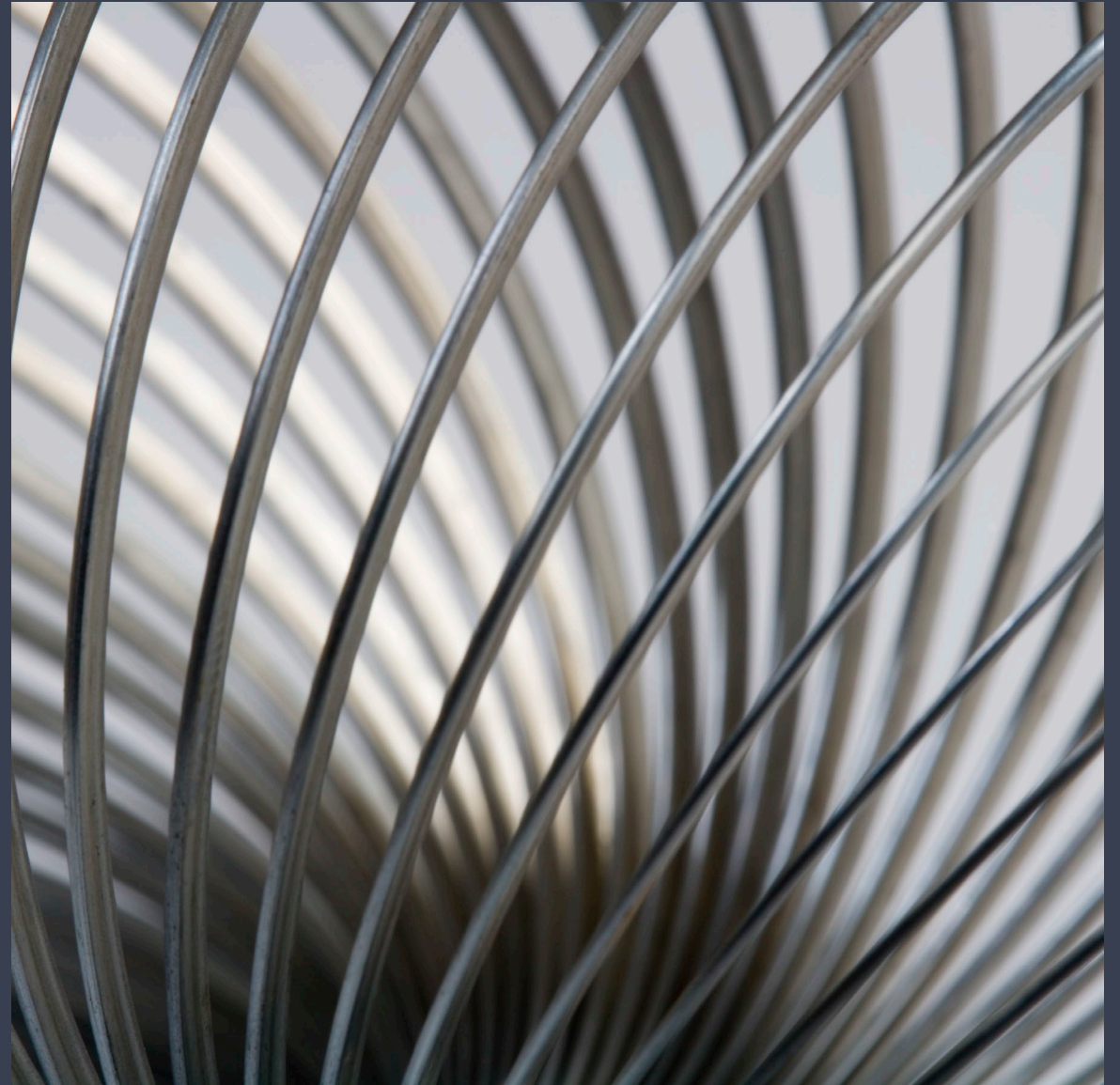


NUGM 2024

NOVOMOTION
OUTBOUND -
WHAT'S NEW &
THE AUDITOR

Trey Miller NovoRoi Systems, LLC



NOVOMOTION - THE SQL DELIVERY PUMP

NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER

File Edit Tools Help

Schema Options SQL Options Post Job Options

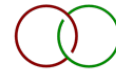
Schema Description: SA Schema Map Schema Active U2 Primary Key Concat String (if clustered Key)

Unidata File Name: SA Collect Schema Matrix Audit Data (Debug) Disable Active Update Trigger Check

Schema Subroutine Execute Before Matrix Execute After Matrix Disable Active Delete Trigger Check

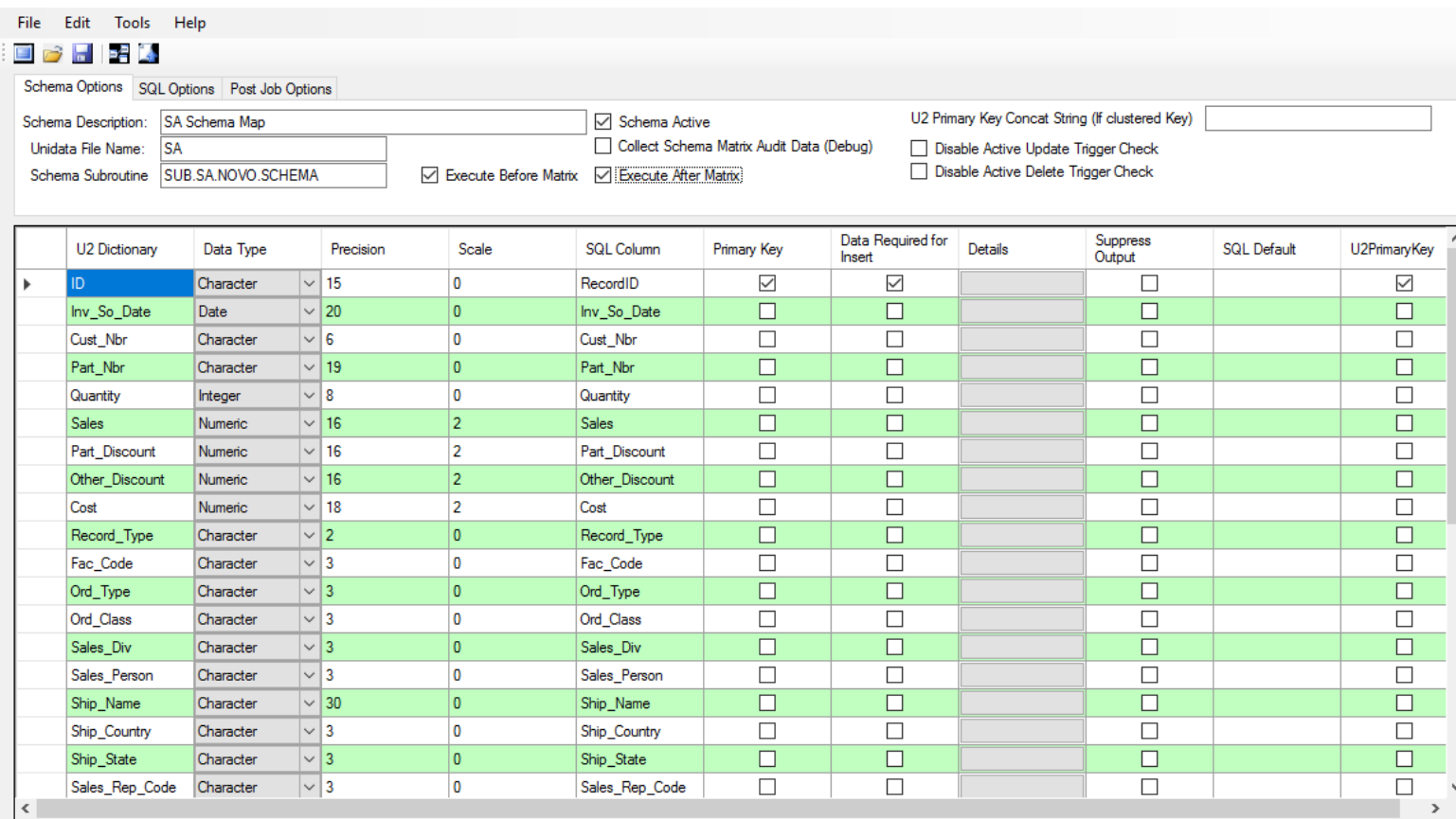
	U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
▶	ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
	Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	SA_Obh_Join	Character	25	0	SA_Obh_Join	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Inv_So_Yymm	Character	4	0	Inv_So_Yymm	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Order_Nbr	Character	6	0	Sales_Order_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Schema Record Loaded



OLD AND NEW FEATURES TO NOTE

The Schema Subroutine has been in the product for several releases. The power here is realized when using NovoMotion to build interactive interfaces.



Schema Description: SA Schema Map
Unidata File Name: SA
Schema Subroutine: SUB.SA.NOVO.SCHEMA

Schema Active
 Collect Schema Matrix Audit Data (Debug)
 Execute Before Matrix
 Execute After Matrix

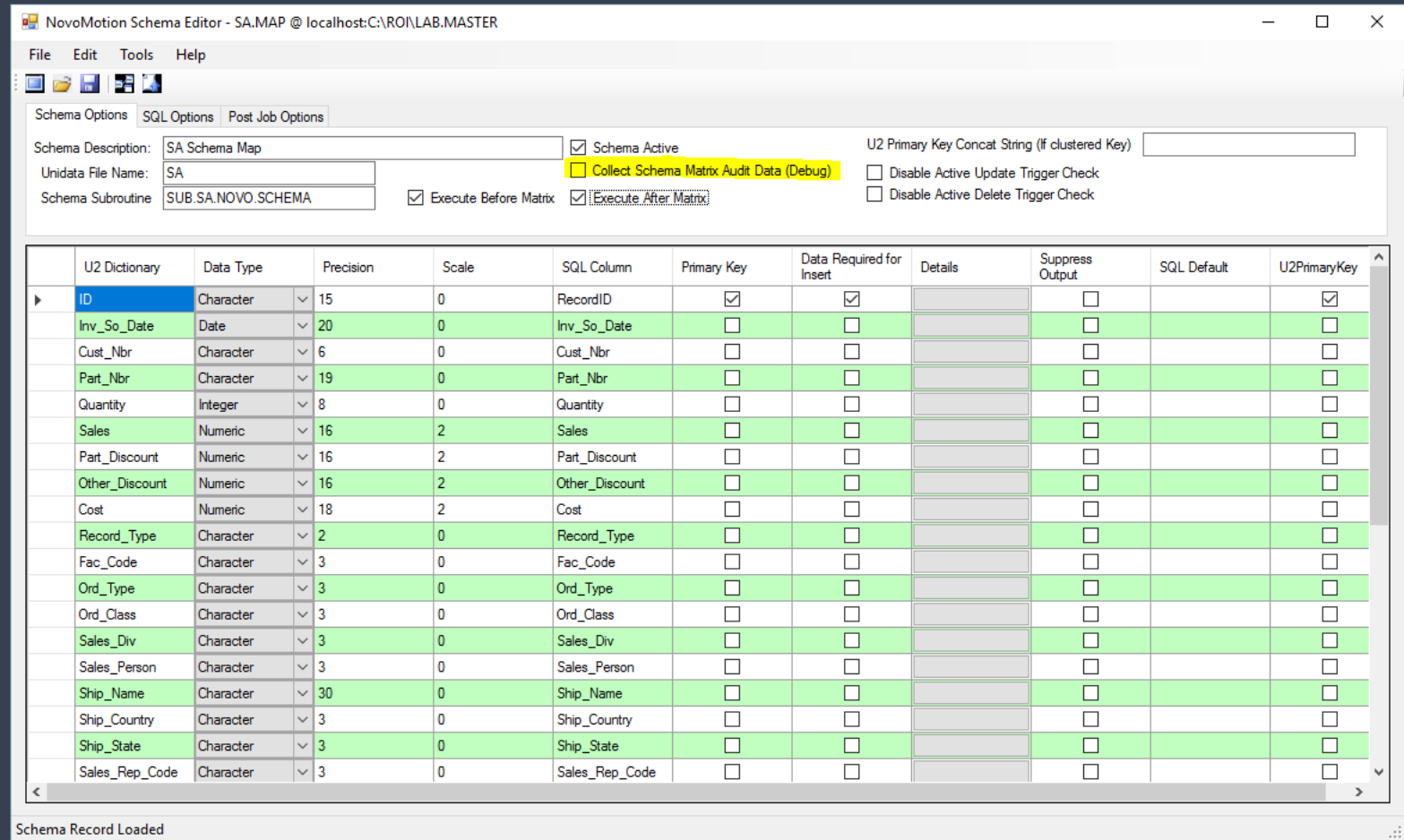
U2 Primary Key Concat String (If clustered Key):
 Disable Active Update Trigger Check
 Disable Active Delete Trigger Check

	U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
▶	ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
	Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>



OLD AND NEW FEATURES TO NOTE

Collect Schema Matrix Audit Data is extremely useful to determine where troublesome data corruption, or bad data definition is creating an issue for delivery to SQL Server.



The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes "File", "Edit", "Tools", and "Help". Below the menu bar are icons for various functions. The main area is divided into tabs: "Schema Options", "SQL Options", and "Post Job Options".

Under "Schema Options", the following fields are visible:

- Schema Description: SA Schema Map
- Unidata File Name: SA
- Schema Subroutine: SUB.SA.NOVO.SCHEMA
- Schema Active
- Collect Schema Matrix Audit Data (Debug)
- U2 Primary Key Concat String (If clustered Key)
- Disable Active Update Trigger Check
- Disable Active Delete Trigger Check
- Execute Before Matrix
- Execute After Matrix

The main table displays the following columns:

	U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
▶	ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
	Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

At the bottom of the window, a status bar indicates "Schema Record Loaded".



OLD AND NEW FEATURES TO NOTE

Be Aware that the schema audit detail file (BCI.AUDIT) is comprehensive, with copies of both before, and after images of the UniData files delivered to SQL.

The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes "File", "Edit", "Tools", and "Help". Below the menu bar are icons for file operations. The main window is divided into sections for "Schema Options", "SQL Options", and "Post Job Options".

Schema Options:

- Schema Description: SA Schema Map
- Unidata File Name: SA
- Schema Subroutine: SUB.SA.NOVO.SCHEMA
- Schema Active
- Collect Schema Matrix Audit Data (Debug)
- U2 Primary Key Concat String (If clustered Key)
- Disable Active Update Trigger Check
- Disable Active Delete Trigger Check
- Execute Before Matrix
- Execute After Matrix

Table of Columns:

	U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
▶	ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
	Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Discount	Numeric	16	2		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Other_Discount	Numeric	16	2		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cost	Numeric	18	2		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Record_Type	Character	2	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Fac_Code	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Type	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Class	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Div	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Warning Dialog Box:

NovoMotion Schema Editor

Warning: Creating Schema Audit Data can create extra records in the database, and affect performance. Remember to turn the Audit back off when debugging is complete.

OK

Schema Record Loaded

OLD AND NEW FEATURES TO NOTE

CLEAR-FILE BCI.AUDIT

DON'T forget to clear this out if
for no other reason than you
want it clean for the next use.

The screenshot shows the NovoMotion Schema Editor window for 'SA.MAP @ localhost:C:\ROI\LAB.MASTER'. The interface includes a menu bar (File, Edit, Tools, Help) and three tabs: Schema Options, SQL Options, and Post Job Options. The Schema Options tab is active, displaying fields for Schema Description (SA Schema Map), Unidata File Name (SA), and Schema Subroutine (SUB.SA.NOVO.SCHEMA). There are several checkboxes for options like 'Schema Active', 'Execute Before Matrix', and 'Execute After Matrix'. A table below lists schema fields with columns for U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. A dialog box titled 'NovoMotion Schema Editor' is overlaid on the table, containing a note: 'Note: Be sure to clear out the Audit Data from the BCI.AUDIT table once you are done reviewing the Audit information.' with an 'OK' button.

U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other_Discount	Numeric	16	2		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cost	Numeric	18	2		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Record_Type	Character	2	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Fac_Code	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Type	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Class	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Div	Character	3	0		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

OLD AND NEW FEATURES TO NOTE

When UniData file trigger state changes, email notification is sent.

These checkboxes will disable that notification for schema that is not used for triggering.

The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes "File", "Edit", "Tools", and "Help". Below the menu bar are icons for file operations. The main area is divided into tabs: "Schema Options", "SQL Options", and "Post Job Options".

The "Schema Options" tab is active, showing the following fields and checkboxes:

- Schema Description: SA Schema Map
- Unidata File Name: SA
- Schema Subroutine: SUB.SA.NOVO.SCHEMA
- Schema Active
- Collect Schema Matrix Audit Data (Debug)
- Execute Before Matrix
- Execute After Matrix
- U2 Primary Key Concat String (If clustered Key):
- Disable Active Update Trigger Check
- Disable Active Delete Trigger Check

Below the options is a table with the following columns: U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. The table contains 18 rows of data, with the first row (ID) highlighted in blue.

U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

At the bottom of the window, a status bar indicates "Schema Record Loaded".



OLD AND NEW FEATURES TO NOTE

Required prompts for Auditing
features:

U2 Primary Key is necessary for
Auditor to compare apples and
apples.

Concatenation is usually the “*”.

The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes "File", "Edit", "Tools", and "Help". Below the menu bar are icons for file operations. The "Schema Options" tab is active, showing fields for "Schema Description" (SA Schema Map), "Unidata File Name" (SA), and "Schema Subroutine" (SUB.SA.NOVO.SCHEMA). There are checkboxes for "Schema Active", "Execute Before Matrix", and "Execute After Matrix". A dropdown menu is set to "U2 Primary Key Concat String (If clustered Key)". Other options include "Collect Schema Matrix Audit Data (Debug)", "Disable Active Update Trigger Check", and "Disable Active Delete Trigger Check".

	U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
▶	ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
	Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
	Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Schema Record Loaded

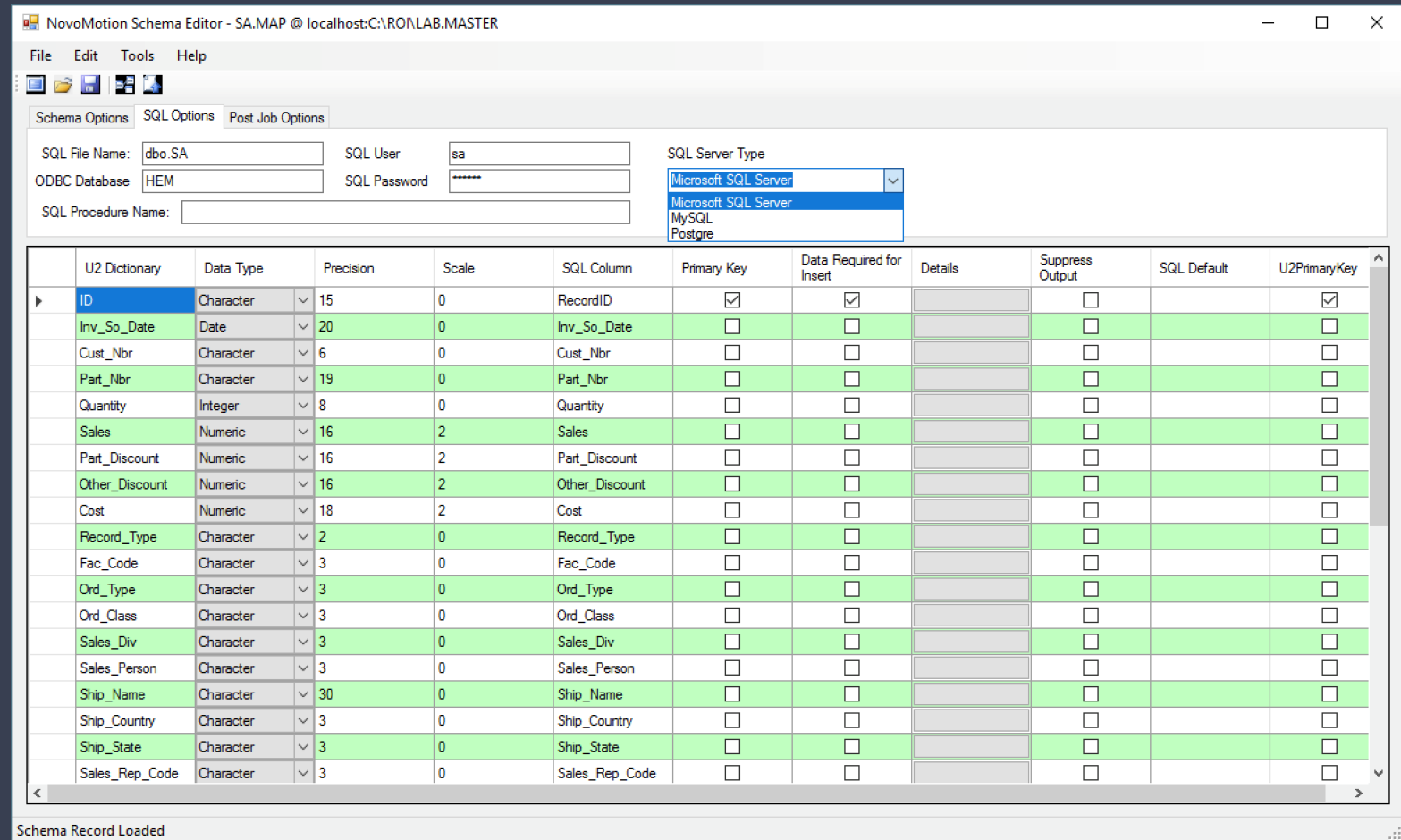


OLD AND NEW FEATURES TO NOTE

Don't think Microsoft SQL Server is the end all and be all.

NovoMotion also supports MySQL and Postgre.

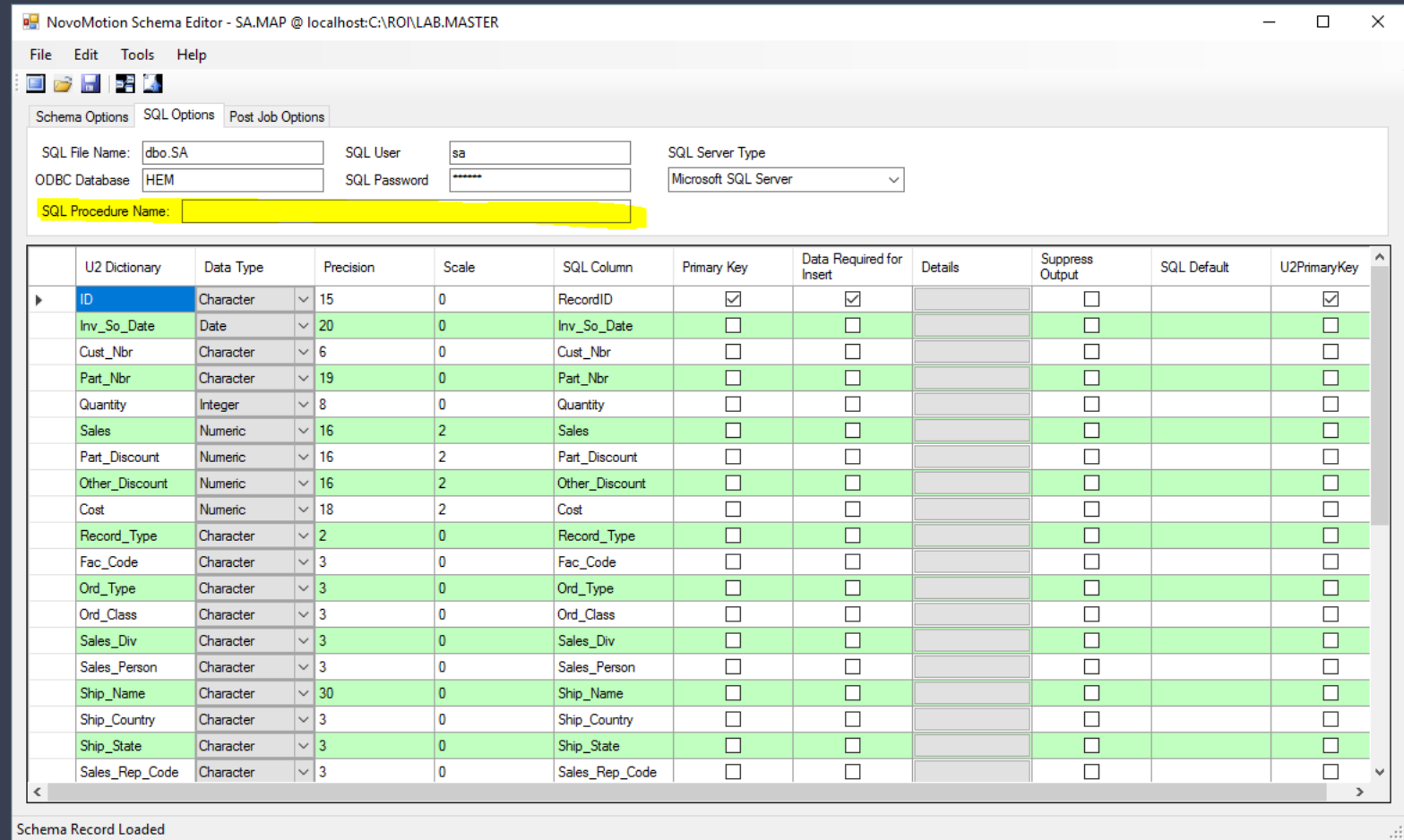
You can use those database DSN endpoints side-by-side with SQL.



OLD AND NEW FEATURES TO NOTE

NovoMotion utilizes SQL Server stored procedures to manage insert, update, and delete of data delivery.

You can introduce your own procedure source.



The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes "File", "Edit", "Tools", and "Help". Below the menu bar are three tabs: "Schema Options", "SQL Options", and "Post Job Options". The "SQL Options" tab is active, showing fields for "SQL File Name" (dbo.SA), "SQL User" (sa), "SQL Server Type" (Microsoft SQL Server), "ODBC Database" (HEM), and "SQL Password" (masked). A "SQL Procedure Name" field is highlighted in yellow. Below these fields is a table with the following columns: U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. The table contains 17 rows of data, with the first row (ID) highlighted in blue. The status bar at the bottom indicates "Schema Record Loaded".

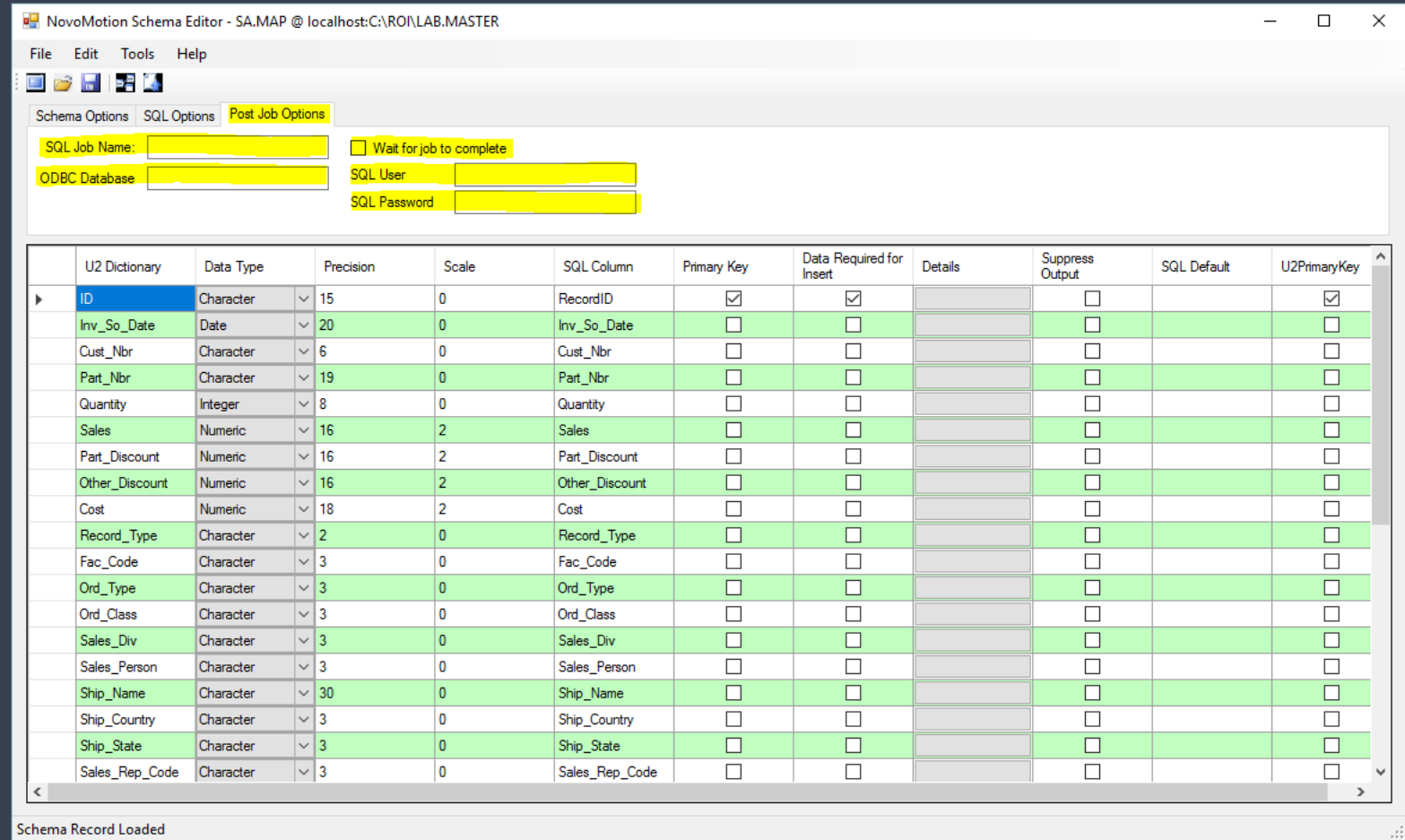
U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
ID	Character	15	0	RecordID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales	Numeric	16	2	Sales	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Div	Character	3	0	Sales_Div	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Person	Character	3	0	Sales_Person	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Name	Character	30	0	Ship_Name	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Country	Character	3	0	Ship_Country	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_State	Character	3	0	Ship_State	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>



OLD AND NEW FEATURES TO NOTE

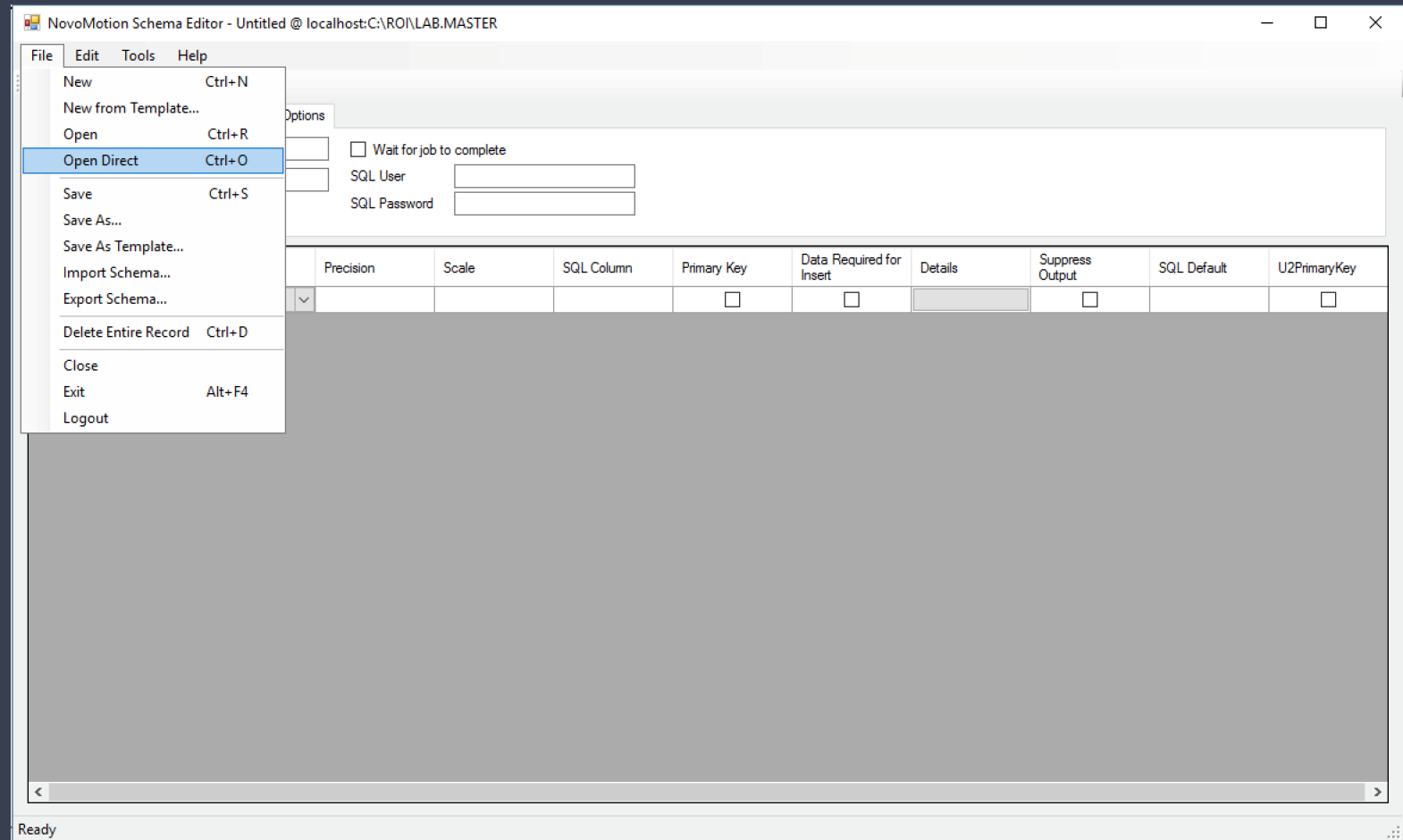
Post data delivery SQL job execution.

Utilized for syncing SQL Server Analysis Services data repositories and keeping them up to date.



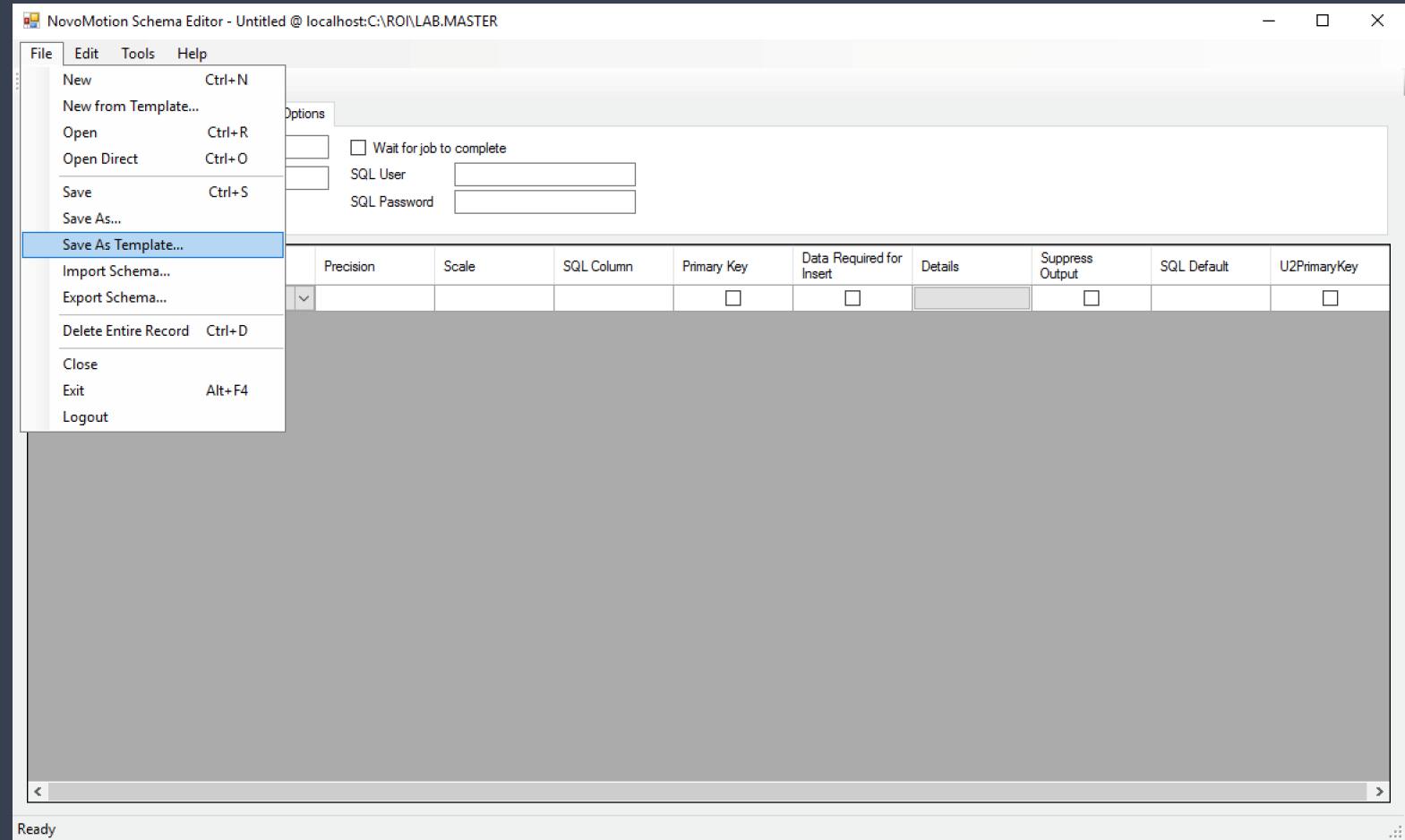
OLD AND NEW FEATURES TO NOTE

Skip the large BCI.SCHEMA
selection dialogue box and go
directly to a named schema that
you know and love.



OLD AND NEW FEATURES TO NOTE

If you aren't using the Template capabilities then you have to remember everything on the SQL Options tab on your own. Templates 'remember' ODBC DSN names, users and PWs.



OLD AND NEW FEATURES TO NOTE

You do NOT need to run the
LOAD.BCI.ACTION function from
within Manage 2000 to control
delivery of data to SQL.

The screenshot shows the NovoMotion Schema Editor interface. The title bar reads "NovoMotion Schema Editor - SA.MAP @ localhost:C:\ROI\LAB.MASTER". The menu bar includes File, Edit, Tools, and Help. The Tools menu is open, showing options: Generate SQL Script (Ctrl+Q), Validate Schema, Apply Template to selected Schema..., Launch Interface Control..., Launch File Loader... (highlighted), and Generate Delta Script. Below the menu, there are input fields for "SQL File Name" (containing "sa"), "ODBC Datab" (containing "*****"), and "SQL Server Type".

The main area displays a table with the following columns: U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. The table contains 20 rows of data, with the "Sod_ID" row highlighted in blue. The status bar at the bottom indicates "Row 31".

U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
Sales_Rep_Code	Character	3	0	Sales_Rep_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
SA_Obh_Join	Character	25	0	SA_Obh_Join	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Inv_So_Yymm	Character	4	0	Inv_So_Yymm	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sales_Order_Nbr	Character	6	0	Sales_Order_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Request_Date_Sql	Date	20	0	Request_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Invoice_Nbr	Character	7	0	Invoice_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Line_Nbr	Character	4	0	Line_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Inv_Line_Nbr	Character	4	0	Inv_Line_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Item_Type	Character	2	0	Item_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sell_Qty	Integer	12	0	Sell_Qty	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Del_Nbr	Character	3	0	Del_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
@Action	Character	1	0	Action_Flag	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ship_Date	Date	20	0	Ship_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sod_ID	Variable Char...	10	0	Sod_ID	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Request_Date_Dw	Date	20	0	Request_Date1	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Tran_Date	Date	20	0	Tran_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
User_Def_1	Variable Char...	20	0	User_Def_1	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
User_Def_2	Variable Char...	20	0	User_Def_2	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
*					<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

OLD AND NEW FEATURES TO NOTE

You do need to use exact syntax
in the selection statement with
proper case.

The SAMPLE keyword is boss!

The screenshot shows the NovoMotion Schema Editor interface. The main window displays a table of schema options with columns: U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. A dialog box titled 'Submit Load Action' is open, showing a 'File Name' field with 'SA' and a 'Select Statement' field with the text: `SELECT SA WITH Tran_Date > "12-31-23" SAMPLE 1000`. The dialog also has 'Submit', 'Cancel', and 'Test Select' buttons.

U2 Dictionary	Data Type	Precision	Scale	SQL Column	Primary Key	Data Required for Insert	Details	Suppress Output	SQL Default	U2PrimaryKey
@Action	Character	1	0	Action_Flag	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cost	Numeric	18	2	Cost	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cust_Nbr	Character	6	0	Cust_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Del_Nbr	Character	3	0	Del_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Fac_Code	Character	3	0	Fac_Code	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
ID	Character	15	0	ID	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inv_Line_Nbr	Character	4	0	Inv_Line_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Inv_So_Date	Date	20	0	Inv_So_Date	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Inv_So_Yymm	Character	4	0	Inv_So_Yymm	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Invoice_Nbr	Character	7	0	Invoice_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Item_Type	Character	2	0	Item_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Line_Nbr	Character	4	0	Line_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Class	Character	3	0	Ord_Class	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Ord_Type	Character	3	0	Ord_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Other_Discount	Numeric	16	2	Other_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Discount	Numeric	16	2	Part_Discount	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Part_Nbr	Character	19	0	Part_Nbr	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Quantity	Integer	8	0	Quantity	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Record_Type	Character	2	0	Record_Type	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

OLD AND NEW FEATURES TO NOTE

This will initiate a PHANTOM
background task.

The task will martial its own data
levels so not too much is entered
into BCI.ACTION.

You will NOT burn an M2k license!

The screenshot shows the NovoMotion Schema Editor interface. The main window displays a table of columns with the following headers: U2 Dictionary, Data Type, Precision, Scale, SQL Column, Primary Key, Data Required for Insert, Details, Suppress Output, SQL Default, and U2PrimaryKey. The table lists various columns such as @Action, Cost, Cust_Nbr, Del_Nbr, Fac_Code, ID, Inv_Line_Nbr, Inv_So_Date, Inv_So_Yymm, Invoice_Nbr, Item_Type, Line_Nbr, Ord_Class, Ord_Type, Other_Discount, Part_Discount, Part_Nbr, Quantity, and Record_Type.

Overlaid on the table is a 'Submit Load Action' dialog box. It contains the following fields and options:

- File Name: SA
- Select Statement: SELECT SA WITH Tran_Date > "12-31-23" SAMPLE 1000
- Buttons: Submit, Cancel, Test Select

Below the dialog box, another 'NovoMotion Schema Editor' dialog box is visible, containing the message: 'PHANTOM Process 37836 started. COMO file is '_PH_\roi62006_37836''. It has an 'OK' button.

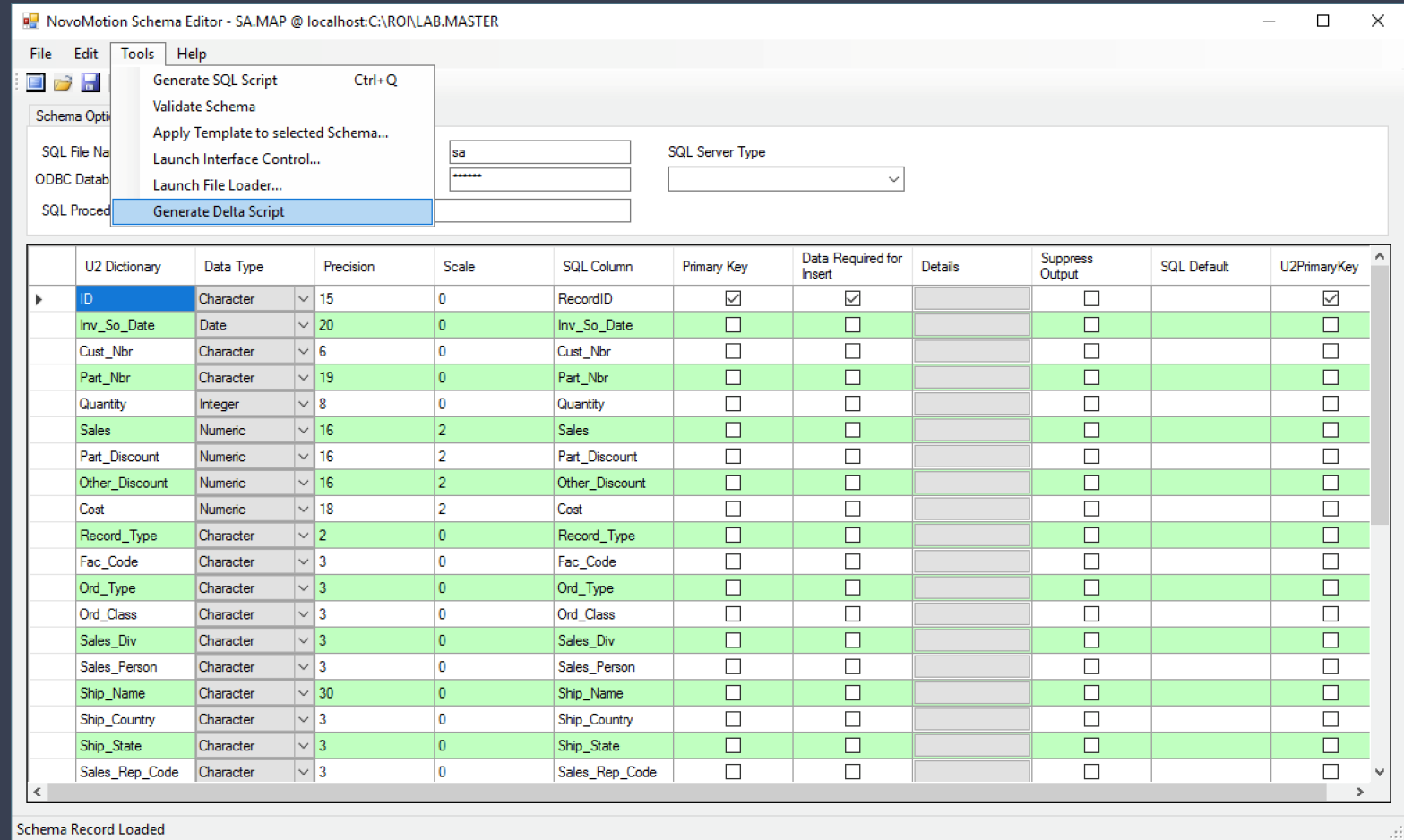
The status bar at the bottom of the main window indicates 'Row 31'.



OLD AND NEW FEATURES TO NOTE

Here's a REALLY useful one.

Ever wonder how to "Alter" the SQL data tables when you change schema without having to drop and reload EVERYTHING?



OLD AND NEW FEATURES TO NOTE

You absolutely **MUST** choose the generate delta script option **PRIOR** to saving the template, but if you do then the alteration code is available to be executed directly on SQL.

The screenshot shows the NovoMotion Schema Editor interface. The main window displays a table with columns: U2 Dictionary, Data Type, Precision, SQL Default, and U2PrimaryKey. The 'Alter Table Script' dialog box is open, showing the following SQL code:

```
1 ALTER TABLE dbo.SA DROP COLUMN [Program_Name];
2 ALTER TABLE dbo.SA DROP COLUMN [Purch_Um];
3 ALTER TABLE dbo.SA ADD [User_Def_1] [varchar](20) NULL;
4 ALTER TABLE dbo.SA ADD [User_Def_2] [varchar](20) NULL;
```

The dialog box also has an 'Execute on SQL' button. The main window shows the 'Sod_ID' column selected in the table view.



NOVOMOTION AUDITOR

SchemaRecordAudit.exe

- This executable program is designed to triangulate between the SQL server and the UniData Server.
- It can be installed almost anywhere on the network, as long as it can make connection to both the database servers.
- A workstation is not a bad place to start with development but ultimately it will work best on a server that is well provisioned for network tasks.
- You will want to make Windows command shell scripts to run the executable.
- The Windows Task Scheduler is a good way to automate Auditing tasks.



NOVOMOTION AUDITOR

```
SchemaRecordAudit.exe -u "m2k-dev" -l ServiceAccountName -p "ServiceAccountPW" -a  
E:\ROI\SQL.TESTING -q "sqlTestServer" -d M2K_TESTING_WHSE -x -s CM.MAP -T
```

Parameter	Value	Description
	SchemaRecordAudit.exe	Audit executable. May need full path. If full path includes spaces, enclose the full path in quotation marks.
-u	"m2k-dev"	IP/DNS name for Unidata host. May need to be in quotation marks to handle special characters.
-l	ServiceAccountName	Unidata host user or login.
-p	"ServiceAccountPW"	Unidata host password. May need to be in quotation marks to handle special characters.
-a	E:\ROI\SUN.TESTING	Unidata account on host.
-q	"sqlTestServer"	SQL instance name. May need to be in quotation marks to handle special characters.
-d	M2K_TESTING_WHSE	SQL database name.
-x		Execute as SQL authentication. Get credentials from schema record and use that user. Leaving -x off will use trusted credentials (user that is executing EXE).
-s	CM.MAP	Name of schema being audited
-T		Trace option, pauses.



NOVOMOTION AUDITOR

```
C:\Temp\SchemaRecordAudit 1.0.5024>schemarecordaudit.exe --help
```

Usage:

- s, --schema... Input NovoMotion Schema to use for audit
- u, --u2host... U2 System name or IP address
- l, --u2user... U2 System user ID
- a, --u2account... U2 System Account / Account Path
- p, --u2password... U2 user password
- q, --sqlhost... SQL Host Name / IP address
- d, --sqldb... SQL Database
- r, --ReportOnly[optional]... Only Report errors (take no action)
- , --Help[optional]... Display Commands Available
- x, --UseSqlUser[optional]... Connect as SQL user from schema record
- N, --NoDeletes[optional]... Do not remove deleted SQL records missing in U2
- T, --Debug[optional]... Enable walking change by change with host trace records
- w, --walkforward[optional]... use this field as transaction date to certify spans of time
- z, --walkforwardidx[optional]... use this field as the indexed u2 transaction date to certify spans of time



NOVOMOTION

6.0

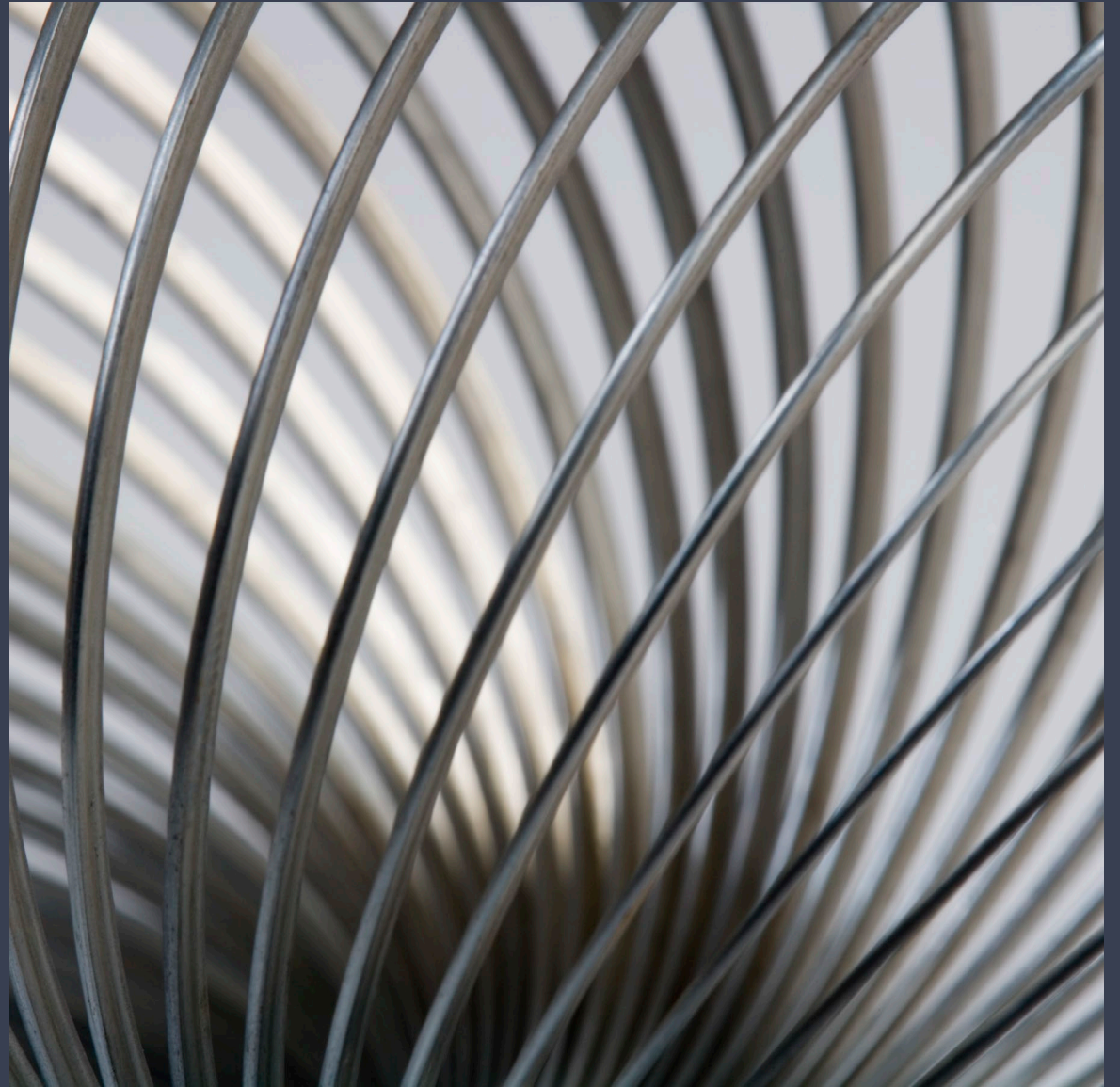
Multi Schema Delivery Architecture

- 5.0 and prior was 'Vertical' in addressing Schema on a particular UniData file (IPL for instance).
- 6.0 is 'Horizontal' in that it uses worker drones to manage all schema simultaneously on a file.
- Data delivery pacing item becomes the slowest single schema, instead of the aggregate of all schema.



NUGM 2024

QUESTIONS?



NUGM 2024

THANK YOU

