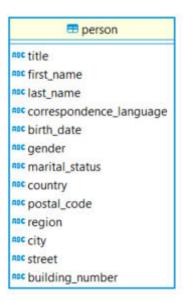
1. Загружаем файл в таблицу, чтобы было удобнее работать дальше:

```
otusdb> Script-1 × 1 *<otusdb> Script-2
 CREATE table person (
   title text,
   first_name text,
   last_name text,
   correspondence language text,
   birth date text,
   gender text,
   marital_status text,
   country text,
   postal code text,
   region text,
   city text,
   street text,
   building number text
   );
  load data infile 'some customers.csv'
   into table person
   FIELDS TERMINATED BY ','
   ENCLOSED BY ""
   lines terminated by '\n'
   IGNORE 1 ROWS;
```

2. Делаем выборку, проверяем, что все успешно загружено:



3. Структура пока что из одной таблицы, все вместе:



4. Анализируем, добавляем необходимые таблицы. Создала также таблицы contact и company, но на данном этапе в них записывать нечего:

```
create table customer (
 customer_id int primary key not null auto_increment,
 title varchar(32),
 first_name varchar(32),
 last_name varchar(64),
correspondence_language varchar(16),
birth_date date default '1000-01-01'
 gender enum('male', 'female', 'Unknown') default 'Unknown',
 marital_status varchar(10),
 check(gender in (0, 1, 2, 9)),
 company_id int,
 foreign key (company_id) references company (company_id),
 address_id int,
 foreign key (address_id) references address (address_id),
 contact_id int,
 foreign key (contact_id) references contact (contact_id)
create table address (
 address_id int primary key not null auto_increment,
 country varchar(32),
 postal_code varchar(12),
 region varchar(64),
 city varchar(64),
 street text,
 building number varchar(10)
 );
create table contact (
 contact_id int primary key not null auto_increment,
 phone varchar(16),
 email varchar(32)
create table company (
 company_id int primary key not null auto_increment,
 name varchar(32),
 address varchar(64),
 phone varchar(16)
 );
```

5. Начинаем запись отдельно в каждую таблицу:

```
DO LOAD DATA INFILE 'some_customers.csv'
INTO TABLE `address`
 FIELDS TERMINATED BY ','
ENCLOSED BY ""
LINES TERMINATED BY '\n'
IGNORE 1 ROWS
(@a, @b, @c, @d, @e, @f, @g, country, postal_code, region, city, street, building_number); -- @a, @b, @c и тд просто отбросим здесь
DATA INFILE 'some_customers.csv'
INTO TABLE customer
FIELDS TERMINATED BY ','
 ENCLOSED BY
LINES TERMINATED BY '\n'
IGNORE 1 ROWS
 (title, first_name, last_name, correspondence_language, @birth_date, @gender, marital_status, @a, @b, @c, @d, @e, @f)
else @birth_date
               end,
    gender = case @gender
               when '' then 'Unknown'
               else @gender
               end
```

6. Создаем процедуру для заполнения адресов клиентов:

7. Вызываем, и смотрим, что получилось:

```
CALL insert_address((select count(address_id) from address a));
select * from customer;
select * from address;
```

Customer:

ect - from custo	mer iv	■ Beedume S	QL выражение чп	побы отфильтров	ать результаты						
187 customer	id VI	noc title VI	noc first_name T	noc last_name VI	asc correspondence_language V:	o birth_date T:	noc gender	VI noc marital_status VI	12 company_id 71	¹²∄ address_id ₹ ‡	12 contact_id VI
1	1	Dr.	Danilo	Ambrosini	IT	1900-01-01	Unknown			10"	
2	2	Mrs	Deborah	Thomas		1000-01-01	female		[NULL]	20	[NULL]
3	3	Herr	Markus	Hönninge	DE	1900-01-01	male		[NULL]	3 🗗	[NULL]
4	4	Mrs	Sheila	Spiller	EN	1000-01-01	Unknown		[NULL]	4 07	[NULL]
5	5	Mrs	Rosemary	Bailey	EN	1000-01-01	Unknown		[NULL]	5 🖻	[NULL]
6	6	Mr	G	Russell	EN	1900-01-01	male		[NULL]	60	[NULL]
7	7	Mr	Mark	Robins	EN	1000-01-01	male		[NULL]	78	[NULL]
8	8	Mrs	Elaine	Thomson	EN	1900-01-01	female		[NULL]	8 🗗	[NULL]
9	9		Mario	Bartolucci	IT	1900-01-01	male		[NULL]	98	[NULL]
10	10	Herr	Marvin	Brockob	DE	1900-01-01	male		[NULL]	10 ₪	[NULL]
11	11	Mrs	Kathleen	Renshaw	EN	1000-01-01	female		[NULL]	11 😅	[NULL]
12	12	Frau	Katharina	Meyer	DE	1900-01-01	female		[NULL]	12 🗗	[NULL]
13	13	Pan	Krzysztof	Gres	PL	1900-01-01	male		[NULL]	13 🖾	[NULL]
14	14	Frau	Ivonne	Sommer	DE	1900-01-01	female		[NULL]	14 🖾	[NULL]
15	15	Mr	P	Page	EN	1900-01-01	male		[NULL]	15 🖾	[NULL]
16	16	Miss	D	France	EN	1000-01-01	female		(NULL)	16 🖾	[NULL]
17	17	Mrs	Jean	Blonfield	EN	1000-01-01	female		[NULL]	17 🗗	[NULL]
18	18	Monsieur	Frederic	Locquet	FR	1900-01-01	male		[NULL]	18 🖾	[NULL]
19	19	Frau		A0230326	DE	1900-01-01	female		[NULL]	19 ₪	[NULL]
20	20	Frau	Susann	Wiffler	DE	1900-01-01	female		[NULL]	20 ₺	[NULL]
21	21			Haugen pål	NO	1900-01-01	Unknown		[NULL]	21 🗗	[NULL]
22		Miss	Hayley	Walden	EN	1900-01-01	female		[NULL]	22 ₪	INULLI
23	23	Frau	Linda	Sabi	DE	1900-01-01	female		[NULL]	23 🖾	TNULLI
24	24	Mr	Kyle	Richardson		1000-01-01	Unknown		[NULL]	24 🔊	[NULL]
25	25		Simon	Pritchard	EN	1000-01-01			[NULL]	25 🗗	INULLI
26	26	Mrs	Nazia	Ilyas	EN	1000-01-01	female		[NULL]	26 🖾	[NULL]
27		Pan	Zbigniew	Kaczmarek	PL	1900-01-01			[NULL]	27 🗗	INULLI
28	28		Philip	Wales	EN	1900-01-01			[NULL]	28 🖾	INULLI
29		Monsieur	Fabien	Legrand	FR	1900-01-01			[NULL]	29 🗗	INULL
30		Mrs	E	Shuttleworth	EN	1900-01-01			[NULL]	30 🖒	INULLI
31	31		Live	New	FR	1900-01-01			[NULL]	31 😅	[NULL]
32		Herr	Florian	Streb	DE	1900-01-01			[NULL]	32 📽	[NULL]
33	33			Spronk	NL	1900-01-01			[NULL]	33 🖾	[NULL]
34		Paní	Iveta	Piskackova	CS	1900-01-01			(NULL)	34 🖾	(NULL)
35	35			Constitution of the Consti	100	1000-01-01			[NULL]	35 🛍	INULLI
36		Frau	Gabriele	Guidi	DE	1900-01-01			[NULL]	36 🖾	INULLI
37		Meyr.		Klein	NL	1900-01-01			[NULL]	37 🖒	[NULL]
38			Yann	Malayaud	FR	1900-01-01			INULLI	38 🗈	INULLI
39		Mrs	M	Aylesbury	EN	1000-01-01			[NULL]	39 🗗	[NULL]
40	40			Jovnson	EN	1000-01-01			INULLI	40 8	[NULL]

Address:

	¹ ∰ address_id 🦷	noc country 7:	postal_code 1	noc region 1:	noc city 7:	nac street T	building_number 1
1	1	IT	21100		Varese	Via dolomiti	13
2	2	GB	RH16 3TQ		Haywards heath	Cobbetts mead	31
3	3	DE	69493		Hirschberg an der bergstraße	Breitgasse 5a	
4	4	GB	TN6 1ST	East sussex	Crowborough	Ghyll road	
5	5	GB	NR34 7SH		Beccles	Pepys avenue	24
6	6	GB	FK6 6BW		Denny	Leslie park	
7	7	GB	BS7 0EY		Horfield	Flat 6	
8	8	GB	NG24 3LL		Newark	38 main street	
9	9	IT	60018	Ancona	Montemarciano	Via dei Iarici	23
10	10	DE	40233		Düsseldorf	Langerstr 51	
11	11	GB	YO31 7YG		York	East parade	134
12	12	DE	01309		Dresden	Geisingstr 29	
13	13	PL	70-812		Szczecin	UI pomorska 105/1	
14	14	DE	24106		Kiel	Charles-roß-ring 20	
15	15	GB	TN37 7QF		St leonards-on-sea	85 seven acre close	
16	16	GB	BL5 3WA		Bolton	Madison park	11
17	17	GB	TR1 2DZ	Comwall	Truro	Carclew street	39
18	18	BE	7191		Ecaussinnes-lalaing	Rue de l'hayette /ca correspond a la rue du poirier 35 gps/	8
19	19	DE	03460			6230320a	
20	20	DE	65201		Wiesbaden	Rheingaustr 16	
21	21	NO	4280		Skudeneshavn	Alterfjellet 18b	
22	22	GB	RH4 3QR	Surrey	Dorking	Bailey road	47
23	23	DE	22419		Hamburg	Dortmunder str 52	
24	24	GB	PR5 6EL		Preston	Station road	380
25	25	GB	WV6 8LF		Wolverhampton	Sandy hollow	31
26	26	GB	PR1 5NP		Preston	Wilbraham street	102
27	27	PL	77-330		Czame	Kościuszki	42
28	28	IE		Offaly	Birr	Eden cottages	4
29	29	FR	60190		Moyvillers	175 rue du pre st martin	
30	30	GB	BB6 7TH		Great harwood	17 worston lane	
31	31	BE	4081		Esch/alzette	Dicks	13
32	32	DE	65550		Limburg	Habichtstr 3	
33	33	NL	3641 BA	Utrecht	Mijdrecht	Bucho van montzimastraat	19
34	34	CZ	267 62		Osek	Osek 2	
35	35		29027	Piacenza	Podenzano	Via papa giovanni xxiii	1 - 29
36	36		65439		Flörsheim am main	Hauptstr 38	
37	37		2625 RL		Delft	Beethovenlaan	155
38	38		69600		Oullins	13 rue salvador allende	
39	39		R93 E3H7		Carlow	Crossneen manor leighlin road	36
40	40		ST6 8AN		Stoke-on-trent	Hesketh avenue	1

8. Структура в результате:

