

Guide

DataMatch Enterprise Server + API Live Search Demo



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Introduction

'Live Search Demo' is the example of a standalone application that works with DME API. This example shows how search works in real-time or real-time suppressing management.

'Live Search Demo' works with Oracle DB, MS SQL Server (or SQL Server Express). At the same time 'Live Search Demo' works with DME projects where user controls used database and implemented rules for filtering and suppressing.

There is significant limitation in 1000 records if DME API is used without registration.

Installation

Step 1 - Before start working with 'Live Search Demo' application user should check that next applications are installed:

- MS SQL Server or MS SQL Server Express
- Microsoft SQL Management Studio
- .NET Framework (4.5.2 or later)
- Data Match Enterprise

Step 2 - After completing with installation, preparations should be done in database. Create or import database with set of data. Data Match Enterprise can be used for exporting data to SQL Server.

Step 3 – After that prepare project in DME. The project must contain only one data source. This data source must be the table in SQL Server. It can be the table prepared during previous step or another table. Save all settings and close DME.



Set some match definitions. For example, how it shows below.



Fig. 1. Example of matching settings in DME

Step 4 - Save project. Close DME.

Settings

This is WinForms demo application that uses DME API directly, without using of service. The program is intended for searching text in Data Match Enterprise projects. Please note that only the projects with single data source can be used.

Application uses configuration.ini and webservice.ini files. Their placement is shown on the Fig.2. Modify these files. Set path settings as it's defined in Data Match Enterprise. Enter correct connection string These files define where:

- project file search
- search registration key
- keep cached data

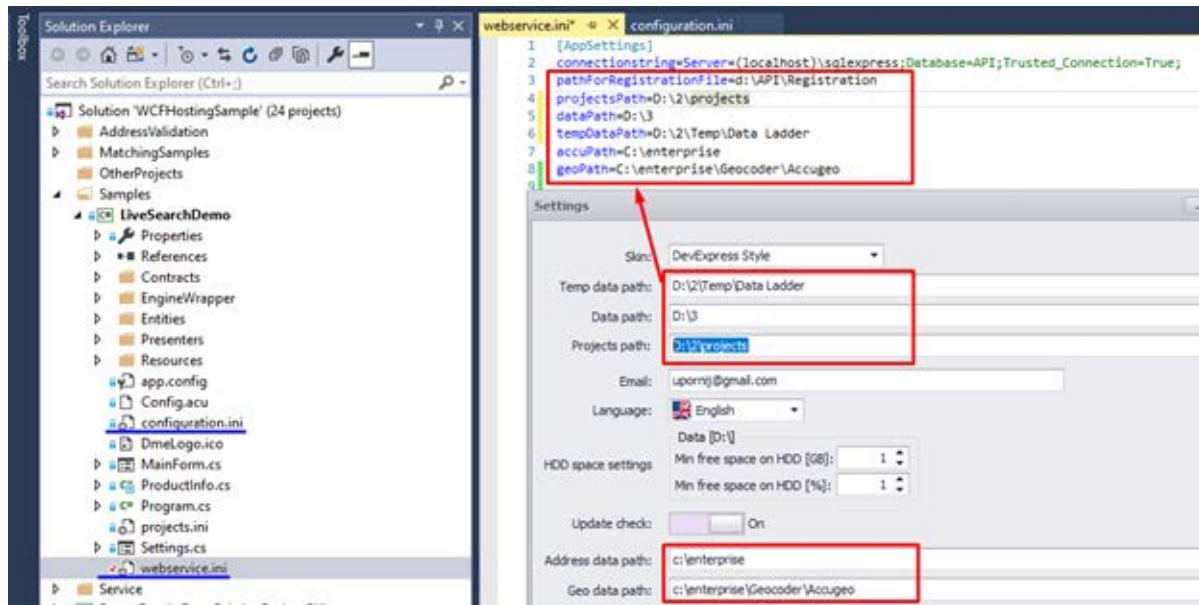


Fig. 2. The project in Visual Studio solution and configurations files

The first file (configuration.ini):

[AppSettings]

```
pathForRegistrationFile=d:\API\Registration
projectsPath=d:\API\Projects
dataPath=d:\API\Data
tempDataPath=d:\API\Temp
```

The second file (webservice.ini):

[AppSettings]

```
connectionstring=Server=(localhost)\sqlexpress;Database=API;Trusted_Connection=True;
pathForRegistrationFile=d:\API\Registration
projectsPath=d:\API\Projects
dataPath=d:\API\Data
tempDataPath=d:\API\Temp
accuPath=C:\enterprise
geoPath=C:\enterprise\Geocoder\Accugeo
```


Live Search Demo

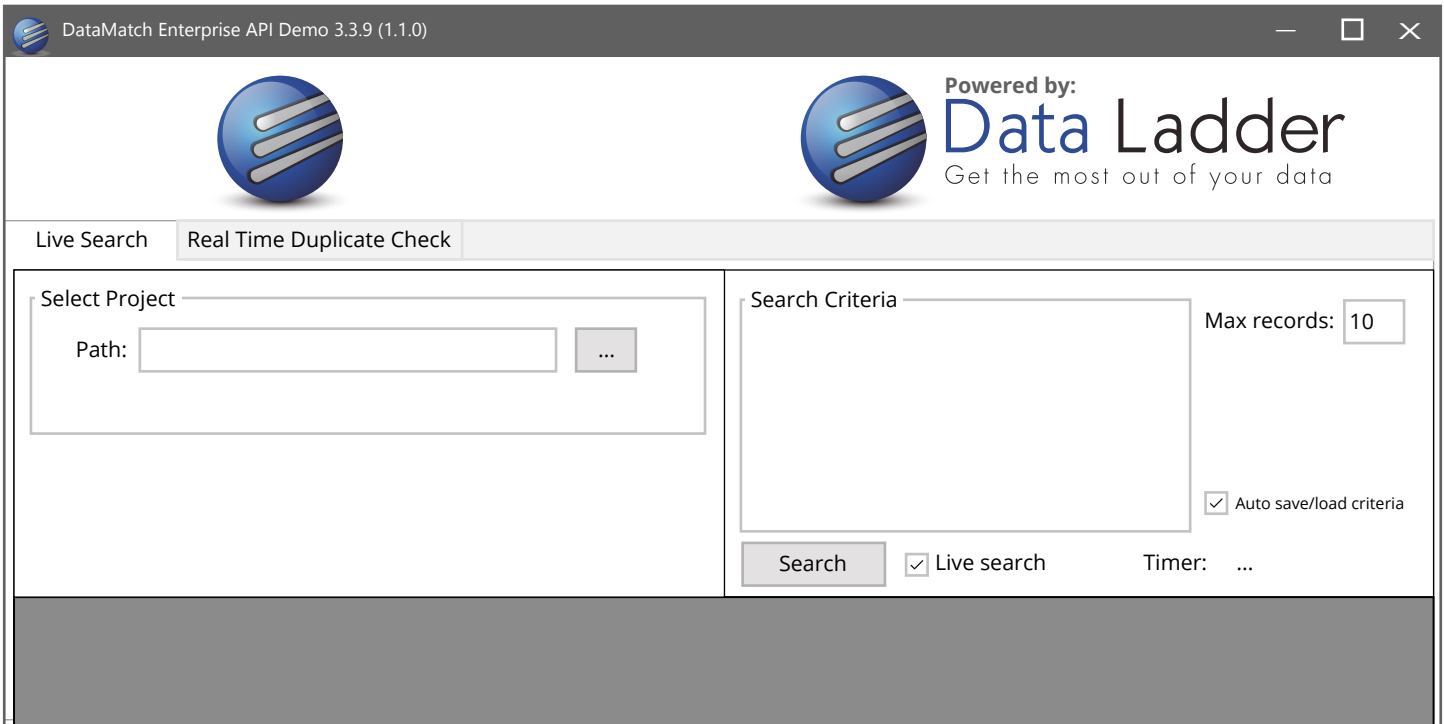


Fig. 1. Main application form appearance

You can prompt project file using standard open dialog clicking on the button ...
 Then it's possible to search in matched results using live search or simple search on demand.

When 'Live Search' check box is checked then every pressing of key sends an entered data to the Match Engine. Application outputs result of matching into data table on first tab. If check box is not checked, data is sent to result grid when user presses "Search" button.

Live Search Demo

DataMatch Enterprise API Demo 3.3.9 (1.1.0) - sqlProject

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Live Search Real Time Duplicate Check

Select Project

Path: D:\2\projects\sqlProject.dmeproj ...

Search Criteria

Contact First Name:

Contact Last Name:

Max records:

☒ Auto save/load criteria

Search ☒ Live search Timer: 0 sec 54 ms

	Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone	Birthdate	Email
▶	Ross Brbara Stat...	Political organizat...	460 SW Jefferso...	cORVALLIS	OR	97333-4605	Barbra		Ross	(137) 318-1719	6/18/1959	bross
	Plasfinc Inc	Plastics-Fabricati...	1060 W Jfk Dr	nORTH VERNON	IN		Barbara		Bridle	(935) 604-2150	8/22/1960	bbride
	Barb's Place	Cocktail Lounges	201 East St	tEXARKANA	AR	71854-6503	Barbara	S	Graves	(916) 339-8638	5/28/1978	bgrav
	Welcome Home I...	Gift Shops	250 Red Cliffs Dr ...	sT GEORGE	Utah	84790-8172	Barbara		Black	(256) 398-4513	2/10/1967	bblac
	Finance Dept	State Governmen...	251 W Washing...	pHOENIX	Arizona	85003-2201	Barbara	B	Alvarez	(583) 740-8060	10/27/1976	balva
	Shell Chiropractic...	Chiropractors Dc	31 W Jefferson St	pHOENIX	Arizona	85003-2304	Barbara	E	Froelich	(192) 258-9841	9/12/1981	bfroel
	Sisters and Comp...	Beauty shops	318 E State St	mAUSTON	WI	53948-1350	Barbara	J	Iwanowicz	(639) 843-5920	12/18/1970	biwan
	Tea For Tutu	Dance studio/sc...	383 Long Beach ...	iSLAND PARK	NY	11558-1039	Barbara	W	Cittadino	+1 (656) 014-7169	2/19/1961	bcitta
	Fam Bureau Insu...	Insurance	467 N Main St	pANGUITCH	Utah	84759-0000	Barbara		Leach	+1 (131) 950-3928	9/30/1967	bleac
	Kissel Bros Show...	Bridge Clubs	6003 Squirrelwoo...	cINCINNATI	Ohio	45247-5971	Barbara	J	Kissel	+1 (750) 176-9285	6/13/1967	bkiss

Fig. 2 Live Search Demo application in action

Note: at least 1 match criteria should be defined for search in a project. Textboxes in the top-right corner 'Contact First Name' and 'Contact Last Name' are corresponded to fields used in match criteria. Entering only Last Name user gets results it's because the project was chosen with Cross Columns option.


Search results are displayed in the tabular result. Max Record count can be increased for speed of the search process.


Real Time Duplicate Check

'Real Time Duplicate Check' is the second example that application has. This is the second tab of the application. It checks records before inserting them to the database. If the record is not similar to any existed ones then it will be inserted to the database, otherwise it will be rejected.

The content of table from database is shown in the bottom data table. Duplicates or inserted data are shown in the middle of data table.

'Auto Match' and 'Manual Review' There are two thresholds that exist in application. If new records have score similarity more than it is set by 'Auto Match' then the record will be rejected. If score is less than 'Manual Review' it will be inserted. If the score is between thresholds, then manual accepting is required for inserting the record into the database.


 DataMatch Enterprise API Demo 3.3.9 (1.1.0) - sqlProject


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Live Search
 Real Time Duplicate Check

Frontend
 ☒ Use the cache table

Contact First Name:
 Contact Last Name:
 Submit
 Reset

Search Criteria
 ☐ Use floating thresholds

General
 Auto Match:
 Manual Review:
 Set New Thresholds

Fields
 Contact First Name (90%)
 Contact Last Name (90%)

Backend
 Record status: **DUPLICATE**

Score	Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone
100	John's Hair Stylists	Beauty Salons	10 W Main St	FORT LORAMIE	Ohio	45845-0000	John	J	Holtvogt	(698) 904-9979
100	City Midlothian P...	State Governmen...	101 W Avenue F	miDLOTHIAN	TX	76065-2924	John	S	Spann	(167) 155-0209
100	Events To Go Inc	Portrait studio	105 Buchanan Ave	cAPE CANAVER...	FL	32920-3201	John	W	Trudeau	(333) 887-1328

Database

Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone	Birthdate
Arts Ice	Snack Products	902 River Rd	rEDFIELD	AR	72132-9592	Art		Lockhart	(424) 989-9692	4/16/1981
Bob Oliva Creativ...	Graphic Services	905 W McDowell ...	pHOENIX	Arizona	85007-1729	Bob	A	Oliva	(752) 506-5464	9/18/1969
Farmer Butler Lea...	Insurance	919 N 1st St	pHOENIX	Arizona	85004-1902	Jim	B	Farmer	(340) 634-9793	7/26/1981
Ruby's Inn Chev...	Service Stations...	Highway 63	bRYCE CANYON	Utah	84717-0000	Rod	D	Syrett	(979) 387-8215	3/31/1977
Printing & Graphics	Commercial printer	P.O. BOX 1466	mESA	Arizona	85211-1466	Tim	W	Dougherty	(702) 375-1372	7/6/1958
Education Marke...	Business service	1 N Main St	sT GEORGE	Utah	84770-3447	Ryan	S	Kohler	(235) 794-7994	8/22/1976
John's Hair Stylists	Beauty Salons	10 W Main St	FORT LORAMIE	Ohio	45845-0000	John	J	Holtvogt	(698) 904-9979	1/28/1982
Shadow Golf	Golf Equipment & ...	1000 W Main St ...	dOTHAN	AL	36301-1407	Kitt	Y	Thomley	(649) 100-7272	8/31/1974
SSE Inc	Architects	1001 Madison Ave	tOLEDO	Ohio	43624-1585	Tony	D	Damon	(907) 311-3539	6/11/1964
City Midlothian P...	State Governmen...	101 W Avenue F	miDLOTHIAN	TX	76065-2924	John	S	Spann	(167) 155-0209	4/30/1955

Fig. 3. Real Time Duplication Check application in action (suppressing a duplicate record)

Fig.3 shows rejected insertion. There are a few records with a score equal to 100. It's bigger than Auto Match level that's why they were rejected.

DataMatch Enterprise API Demo 3.3.9 (1.1.0) - sqlProject

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Live Search | **Real Time Duplicate Check**

Frontend

☒ Use the cache table

Contact First Name:

Contact Last Name:

Search Criteria

☐ Use floating thresholds

General: Auto Match: 90, Manual Review: 80,

Fields: Contact First Name (90%), Contact Last Name (90%)

Backend

Record status: **UNIQUE**

Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone	Birthdate	Em
						Horhe		Stick			

Database

Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone	Birthdate	
Cbk Inc	Trust Service	1824 Harbor Isla...	oRANGE PARK	FL	ZIP32003-7256	Christophe	Y	King	+1 (238) 917-2567	3/4/1972	c
Jt Investment Pro...	Investor services	1915 Pearl St	cHATTANOOGA	TN	ZIP37406-2936	Jacqueline	D	Turner	+1 (156) 931-6362	12/5/1963	j
McDonalds	Ice Cream Parlors	2301 N Washing...	FORREST CITY	AR	ZIP72335-1800	Christophe	S	Quinn	+1 (273) 871-3350	7/17/1965	c
CK Engineering Inc.	Audio-Visual Equi...	308 W Hunter St	IOGAN	Ohio	ZIP43138-1518	Christophe	E	Krannitz	+1 (973) 934-3940	5/20/1963	c
Chasm Woodworks	Burglar Bars	3801 E Roeser R...	pHOENIX	Arizona	ZIP85040-9051	Christophe		Hargrove	+1 (998) 753-3151	10/11/1957	c
Sonora Bakery & ...	Bakers-Retail	4434 W Thomas ...	pHOENIX	Arizona	ZIP85031-3700	Candelario		Mirilles	+1 (568) 714-1104	11/30/1967	c
Wells Fargo Bank	Banks	144 W Brigham Rd	sT GEORGE	Utah	ZIP84790-7470	Christopher	A	Jones	+1 (147) 602-4806	7/18/1958	c
Amertech Industr...	Tool & Die Makers	207 N 3rd St	aPOLLO	PA	ZIP15613-1307	Christopher	B	Liti	+1 (859) 755-1384	3/9/1963	c
American Family I...	Insurance	220 N Main St # 2	hUDSON	Ohio	ZIP44236-2801	Christopher	D	Zehnal	+1 (688) 620-3079	4/27/1958	c
						Horhe		Stick			

Fig. 4. Real Time Duplication Check application in action (inserting the unique record).

DataMatch Enterprise API Demo 3.3.9 (1.1.0) - sqlProject

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Get the most out of your data

Live Search | Real Time Duplicate Check

Frontend

☒ Use the cache table

Contact First Name:

Contact Last Name:

Search Criteria

☐ Use floating thresholds

General

Auto Match:

Manual Review:

Fields

Contact First Name (90%)

Contact Last Name (90%)

Backend

Record status: **DUPLICATE**

Score	Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name
100							Horhe		Stick

Database

Company Name	Industry	Address	City	State	ZIP	Contact First Name	Contact Middle Initial	Contact Last Name	Phone
Cbk Inc	Trust Service	1824 Harbor Isla...	oRANGE PARK	FL	ZIP32003-7256	Christophe	Y	King	+1 (238) 91
Jt Investment Pro...	Investor services	1915 Pearl St	cHATTANOOGA	TN	ZIP37406-2936	Jacqueline	D	Tumer	+1 (156) 93
McDonalds	Ice Cream Parlors	2301 N Washing...	FORREST CITY	AR	ZIP72335-1800	Christophe	S	Quinn	+1 (273) 87
CK Engineering Inc	Audio-Visual Equi...	308 W Hunter St	IOGAN	Ohio	ZIP43138-1518	Christophe	E	Krannitz	+1 (973) 93
Chasm Woodworks	Burglar Bars	3801 E Roeser R...	pHOENIX	Arizona	ZIP85040-9051	Christophe		Hargrove	+1 (998) 75
Sonora Bakery & ...	Bakers-Retail	4434 W Thomas ...	pHOENIX	Arizona	ZIP85031-3700	Candelario		Mirilles	+1 (568) 71
Wells Fargo Bank	Banks	144 W Brigham Rd	sT GEORGE	Utah	ZIP84790-7470	Christopher	A	Jones	+1 (147) 60
Ameritech Industr...	Tool & Die Makers	207 N 3rd St	aPOLLO	PA	ZIP15613-1307	Christopher	B	Liti	+1 (859) 75
American Family L...	Insurance	220 N Main St # 2	hUDSON	Ohio	ZIP44236-2801	Christopher	D	Zehnal	+1 (688) 62
						Horhe		Stick	

Fig.5 shows how this example works and shows that inserted data can't be inserted again.

Live Search | Real Time Duplicate Check

Frontend

☒ Use the cache table

Contact First Name:

Contact Last Name:

Threshholds

☒ Use floating thresholds

General

Auto Match:

Manual Review:

Fields

Contact First Name

Contact Last Name

Backend

Record status: **POTENTIAL DUPLICATE**

Score	Company Name	Industry	Address
97.14285717124...	Circle K Store	Snack Products	26290 N Tatum
97.14285717124...	Puritan Chrysler-P...	Automobile Deale...	1200 Cranston S...
97.14285717124...	UFE Inc	Plastics-Fabricati...	1462 Lionel Dr

Manual Record Review

Do you want to add the new record to the data source?

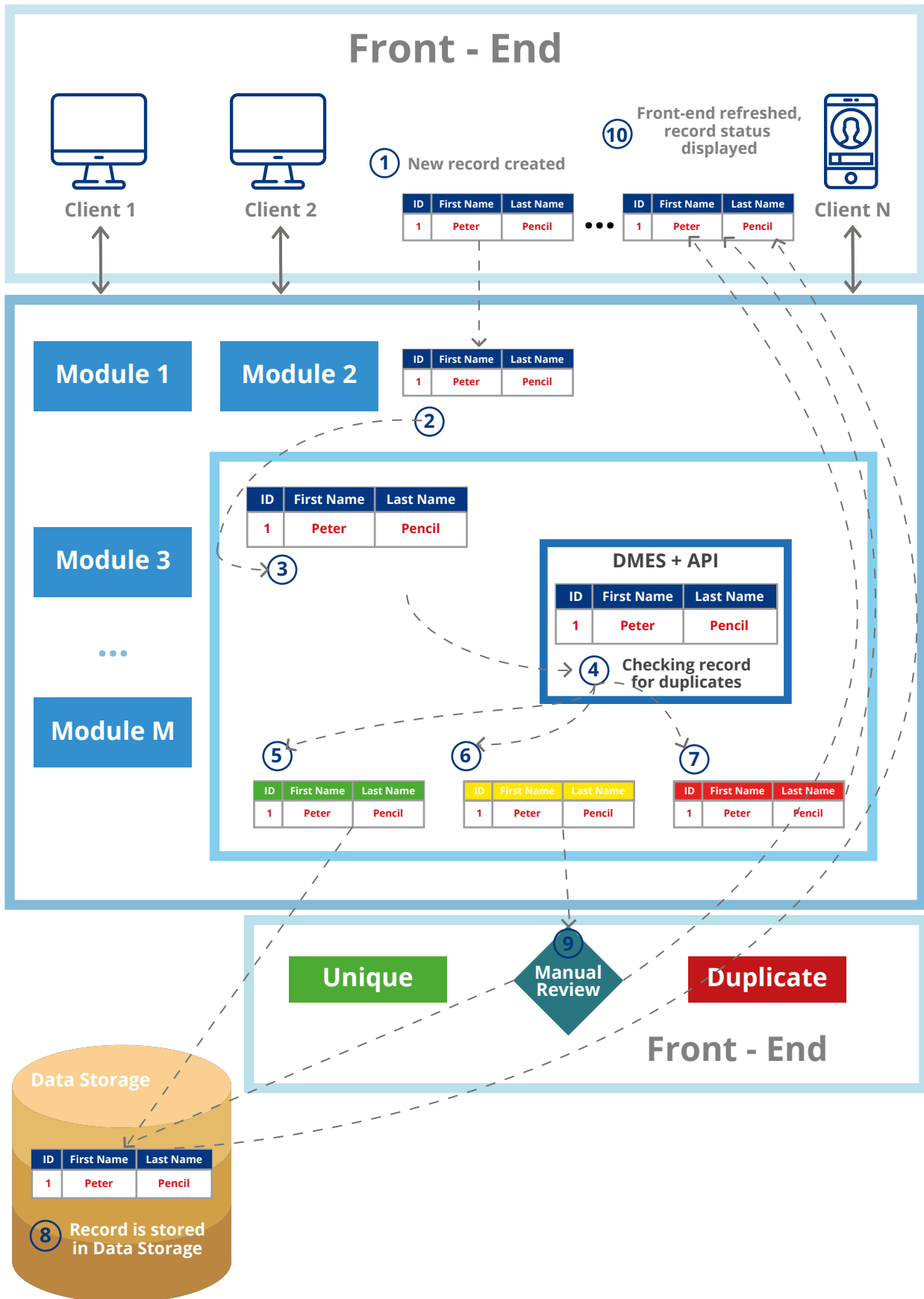
Number of similar records: 11

Contact First Name	Contact Middle Initial	Contact Last Name
Jan	S	Martin
Martin	S	Gertsacov
Martin	S	Kellog

Fig 6 shows inserting the records with score that is less than Auto Level and more than Manual Level.

Suppressing Management Schema

Schema describes all process that are done on Front-End, Back-End and API parts.



ABOUT US

Data Ladder is a data quality software company dedicated to helping business users get the most out of their data through data matching, profiling, deduplication, and enrichment tools. Whether it's matching millions of records through our fuzzy matching algorithms, or transforming complex product data through semantic technology, Data Ladder's data quality tools provide a superior level of service unmatched in the industry.

DataMatch Enterprise, was proven to find approximately 5-12% more matches than leading software companies IBM and SAS in 15 different studies.

- Unparalleled Matching Accuracy and Speed For Enterprise Level Data.
- Cleansing beating IBM and SAS.
- Proprietary Matching Algorithms with a high level of matching accuracy at blazing fast speeds on Desktop/Laptop Hardware.
- Big Data Capability with data sets up to 100 Million Records.
- Deduplication and Merge Purge within and across any number of files.
- Suppression of existing customers or Do Not Contact from marketing lists.
- Advanced record linking technology to create data warehouses.
- Quick Data Profile tool finds and fixes Data Quality issues within the first 5 minutes of setup to improve match quality.

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