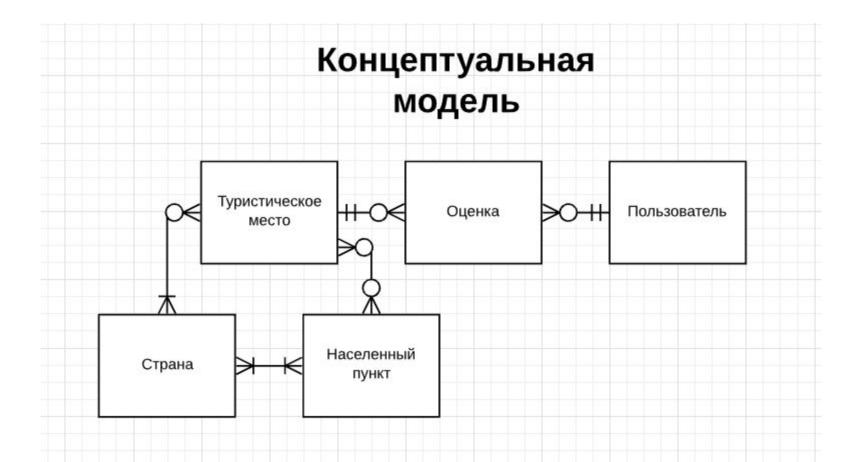
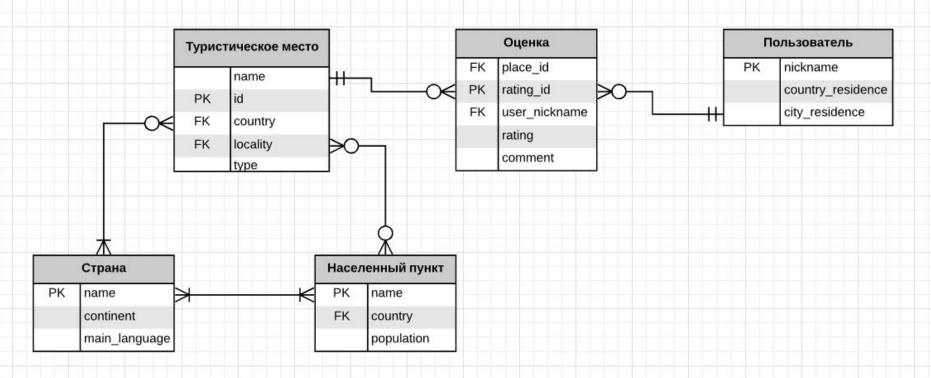
Проект по курсу "Базы данных"

"База туристических мест с рейтингом"

Выполнил Кудрявцев Иван Семинарист Медведева Анастасия 2019 год



Логическая модель



		🛂 country_name	‡	≣ continent	🕈 🔢 main	_language	\$
	1	Russia		Europe	Russia	n	
	2	The United Kingdom		Europe	Englis	h	
	3	The United States	of America	North America	Englis	h	
	4	Japan		Asia	Japane	se	
	5	Korea		Asia	Korean		
	6	Spain		Europe	Spanis	h	
	7	New Zealand		Australia/Oceania	Englis		
	8	Sweden		Europe	Swedis		
	9	Angola		Africa	Portug		
	10	Brazil		South America	Portug		
	11	Israel		Asia	Hebrew		+
	1000000		Manage 1			300000	
	🧗 loc	ality_name \$	📭 country			III p	opulation +
L	Saint	Petersburg	Russia				5350000
	Dmitr	.0∆	Russia				61000
	Londo	on:	The United	Kingdom			8500000
1	Los A	ingeles	The United	States of America	l.		3900000
5	Miami		The United	States of America	i		463000
	Kyoto		Japan				1400000
7	Barce	lona	Spain				1600000
	Chris		Sparii				
		tchurch	New Zealand	i			375000
	Gotek			i			
	Gotek Luand	org	New Zealand				375000
		oorg la	New Zealand Sweden	i			375000 570000
	Luand	oorg la .lia	New Zealand Sweden Angola	ı			375000 570000 2400000

Japan

	■ spot_name	\$ 🧦 id 🗧	•	country	\$	📭 locality	‡	I type	‡
1	Moscow Kremlin		1	Russia		Moscow		Kremlin	
2	Bolshoi Theatre		2	Russia		Moscow		Theatre	
3	Sokolniki Park		3	Russia		Moscow		Park	
4	The State Hermitage Museum		4	Russia		Saint Petersburg		Museum	
5	The Lahta Center		5	Russia		Saint Petersburg		Skyscraper	
6	Saint Isaacs Cathedral		6	Russia		Saint Petersburg		Cathedral	
7	Dmitrovs Kremlin		7	Russia		Dmitrov		Kremlin	
8	Tower Bridge		8	The United Kingdom		London		Bridge	
9	Museum of London		9	The United Kingdom		London		Museum	
10	Hollywood sign	1	0	The United States of America		Los Angeles		Sign	
11	The Vincent Thomas Bridge	1	1	The United States of America		Los Angeles		Bridge	
12	Miami Beach	1	2	The United States of America		Miami		Beach	
13	Tokyo Skytree	1	3	Japan		Tokyo		Tower	
14	Kyoto Imperial Palace	1	4	Japan		Kyoto		Palace	
15	Kyoto Tower	1	5	Japan		Kyoto		Tower	
16	Palau Nacional	1	6	Spain		Barcelona		Palace	
17	ChristChurch Cathedral	1	7	New Zealand		Christchurch		Cathedral	
18	Sao Paulo Cathedral	1	8	Brazil		Sao Paulo		Cathedral	
19	The Garden Tomb	1	9	Israel		Jerusalem		Tomb	

	₽₽ place_id ₹	₽: rating_id ÷	user_nickname \$	∎ rating ₹	■ comment	₹	
1		101	kayman233	10	Cool!		
2		102	kayman233		A nice place		
3		103	kayman233		I live here!!		
4		104	user123				
5	13	105	user123				
6	19	106	user123				1
7	15	107	user123	10			
8	15	108	user123	10			
9	16	109	kayman233		Amazing		
10	13	110	chingchong		Yeee		
11	14	111	chingchong		Yee		
12	15	112	chingchong		Yeee		
13		113	xxx_Vasya_xxx		BORING		
14		114	xxx_Vasya_xxx		BORING		
15		115	xxx_Vasya_xxx		BORING		
16		116	Maria	10	WOW		
17		118	Maria	10	owo		
18	17	119	Maria	10	oWo		
19		120	Valter	10	Muy bonito		
20	10	121	Valter		Me gusta		
21	11	122	Valter		Bonito		
22		123	Valter		Me encanta		
23		117	Maria		טשט		
						*10	

🛂 nickname	country_residence	■ city_residence
1 000	12.0 F	12: 13: T

xxx_Vasya_xxx

Польза

- 1. Можно использовать для backend-a
- 2. Использовать в домашних целях
- 3. Данные можно анализировать!

Запросы

```
SELECT tourism.countries.country name
FROM tourism.countries
WHERE countries.main language = 'English';
SELECT tourism.countries.country name, SUM(tourism.localities.population)
FROM tourism.countries
INNER JOIN tourism.localities ON tourism.localities.country = tourism.countries.country name
GROUP BY tourism.countries.country name
ORDER BY tourism.countries.country name;
/*3. Рейтинг всех достопримечательностей по убыванию*/
SELECT tourism.tourist spots.spot name, avg(tourism.ratings.rating)
FROM tourism.tourist spots
INNER JOIN tourism.ratings ON tourism.ratings.place id = tourism.tourist spots.id
GROUP BY tourism.tourist spots.spot name
ORDER BY avg(tourism.ratings.rating) DESC;
```

```
SELECT tourism.countries.country_name

FROM tourism.countries

FULL JOIN tourism.tourist_spots ON countries.country_name = tourist_spots.country

GROUP BY country_name

HAVING count(tourist_spots.spot_name) = 0;

/*5. Cpedhuss odenka, noctablenkas nonbbobatenem no ybebahum, a echu het odenok, to bebectu 0*/

SELECT tourism.users.nickname, ROUND(coalesce(avg(tourism.ratings.rating), 0), 2) AS "average_rating"

FROM tourism.users

FULL JOIN tourism.ratings on users.nickname = ratings.user nickname
```

ROUND(AVG(localities.population) OVER (ORDER BY localities.population), 0) AS "average population"

SUM(localities.population) OVER (PARTITION BY localities.country ORDER BY localities.locality name) AS "total population"

GROUP BY nickname

FROM tourism.localities:

FROM tourism.localities:

ORDER BY avg(tourism.ratings.rating) DESC NULLS LAST;

SELECT tourism.localities.locality name, tourism.localities.country,

```
FROM tourism.tourist spots
GROUP BY locality
ORDER BY locality;
CREATE VIEW tourism.cathedrals view AS
      LEFT JOIN tourism.ratings
                 ON tourist spots.id = tourism.ratings.place id
ORDER BY COUNT (rating) DESC;
CREATE OR REPLACE FUNCTION tourism. decrease population (population limit integer)
RETURNS TABLE (locality name VARCHAR, population BIGINT) AS $$
 UPDATE tourism.localities
 FROM tourism.localities
```