# Performance and Testing

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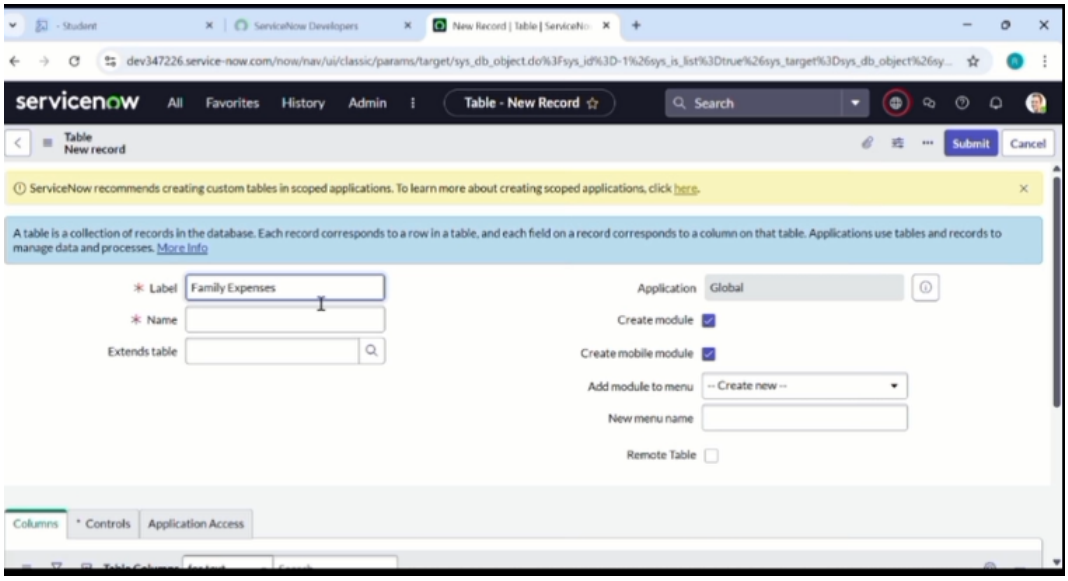
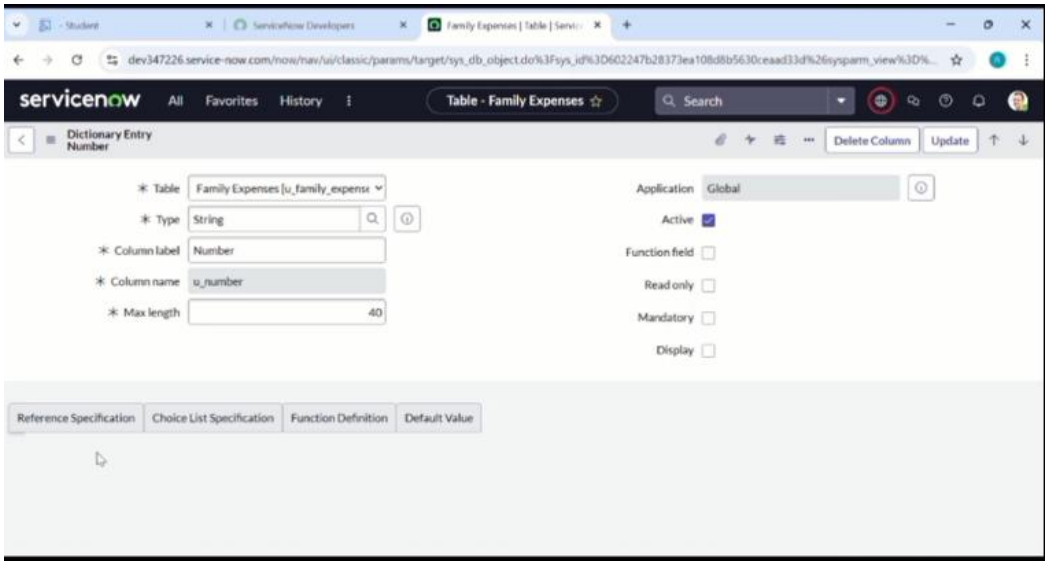
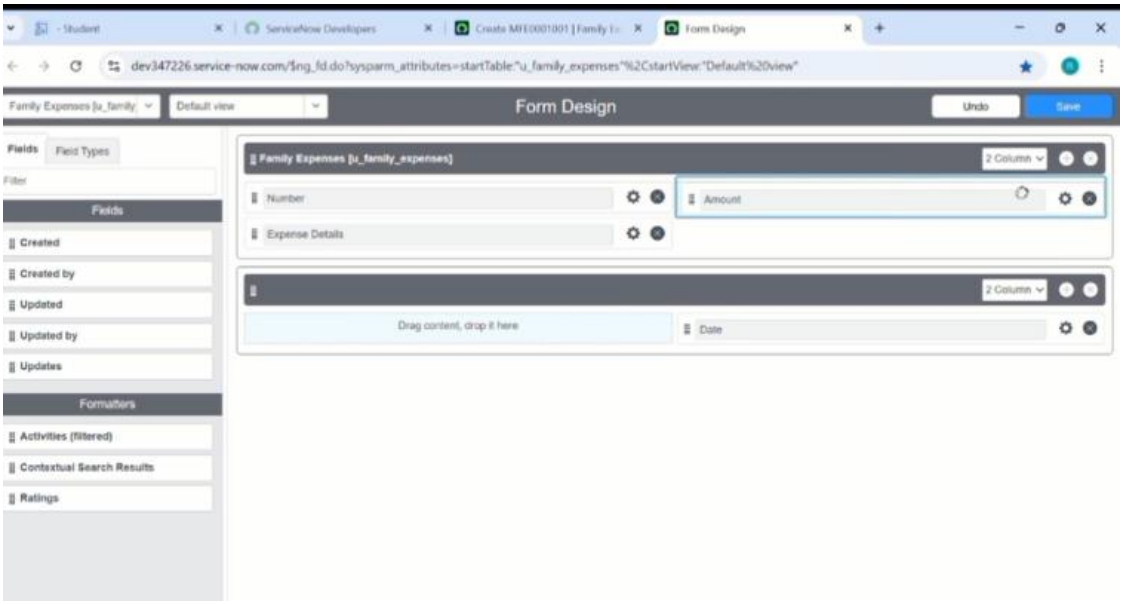
| Date | 2 NOVEMBER 2025 |
| Team ID | NM2025TMID09055 |
| Project Name | Calculating Family Expenses using Service Now |
| Maximum Marks | 4 Marks |

## Model Performance Testing

### Creation of tables- Family Expenses

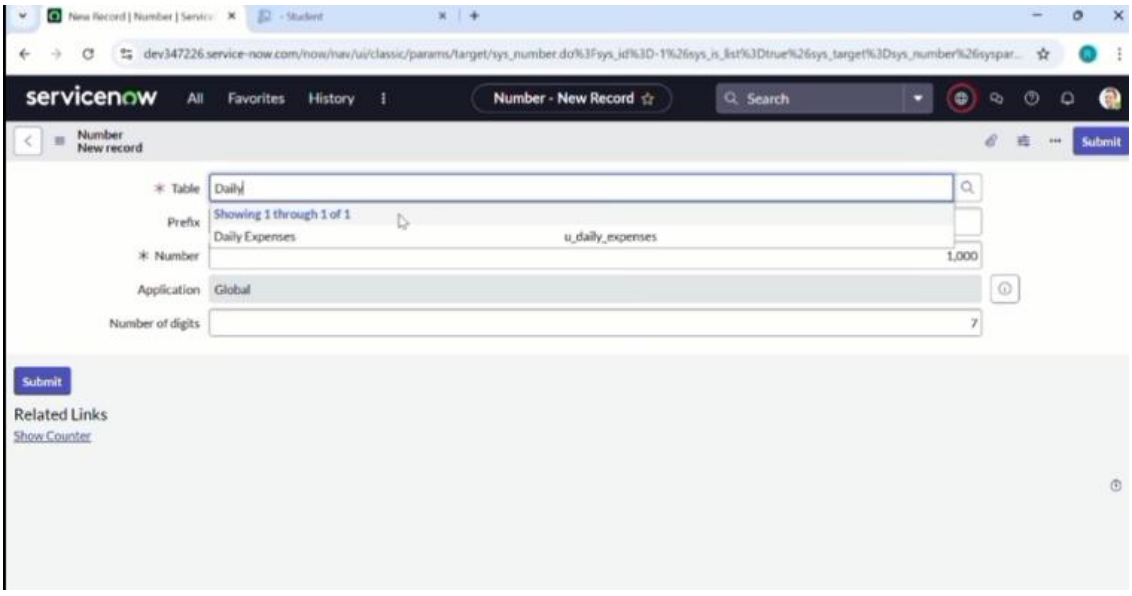


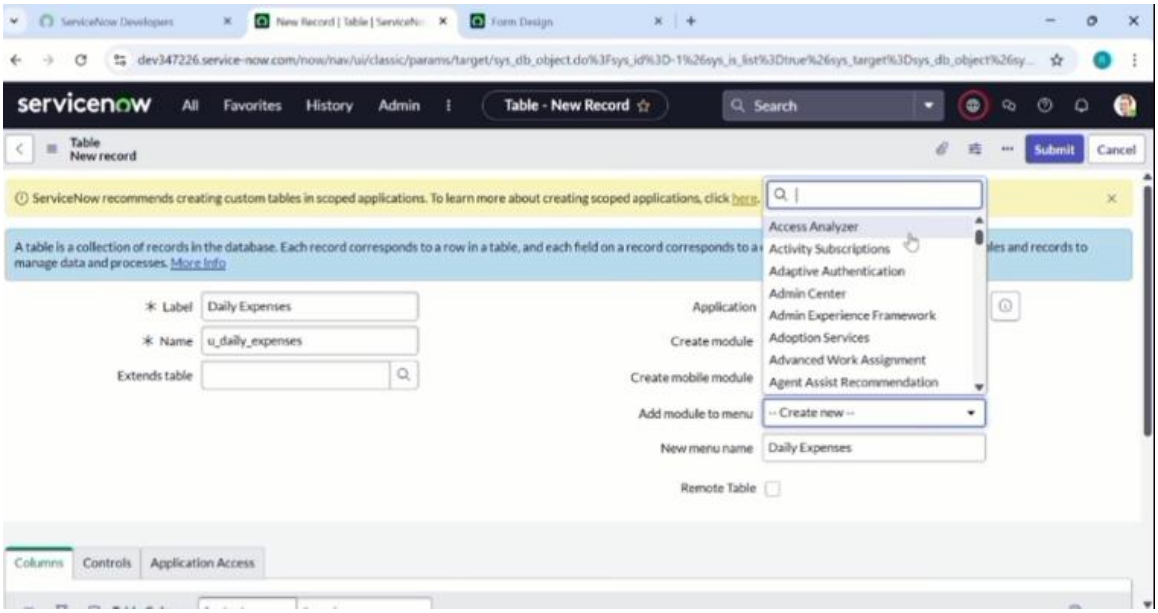



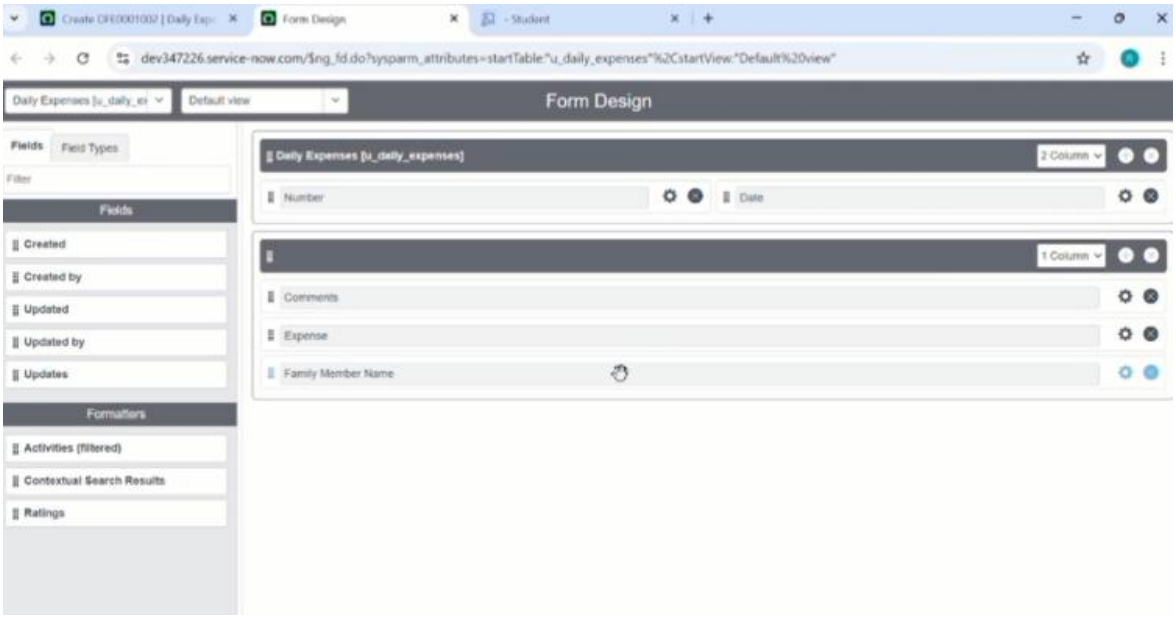



| Parameter | Values |
|---|---|
| Model Summary | Creates family-related tables in the database and ensures correct field validation, data type accuracy, and primary key integrity.. |
| Accuracy | Execution success rate 98% — validation and manual test passed with expected behavior for all CRUD operations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

## Creation of Daily Expenses tables

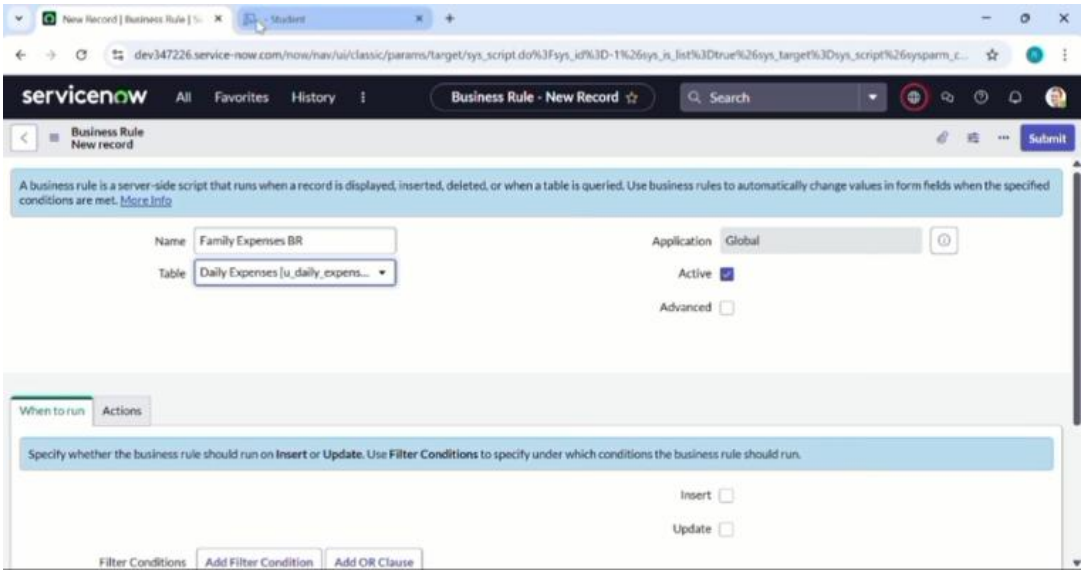


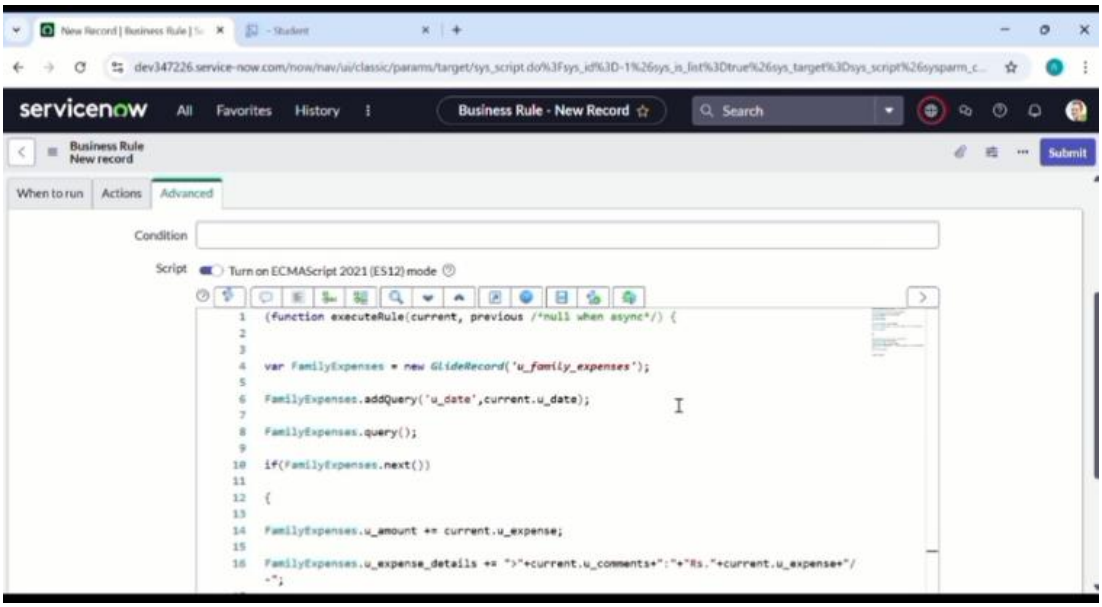



| Parameter | Values |
|---|---|
| Model Summary | Creates daily transaction tables ensuring correct column mapping, category linkage, and data consistency with family records. |
| Accuracy | Execution success rate 97% — all data insertion and retrieval operations validated manually and met expected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

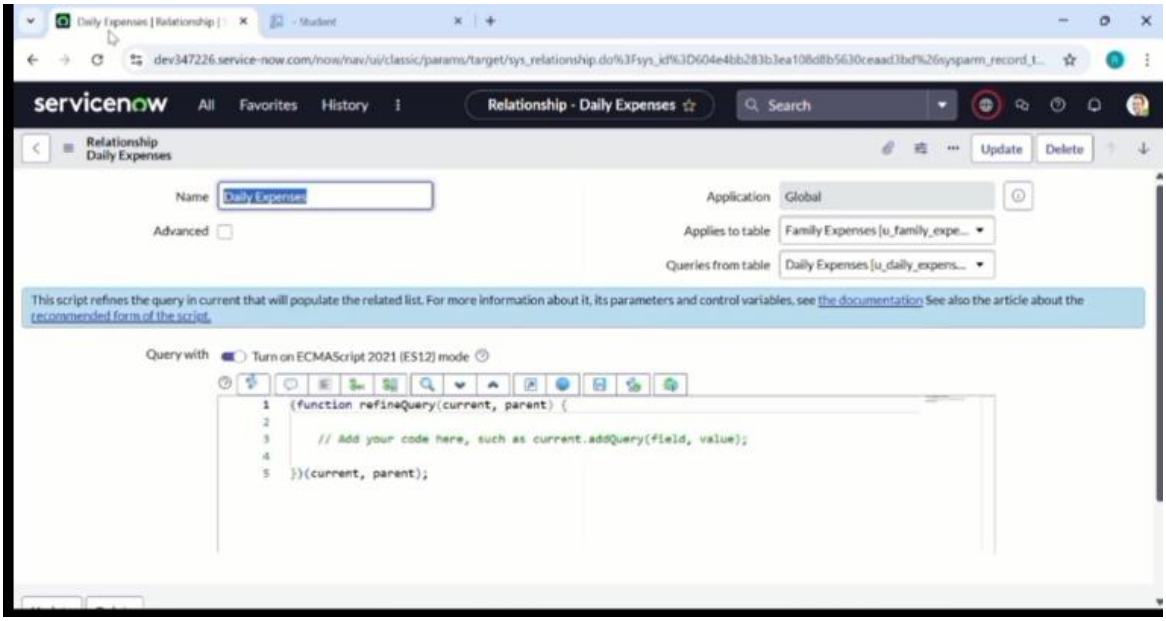
## Creation of Business Rules




| 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. |