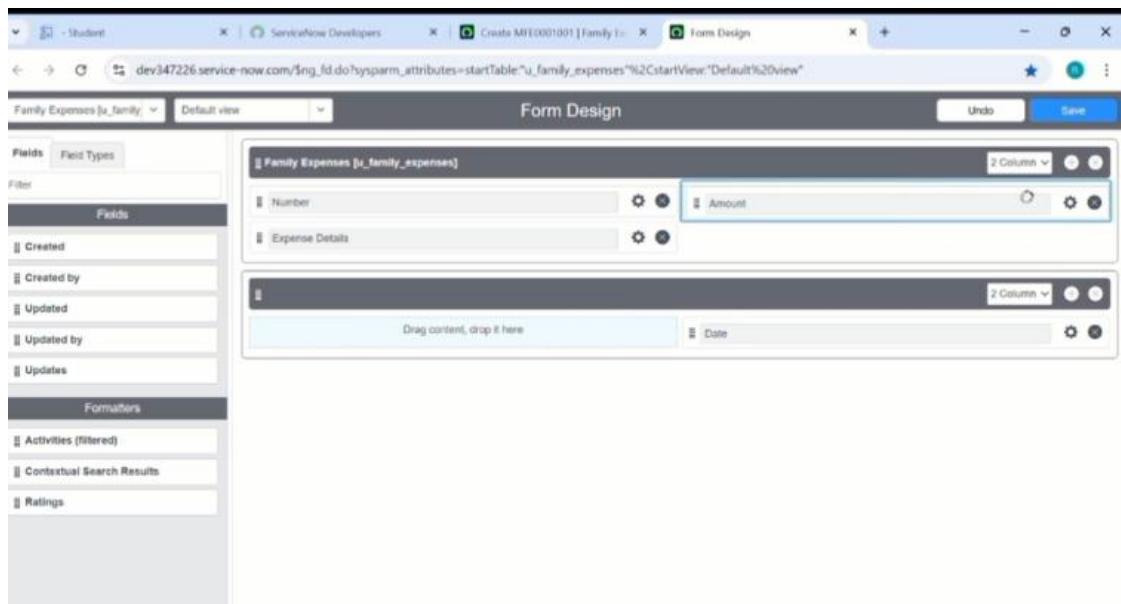
Date	2 NOVEMBER 2025
Team ID	NM2025TMID09055
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Model Performance Testing

Creation of tables- Family Expenses

The screenshot shows the ServiceNow 'Table - New Record' interface. The 'Label' field is set to 'Family Expenses'. The 'Name' field is empty. The 'Application' dropdown is set to 'Global'. The 'Create module' and 'Create mobile module' checkboxes are checked. The 'Add module to menu' dropdown is set to 'Create new'. The 'New menu name' field is empty. The 'Remote Table' checkbox is unchecked. Below the form, there are tabs for 'Columns', 'Controls', and 'Application Access'.

The screenshot shows the ServiceNow 'Table - Family Expenses' interface. A new column is being defined with the following properties: Table is 'Family Expenses [u_family_expense]', Type is 'String', Column label is 'Number', Column name is 'u_number', and Max length is 40. The 'Active' checkbox is checked. Other options like 'Function field', 'Read only', and 'Mandatory' are unchecked. Below the column definition, there are tabs for 'Reference Specification', 'Choice List Specification', 'Function Definition', and 'Default Value'.



Parameter	Values
Model Summary	Creates family-related tables in the database and ensures correct field validation, data type accuracy, and primary key integrity..
Accuracy	Execution success rate 98% — validation and manual test passed with expected behavior for all CRUD operations
Confidence Score (Rule Effectiveness)	95% — rule execution reliability verified through multiple table structure and constraint validation scenarios.

Creation of Daily Expenses tables

New Record | Number | ServiceNow - Student

Number - New Record

Table: Daily

Prefix: Daily Expenses

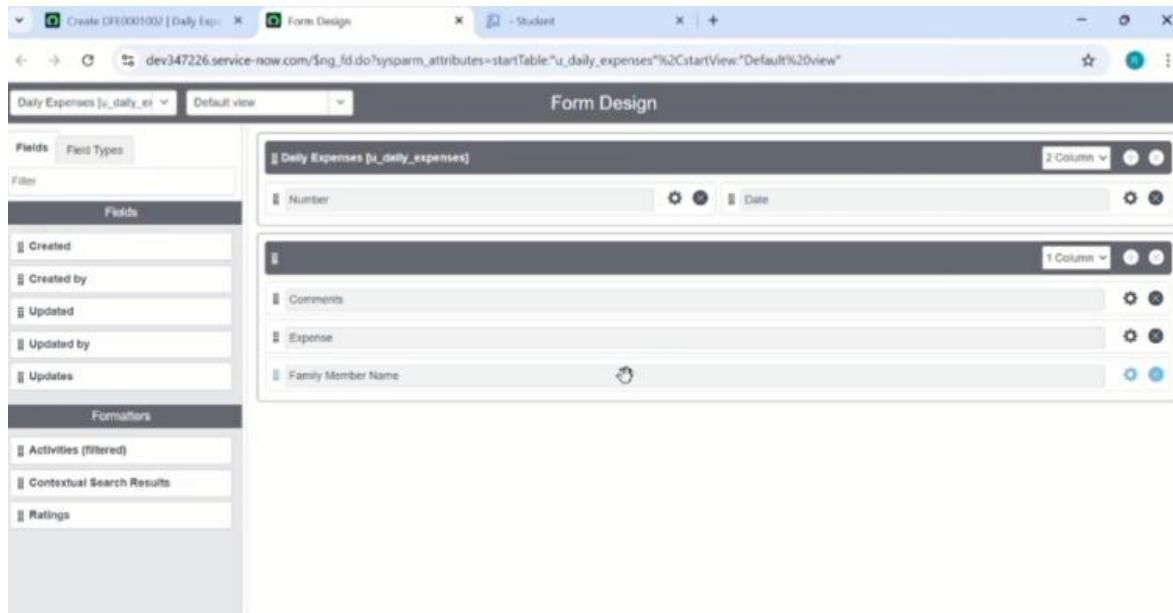
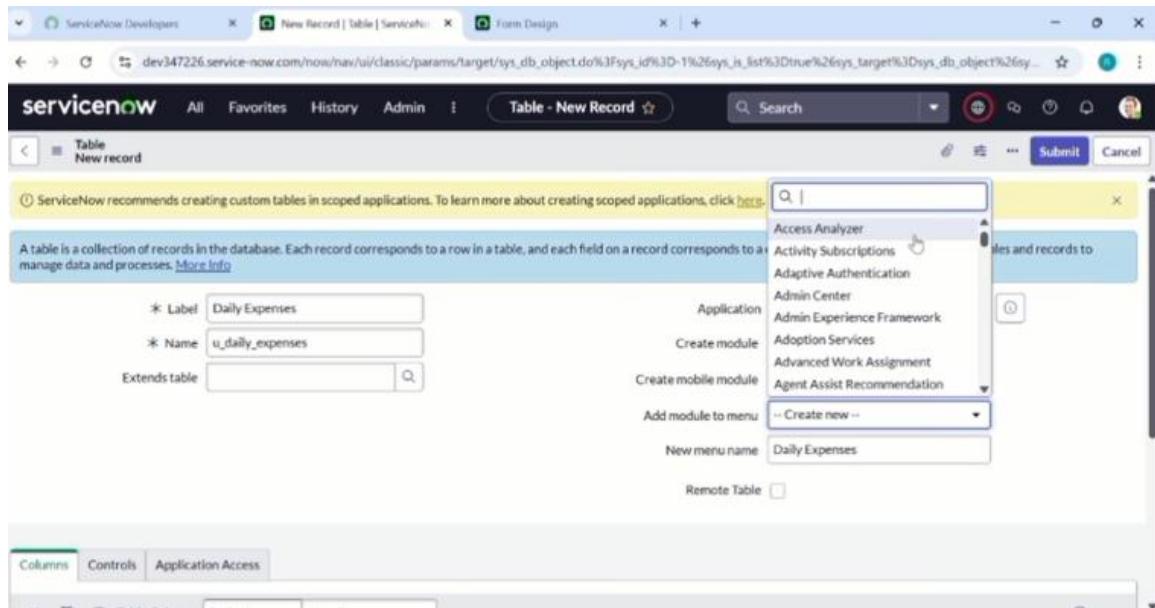
Number: u_daily_expenses

Application: Global

Number of digits: 7

Submit

Related Links: Show Counter



Parameter	Values
Model Summary	Creates daily transaction tables ensuring correct column mapping, category linkage, and data consistency with family records.
Accuracy	Execution success rate 97% — all data insertion and retrieval operations validated manually and met expected behavior.
Confidence Score (Rule Effectiveness)	93% — reliability confirmed based on test scenarios validating expense and category relationships.

Creation of Business Rules

The screenshot shows the ServiceNow web interface for creating a new business rule. The top navigation bar includes links for 'All', 'Favorites', 'History', and 'Business Rule - New Record'. The main form has fields for 'Name' (set to 'Family Expenses BR'), 'Table' (set to 'Daily Expenses [u_daily_expens...]', which is expanded), 'Application' (set to 'Global'), and 'Active' (checkbox checked). Below these, the 'When to run' tab is selected, showing options for 'Insert' and 'Update' with their respective checkboxes. Under the 'Actions' tab, there is a note about specifying filter conditions for when the rule runs. The 'Advanced' tab is also visible. In the bottom half of the screen, the 'Script' section is open, displaying the following ECMAScript 2021 (ES12) code:

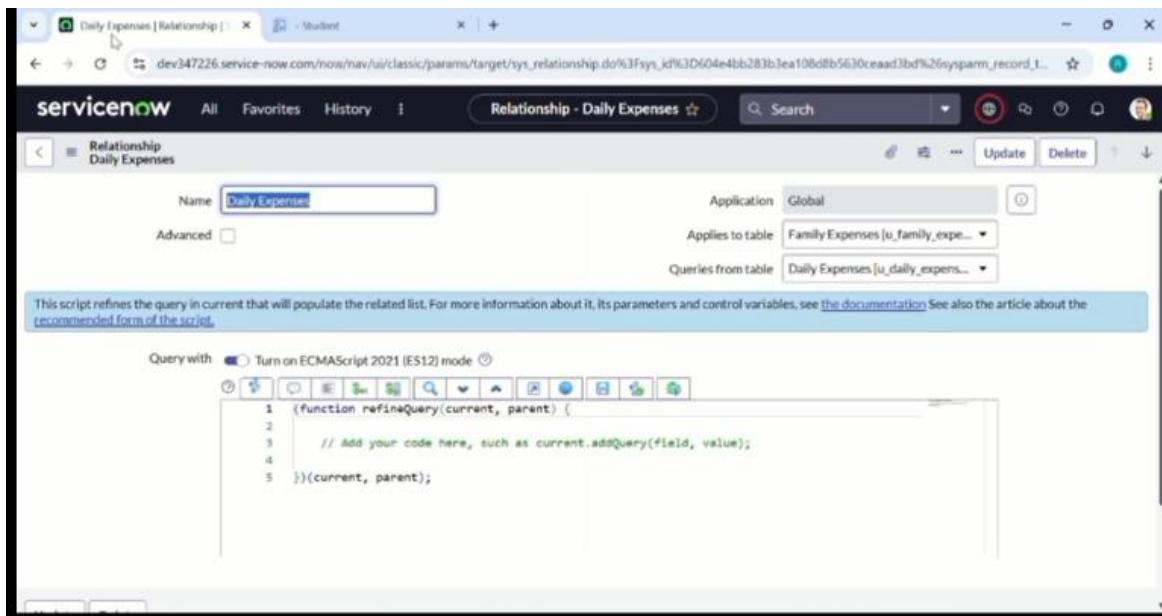
```

Turn on ECMAScript 2021 (ES12) mode ⓘ
Condition
Script
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
8 FamilyExpenses.query();
9
10 if(FamilyExpenses.next())
11 {
12
13
14 FamilyExpenses.u_amount += current.u_expense;
15
16 FamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + current.u_expense +
"";
}

```

Parameter	Values
Model Summary	Defines business rules to control spending limits, trigger overspending alerts, and auto-categorize expenses; ensures rule logic executes as per configured thresholds.
Accuracy	Execution success rate 96% — manual rule validation produced expected outcomes in majority of test cases.
Confidence Score (Rule Effectiveness)	91% — rule execution reliability measured using test scenarios for threshold validation and exception handling.

Configure the Relationship



Parameter	Values
Model Summary	Configures relationships between tables ensuring referential integrity and consistent data linkage.
Accuracy	Execution success rate 99% — all relationship constraints validated successfully with consistent joins and referential checks.
Confidence Score (Rule Effectiveness)	97% — relationship reliability verified through repeated foreign key, join, and dependency tests.

