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Geocoding with Photon

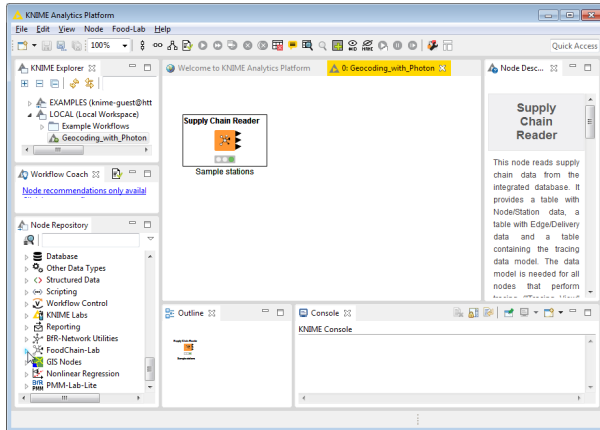
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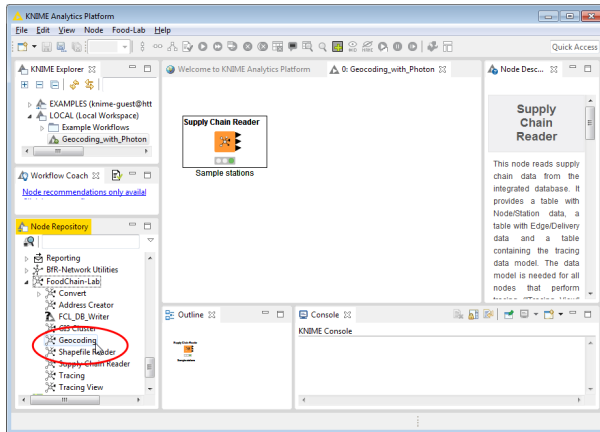
Learn

- what geocoding is
- how to use the Photon geocoding service

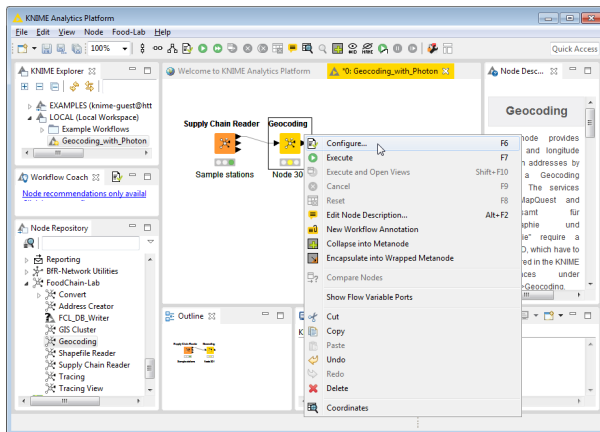
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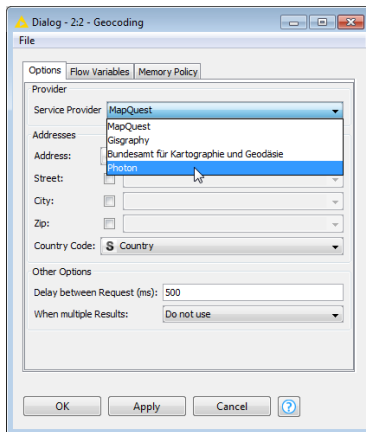
- Import the Geocoding workflow [“Geocoding_with_Photon.knwf”](#).



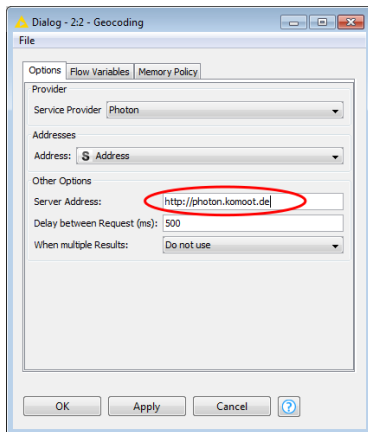
- To perform geocoding we need to add the **Geocoding** node. If the **Supply Chain Reader** is selected, double-click on the **Geocoding** node in the Node Repository.
- Another way to attach the **Geocoding** node to the **Supply Chain Reader** is to drag it from the Node Repository into the workflow editor and to connect the top output of the **Supply Chain Reader** with the input of the **Geocoding** node.



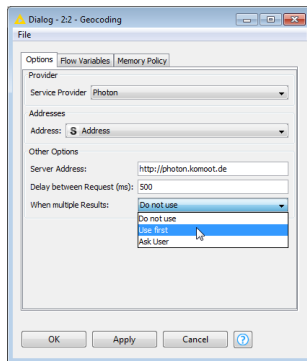
- The **Geocoding** node is connected to the **SupplyChainReader** and needs to be set up. Open its configuration by double clicking on it or by using its context menu (right click on the node, then choose “configure”).



- Please choose the Service Provider “Photon”.



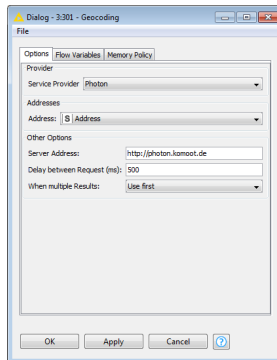
- The address is properly set, automatically.
- You need to set the server address. Please copy the URL <http://photon.komoot.de> into the respective field. This is a publicly available service.



- For many requests geocoding services return multiple results, for example, if there are two streets with identical names. In the dropdown menu “When multiple Results” you can decide how to deal with this.
- “Do not use”: All multiple results will be discarded.
 - “Use first”: The first entry of the multiple results list will be displayed for each address
 - “Ask User”: All multiple results will be displayed. The user needs to go through all results and pick the favourite one manually. This is a lot of work for large data sets.

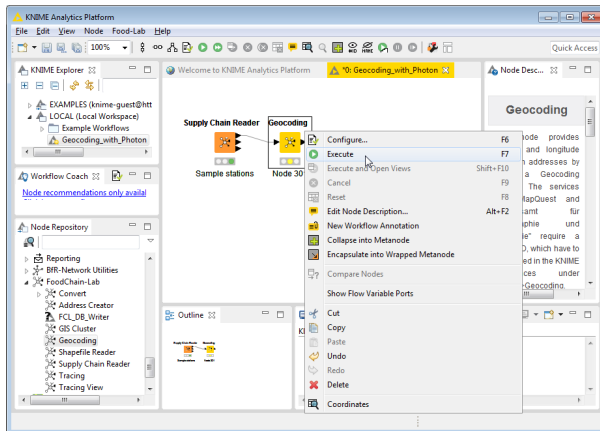
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- In this tutorial select “Use first” and click “OK”.

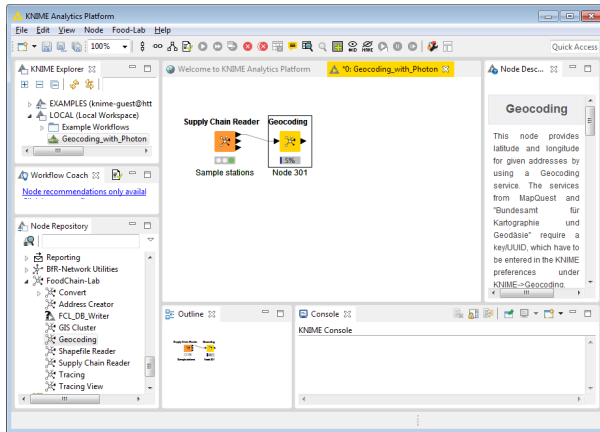
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- Right click on the **Geocoding** node and select “Execute”.

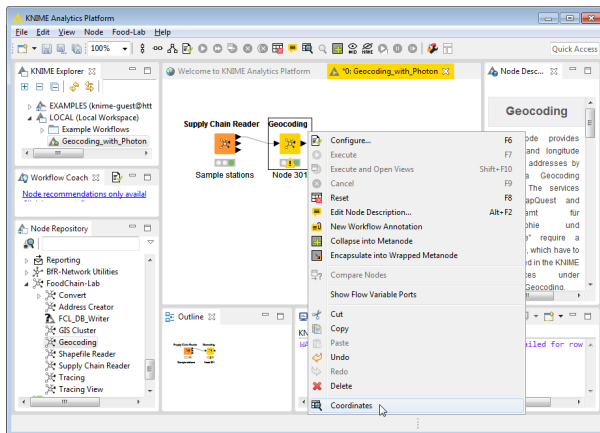
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- The execution might take a while.
- The progress bar under the node shows the percentage of data which has been processed.

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- When the execution is finished, we can look at the results.
- Right click on the **Geocoding** node and select “Coordinates”.

Coordinates - 0-2 - Geocoding									
File Hilitte Navigation View									
Table 'default' - Rows: 40 Spec - Columns: 16 Properties Flow Variables									
Row ID	ID	Name	Address	Country	Simple5...	DeadStart	DeadEnd	GeocodingURL	
Row0	-209454963	Kron Marles	Schongauer Strasse 60, 82383 Peissenberg	DE	false	false	false	http://photon.komoot.de/api?q=Schongauer++Strasse+60%2C+82383+Peissenberg&osm_tag=...	
Row1	-1938530088	Jung Peter	Eigenstrasse 2, 87527 SONTHOFFEN	DE	false	false	false	http://photon.komoot.de/api?q=Eigenstrasse+2%2C+87527+SONTHOFFEN&osm_tag=highway=reside...	
Row2	-1696638660	Schuch Ralf	Im Thal 2, 82377 Penzberg	DE	false	false	false	http://photon.komoot.de/api?q=Im+Thal+2%2C+82377+Penzberg&osm_tag=highway=residents...	
Row3	-1648474284	Martin Paul	Hauptstrasse 3, 79004 Dögen	DE	false	false	false	http://photon.komoot.de/api?q=Hauptstrasse+3%2C+79004+Dögen&osm_tag=highway=reside...	
Row4	-1629790613	Anbretter R...	Hauptstrasse 17, 83075 Au	DE	false	false	false	http://photon.komoot.de/api?q=Hauptstrasse+17%2C+83075+Au&osm_tag=highway=residents...	
Row5	-1596026098	Bühler	Kleine Breite 2, 70187 Gessingen	DE	false	false	false	http://photon.komoot.de/api?q=Kleine+Breite+2%2C+70187+Gessingen&osm_tag=highway=res...	
Row6	-146409396	Planthaler Z...	Salz Strasse 12, 83451 Piding	DE	false	false	false	http://photon.komoot.de/api?q=Salz+Strasse+12%2C+83451+Piding&osm_tag=highway=residen...	
Row7	-1393724210	Hecht	Herzog-Albrecht-Allee 49, 88361 Althausen	DE	false	false	false	http://photon.komoot.de/api?q=Herzog-Albrecht-Allee+49%2C+88361+Althausen&osm_tag=high...	
Row8	-1269648160	Bächle Bern...	Hauptstrasse 125, 79689 Schopfheim	DE	false	false	false	http://photon.komoot.de/api?q=Hauptstrasse+125%2C+79689+Schopfheim&osm_tag=highway...	
Row9	-1223754456	Kracht Roland	Römerstrasse 13, 79541 Lorrach	DE	false	false	false	http://photon.komoot.de/api?q=Römerstrasse+13%2C+79541+L%2C%3%80rrach&osm_b...	
Row10	-1188454082	Frank Adolf	Dammkarlstrasse 39, 82481 Mittenwald	DE	false	false	false	http://photon.komoot.de/api?q=Dammkarlstrasse+39%2C+82481+Mittenwald&osm_tag=highwa...	
Row11	-1147021509	Grabl	Transtener Strasse 2, 83329 Waging	DE	false	false	false	http://photon.komoot.de/api?q=Transtener+Strasse+2%2C+83329+Waging&osm_tag=highwa...	
Row12	-1042110371	Sautter Alfons	Bodenweentasse 106, 88682 Memmenhausen	DE	false	false	false	http://photon.komoot.de/api?q=Bodenweentasse+106%2C+88682+Mennenhausen&osm_tag=th...	
Row13	-937266750	RADLER H...	GRÜNTENSTRASSE 7, 87527 SONTHOFFEN	DE	false	false	false	http://photon.komoot.de/api?q=GRÜNTENSTRASSE+7%2C+87527+SONTHOFFEN&osm_tag=tag...	
Row14	-880001194	WAGNER XA...	HAUPTSTRASSE 47, 83324 RUHPOLDING	DE	false	false	false	http://photon.komoot.de/api?q=HAUPTSTRASSE+47%2C+83324+RUHPOLDING&osm_tag=highw...	
Row15	-864223178	CRKA ERKA	SCHULMANNSTRASSE 5, 83059 KOLBERM...	DE	false	false	false	http://photon.komoot.de/api?q=SCHULMANNSTRASSE+5%2C+83059+KOLBERMOOR&osm_tag=...	
Row16	-564921780	Riescher Peter	Badeweg 3, 87509 Immenstadt	DE	false	false	false	http://photon.komoot.de/api?q=Badeweg+3%2C+87509+Immenstadt&osm_tag=highway=reside...	
Row17	-552693339	Mayer Wolf...	Ludwigstrasse 26, 83278 Traunstein	DE	false	false	false	http://photon.komoot.de/api?q=Ludwigstrasse+26%2C+83278+Traunstein&osm_tag=highway:r...	
Row18	-510653229	Voggel Anton	Vieher Strasse 5, 87527 Pfaffen	DE	false	false	false	http://photon.komoot.de/api?q=Vieher+Strasse+5%2C+87527+Pfaffen&osm_tag=highway=res...	
Row19	-222074612	Guggenbichl...	Münchner Strasse 11, 83701 Gmund	DE	false	false	false	http://photon.komoot.de/api?q=M%2C%3%83701+Gmund&osm_tag=...	
Row20	-207748530	Kerscher An...	Kaiserstrasse 19, 83022 Rosenheim	DE	false	false	false	http://photon.komoot.de/api?q=Kaiserstrasse+19%2C+83022+Rosenheim&osm_tag=highway(r...	
Row21	-130075597	Speth Wolf...	Friedhofstrasse 6, 88250 Weingarten	DE	false	false	false	http://photon.komoot.de/api?q=Friedhofstrasse+6%2C+88250+Weingarten&osm_tag=highway...	
Row22	-117421376	Müller Bernd	Maienlandstrasse 5, 79843 Löffingen	DE	false	false	false	http://photon.komoot.de/api?q=Maienlandstrasse+5%2C+79843+L%2C%3%80ffingen&osm_tag=i...	
Row23	-191556729	Libotte Wald...	Robert Koch Strasse 1, 82547 Eurasburg	DE	false	false	false	http://photon.komoot.de/api?q=Robert+Koch+Strasse+1%2C+82547+Eurasburg&osm_tag=high...	
Row24	-303276716	Wiesler	Hennersstrasse 24, 86353 Kallgig	DE	false	false	false	http://photon.komoot.de/api?q=Hennersstrasse+24%2C+86353+Kallgig&osm_tag=highway(res...	
Row25	-543990471	Van Ikenes	Wilhelm-Stahl-Strasse 6, 79822 Tübingen	DE	false	false	false	http://photon.komoot.de/api?q=Wilhelm-Stahl-Strasse+6%2C+79822+Tübingen+Neudorf&osm_b...	
Row26	-807302264	Brosch Gerhard	Max-Josef-Strasse 14, 83109 Grosskaroln...	DE	false	false	false	http://photon.komoot.de/api?q=Max-Josef-Strasse+14%2C+83109+Grosskarolnfeld&osm_tag=...	
Row27	-872972743	Heckman An...	Nebelhornstrasse 46, 87961 Oberstdorf	DE	false	false	false	http://photon.komoot.de/api?q=Nebelhornstrasse+46%2C+87961+Oberstdorf&osm_tag=highw...	
Row28	-954980192	Geyer Josef	Gartenstrasse 30, 89410 Bad Wurzach	DE	false	false	false	http://photon.komoot.de/api?q=Gartenstrasse+30%2C+89410+Bad+Wurzach&osm_tag=highw...	
Row29	-959356350	ERATH GERN	HOHENZOLLERNSTRASSE 42, 88639 WALD	DE	false	false	false	http://photon.komoot.de/api?q=HOHENZOLLERNSTRASSE+42%2C+88639+WALD&osm_tag=high...	
Row30	-1086124279	Dehn Otto ...	Am Uttenbacher Weg 15, 88630 Pfaffendorf	DE	false	false	false	http://photon.komoot.de/api?q=Am+Uttenbacher+Weg+15%2C+88630+Pfaffendorf&osm_tag=high...	
Row31	-1200618531	Otto	Letzingen 11, 79629 Grenzach-Wyhlen	DE	false	false	false	http://photon.komoot.de/api?q=Letzingen+11%2C+79629+Grenzach-Wyhlen&osm_tag=highw...	
Row32	-1236984197	Pantle Ron...	Petersgasse 3, 82438 Murnau	DE	false	false	false	http://photon.komoot.de/api?q=Petersgasse+3%2C+82438+Murnau&osm_tag=highway=residen...	
Row33	-1380661909	Eber Josef	Obere Stadt 55, 82362 Weilheim	DE	false	false	false	http://photon.komoot.de/api?q=Obere+Stadt+55%2C+82362+Weilheim&osm_tag=highway=resi...	
Row34	-1497169052	Armmergue...	Schützlergasse 9, 82487 Oberammergau	DE	false	false	false	http://photon.komoot.de/api?q=Schützlergasse+9%2C+82487+Oberammergau&osm_tag=highw...	
Row35	-1537444135	BRUNNER K...	GRASSAUER STRASSE 46, 83236 Uebersee	DE	false	false	false	http://photon.komoot.de/api?q=GRASSAUER+STRASSE+46%2C+83236+U%2C%3%80Uebersee&osm...	
Row36	-1584336686	Staudinger ...	Andreas-Schmidner-Strasse 11, 82362 W...	DE	false	false	false	http://photon.komoot.de/api?q=Andreas-Schmidner-Strasse+11%2C+82362+Weilheim&osm_b...	

■ In the dialog that pops up, you can look at the whole data table.

Coordinates - 0.2 - Geocoding

File Hiltie Navigation View

Table "default" - Rows: 40 Spec. Columns: 16 Properties: 16 Variables

Row ID		GeocodingSt...	Geocod...	Geocod...	Geocod...	Geocod...	Geocod...	Latitude	Longitude
Row0	ot.de/api?q=Schongauer+Strasse+60%2C+82383+Peissenbergsm_tag=highway=residential&limit=2	Schongauer Straße	Peissenberg	?	Bavaria	Germany	82380	47.791	11.061
Row1	ot.de/api?q=Bogenstrasse+2%2C+87527+SONTHOFENsm_tag=highway=residential&limit=2	Bogenstraße	Sonthofen	?	Bavaria	Germany	87527	47.512	10.28
Row2	ot.de/api?q=In Thel+7%2C+82377+Penzbergsm_tag=highway=residential&limit=2	In Thel	Penzberg	?	Bavaria	Germany	82377	47.756	11.377
Row3	ot.de/api?q=Hauptstrasse+3%2C+79004+Dogenheim_tag=highway=residential&limit=2	Hauptstraße	Dogen	?	Baden-Würt...	Germany	79004	47.607	8.168
Row4	ot.de/api?q=Hauptstrasse+17%2C+83075+Außernsm_tag=highway=residential&limit=2	Hauptstraße	Nordwestuc...	?	Brandenburg	Germany	17291	53.335	13.653
Row5	ot.de/api?q=Kleine+Breite+2%2C+78387+Gessingensm_tag=highway=residential&limit=2	Kleine Breite	Gessingen	?	Baden-Würt...	Germany	78387	47.924	8.641
Row6	ot.de/api?q=Salz Strasse+12%2C+83451+Pidingsm_tag=highway=residential&limit=2	Salzburger Straße	Piding	?	Bavaria	Germany	83451	47.772	12.915
Row7	ot.de/api?q=Herzog-Albrecht-Allee+49%2C+88361+Althausenism_tag=highway=residential&limit=2	Herzog-Albrecht...	Althausen	?	Baden-Würt...	Germany	88361	47.932	9.946
Row8	ot.de/api?q=Kupferstrasse+125%2C+79699+Kupferheimsm_tag=highway=residential&limit=2	Kupferstraße	Münzburg	?	Baden-Würt...	Germany	79699	47.645	7.775
Row9	ot.de/api?q=H.N.C.Häfnerstrasse+17%2C+79541+H.N.C.Häfnerschloism_tag=highway=residential&limit=2	Römerstraße	Lörrach	?	Baden-Würt...	Germany	79541	47.629	7.698
Row10	ot.de/api?q=Dammkarlstrasse+39%2C+83481+Mittenwaldism_tag=highway=residential&limit=2	Dammkarlstraße	Mittenwald	?	Bavaria	Germany	83481	47.442	11.266
Row11	ot.de/api?q=Traunsteiner+Strasse+2%2C+83329+Viaringism_tag=highway=residential&limit=2	Traunsteiner Straße	Vönnberg	?	Bavaria	Germany	83329	47.9	12.691
Row12	ot.de/api?q=Bodenseestrasse+106%2C+88682+Minnenhausenism_tag=highway=residential&limit=2	Bodenseestraße	Salem	?	Baden-Würt...	Germany	88682	47.764	9.285
Row13	ot.de/api?q=GRÜNTENTSTRASSE+7%2C+87527+SONTHOFENsm_tag=highway=residential&limit=2	Grüntentstraße	Sonthofen	?	Bavaria	Germany	87527	47.514	10.279
Row14	ot.de/api?q=H.HALPTSTRASSE+47%2C+83324+H.HALPOLDINGism_tag=highway=residential&limit=2	Hauptstraße	Ruhpolding	?	Bavaria	Germany	83324	47.761	12.649
Row15	ot.de/api?q=SCHLAMPENSTRASSE+5%2C+83059+HOLBERGsm_tag=highway=residential&limit=2	Schlampenstrasse	Koblenz	?	Bavaria	Germany	83059	47.85	12.065
Row16	ot.de/api?q=Bedeveg+3%2C+87059+Immenstadtism_tag=highway=residential&limit=2	Bedeveg	Immenstadt	?	Bavaria	Germany	87059	47.561	10.211
Row17	ot.de/api?q=Ludwigstrasse+26%2C+83278+Traunsteinism_tag=highway=residential&limit=2	Ludwigstraße	Traunstein	?	Bavaria	Germany	83278	47.871	12.642
Row18	ot.de/api?q=Weiler+Strasse+3%2C+87527+Hofenism_tag=highway=residential&limit=2	?	?	?	?	?	?	?	?
Row19	ot.de/api?q=M.N.C.3%2C+83703+Grundism_tag=highway=residential&limit=2	Münchner Straße	Gmund	?	Bavaria	Germany	83703	47.762	11.733
Row20	ot.de/api?q=Kaisersstrasse+19%2C+83022+Rosenheimism_tag=highway=residential&limit=2	Kaisersstraße	Rosenheim	?	Bavaria	Germany	83022	47.858	12.128
Row21	ot.de/api?q=Frederichstrasse+46%2C+88120+Frederichshausenism_tag=highway=residential&limit=2	Frederichstraße	Wiesinger ten	?	Baden-Würt...	Germany	88120	47.804	9.639
Row22	ot.de/api?q=Mainlandstrasse+57%2C+79843+H.N.C.Häfnerschloism_tag=highway=residential&limit=2	Mainlandstraße	Löffingen	?	Baden-Würt...	Germany	79843	47.892	8.339
Row23	ot.de/api?q=Robert+Koch+Strasse+1%2C+82547+Eurasburgism_tag=highway=residential&limit=2	Robert-Koch-Straße	Eurasburg	?	Bavaria	Germany	82547	47.857	11.408
Row24	ot.de/api?q=Herrenstrasse+244%2C+88353+Köslingism_tag=highway=residential&limit=2	Herrenstraße	Kölling	?	Baden-Würt...	Germany	88353	47.788	9.883
Row25	ot.de/api?q=Wilhelm+Stahl+Strasse+6%2C+79822+Tilsee-Neustadtism_tag=highway=residential&limit=2	Wilhelm-Stahl-Str...	Tilsee-Neus...	?	Baden-Würt...	Germany	79822	47.909	8.217
Row26	ot.de/api?q=Max-Josef+Strasse+14%2C+83209+Grassauernfeldism_tag=highway=residential&limit=2	Max-Josef-Straße	Gröfkaroline...	?	Bavaria	Germany	83209	47.887	12.075
Row27	ot.de/api?q=Neubornstrasse+46%2C+87561+Oberndorfism_tag=highway=residential&limit=2	Neubornstraße	Oberndorf	?	Bavaria	Germany	87561	47.407	10.265
Row28	ot.de/api?q=Gartenstrasse+38%2C+88410+Bad+Wurachism_tag=highway=residential&limit=2	Gartenstraße	Bad Wurach	?	Baden-Würt...	Germany	88410	47.908	9.894
Row29	ot.de/api?q=HOHENZOLLENSTRASSE+42%2C+88639+WALDsm_tag=highway=residential&limit=2	Hohenzollenstraße	Wald	?	Baden-Würt...	Germany	88639	47.933	9.172
Row30	ot.de/api?q=Am+Litzelbacher+Weg+15%2C+88630+Pfulldorfism_tag=highway=residential&limit=2	Am Litzelbacher ...	Pfulldorf	?	Baden-Würt...	Germany	88630	47.933	9.237
Row31	ot.de/api?q=Letteweg+11%2C+79639+Grenzach-Wyhlenism_tag=highway=residential&limit=2	Letteweg	Grenzach-W...	?	Baden-Würt...	Germany	79639	47.549	7.622
Row32	ot.de/api?q=Petersgasse+3%2C+82418+Munnaism_tag=highway=residential&limit=2	Petersgasse	Munna am ...	?	Bavaria	Germany	82418	47.679	11.2
Row33	ot.de/api?q=Obere+Stadt+55%2C+82362+Weilheimism_tag=highway=residential&limit=2	Obere Stadt	Weilheim in ...	?	Bavaria	Germany	82362	47.838	11.151
Row34	ot.de/api?q=Schmidengasse+5%2C+82487+Oberammerism_tag=highway=residential&limit=2	Schmidengasse	Oberammer...	?	Bavaria	Germany	82487	47.597	11.065
Row35	ot.de/api?q=GRASSAUER+STRASSE+46%2C+83336+3%2C+Grassauernfeldism_tag=highway=residential&limit=2	Grassauer Straße	Überssee	?	Bavaria	Germany	83336	47.82	12.481
Row36	ot.de/api?q=Andreas-Schmidt-Strasse+11%2C+82362+Weilheimism_tag=highway=residential&limit=2	Andreas-Schmidt...	Weilheim in ...	?	Bavaria	Germany	82362	47.843	11.147

■ Scroll to the right to look at the columns with latitude and longitude (the two rightmost columns).

■ For 39 out of 40 addresses longitude and latitude could be found. One geocoding request was not successful.