Anton Slizh's
U2M1.LW.Core SQL

GitHub: https://github.com/drapejny/DataCamp2022

2.1. Task 01: CREATE Storage Objects

Creating all tables using prepared scripts:

2.2. Task 02: Generate Test Data in Storage Layers

```sql
1   SELECT COUNT(*) FROM sa_customers.sa_customer_data;
```

Query Result

SQL | All Rows Fetched: 1 in 0,115 seconds

	COUNT(*)
1	6400

```sql
1   SELECT COUNT(*) FROM sa_customers.sa_sale_data;
```

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0,061 seconds

	COUNT(*)
1	500000

```sql
1   SELECT * FROM sa_customers.sa_sale_data;
```

Script Output x Query Result x

SQL | Fetched 50 rows in 0,03 seconds

	DATE_ID	FIRST_NAME	LAST_NAME	PHONE	PRODUCT_NAME	PRODUCT_TYPE	PRODUCT_BRAND	SKU_NUM	STORE_ADDRESS	COUNTRY	PRICE	POS_TRANSACTION
1	25.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220125380101
2	03.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220103056001
3	11.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220111478901
4	01.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220101590301
5	11.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220111089401
6	26.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220126470601
7	17.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220117327601
8	09.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220109110001
9	21.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220121117801
10	03.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220103087701
11	30.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220130611401
12	15.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220115007201
13	26.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220126101901
14	20.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220120217801
15	11.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220111422301
16	19.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220119608301
17	28.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220128013701
18	15.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220115600701
19	26.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220126361301
20	14.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220114077601
21	07.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220107625001
22	08.01.22	Michael	Brown	+375297911668	Lidski Classic 2 liter	Classic	Lidski	89234312932	Minks, Kalinouskaga, 33	Belarus	3	20220108001801

2.3. Task 03: Create Group by Plan

Selecting most popular brands by counties:

```
 3   -- Selecting most popular brands by counties
 4 □ SELECT country, product_brand, COUNT(*) AS sales
 5   FROM sa_customers.sa_sale_data
 6   GROUP BY country, product_brand
 7   ORDER BY country, count(*) DESC;
```

Query Result ×

SQL | All Rows Fetched: 20 in 0,077 seconds

	COUNTRY	PRODUCT_BRAND	SALES
1	Belarus	Lidski	112762
2	Belarus	Hatni	93590
3	Belarus	Alivarski	56372
4	Belarus	Zaporozhski	56214
5	Belarus	Ruski	56032
6	Kazakhstan	Lidski	9464
7	Kazakhstan	Hatni	7659
8	Kazakhstan	Zaporozhski	4841
9	Kazakhstan	Alivarski	4700
10	Kazakhstan	Ruski	4554
11	Russian Federation	Lidski	18621
12	Russian Federation	Hatni	15578
13	Russian Federation	Ruski	9558
14	Russian Federation	Zaporozhski	9448
15	Russian Federation	Alivarski	9144
16	Ukraine	Lidski	9321
17	Ukraine	Hatni	7899

Selecting most popular stores:

```
 9   -- Selecting most popular stores
10 □ SELECT store_address, COUNT(*) AS sales
11   FROM sa_customers.sa_sale_data
12   GROUP BY store_address
13   ORDER BY count(*) DESC;
14
```

Query Result × Query Result 1 ×

SQL | All Rows Fetched: 16 in 0,112 seconds

	STORE_ADDRESS	SALES
1	Kyiv, Kalinouskaga, 11	31463
2	Grodno, Kalinouskaga, 7	31425
3	Gomel, Kalinouskaga, 6	31396
4	Minks, Kalinouskaga, 33	31375
5	Novogrudok, Kalinouskaga, 1	31366
6	Grodno, Savetskaya, 2	31315
7	Saint Petersburg, Kalinouskaga, 90	31301
8	Brest, Kalinouskaga, 47	31272
9	Astana, Kalinouskaga, 90	31218
10	Minks, Byady, 3	31213
11	Vitebsk, Kalinouskaga, 9	31151
12	Mogilev, Kalinouskaga, 17	31150
13	Slonim, Skaryny, 18	31147
14	Minks, Zaporozhskaya, 73	31120
15	Moscow, Kalinouskaga, 12	31048
16	Grodno, Kirova, 13	31040