

מיני פרויקט בבסיסי נתונים – תרגיל 4

ראשית, התחלנו ביצירת נתונים לטבלה הראשונה שלנו – profile.

לצורך זה התשמחנו באתר mockaroo.

The screenshot shows the Mockaroo website interface. At the top, there's a navigation bar with links: SCHEMAS, DATASETS, MOCK APIS, SCENARIOS, and PROJECTS. Below this, a dark grey box contains introductory text about Mockaroo's capabilities. The main area is a configuration table for a schema named 'profile'. The table has three columns: Field Name, Type, and Options. Fields include profile_id (Sequence), first_name (First Name), last_name (Last Name), email (Email Address), gender (Gender (abbrev)), and pass (Password). Each field has specific options like start at, step, repeat, and blank percentage. Below the table, there are controls for the number of rows (10000), format (SQL), table name (profile), and an option to include a CREATE TABLE statement. At the bottom, there are buttons for 'DOWNLOAD DATA', 'PREVIEW', 'SAVE THIS SCHEMA', and 'MORE'.

Field Name	Type	Options
profile_id	Sequence	start at: 9001 step: 1 repeat: 1 restart at: blank: 0 %
first_name	First Name	blank: 0 %
last_name	Last Name	blank: 0 %
email	Email Address	blank: 0 %
gender	Gender (abbrev)	blank: 0 %
pass	Password	blank: 0 %

Rows: 10000 Format: SQL Table Name: profile Include CREATE TABLE

Append Dataset: choose a dataset...

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DOWNLOAD DATA PREVIEW SAVE THIS SCHEMA MORE

יצרנו 10,000 רשומות בקובץ csv ועשינו לקובץ import:

	PROFILE_ID	FIRST_NAME	LAST_NAME	EMAIL	PASS	GENDER
1	6997	Terrence	Gilley	terrence.gilley@yumbrands.com	887880404	F
2	6998	Richard	Alston	richard.a@httprint.ca	229526463	O
3	6999	Leo	Sweeney	leo.sweeney@providenceservice.com	707536111	M
4	7000	Taye	Klugh	tklugh@directdata.uk	728477299	F
5	7001	Kenneth	Evanswood	kenneth.evanswood@appriss.com	828246673	F
6	7002	Lorraine	Callow	lorraine.callow@pinnaclestaffing.lt	985576344	M
7	7003	Bridgette	Fisher	bridgette.f@healthscribe.com	601869273	F
8	6881	Gin	Calle	gin.calle@ptg.com	206373139	O
9	6882	Chalee	Belle	chalee.belle@northhighland.br	735106242	M
10	6883	Hazel	Kotto	hazel.kotto@visionarysystems.ch	529107382	F
11	6884	First	Glover	first.g@refinery.com	468508279	O
12	6885	Jodie	Rhymes	jodie.r@lms.com	786589939	M
13	6886	Marie	Griggs	mgriggs@electricalsolutions.com	805261409	F
14	6887	Maggie	Sevigny	msevigny@ibfh.br	587230922	O
15	6888	Regina	Thorton	regina@ccb.com	491590791	O
16	6889	Wesley	Ledger	w.ledger@kingland.be	255143046	F
17	6890	Armand	Dukakis	armand@providentbancorp.com	189400825	M
18	6891	Kyle	Root	k.root@johnkeeler.com	824168823	M
19	6892	Chely	Dourif	chelyd@gestrel.com	217946050	M
20	6893	Mary	Spector	mary.spector@venoco.be	471738661	M
21	6894	Angela	Moody	angela@tama.com	937700658	M
22	6895	Harriet	Kelly	harriet.kelly@kitba.nl	889654542	F
23	6896	Rosie	Atlas	rosie.atlas@lemproducts.it	317430747	O
24	6897	Jimmy	Starr	jimmy.starr@integratedamerica.nl	432663749	F

לאחר מכן יצרנו את הטבלה post_type והוספנו לה שני סוגי פוסטים, רגיל וקבוצה.

	POST_TYPE_CODE	POST_TYPE_NAME
1	1	NORMAL
2	0	GROUP

ואז כתבנו סקריפט בפייתון כדי ליצור פקודות insert data ולמלא את הטבלה post.

```
for x in f:
    c += 1
    x = x.replace("date", "post_date")
    x = x.replace("content", "post_content")
    counter += 1
    count += 1
    if count % 1001 == 0:
        count = 1
    y = x
    profile_id = random.randint(1, 10000)
    arr[profile_id] += 1
    post_id = arr[profile_id]
    visibility = random.randint(0, 1)
    likes = random.randint(0, 2000)
    type = random.randint(0, 1)
    group = 'NULL'
    if type == 0:
        group = random.randint(1, 500)
    lst = y.split("values")
    prop = lst[1].split(',')
    post_id_new = prop[0].replace(str(counter), str(post_id))
    profile_id_new = prop[1].replace(str(count), str(profile_id))
    date_new = change_format_date(prop[2].split(" ")[1])
    visibility_new = prop[3].replace(str(count), str(visibility))
    likes_new = prop[4].replace(str(count), str(likes))
    type_new = prop[5].replace(str(count), str(type))
    group_new = prop[6].replace(str(count), str(group))
    y = "values".join([lst[0], ','.join([post_id_new, profile_id_new, date_new, visibility_new, likes_new, prop[5], type_new, group_new])])
    p.write(y)
```

יצרנו 10,000 פקודות insert data והרצנו בואלס.

	POST_ID	PROFILE_ID	POST_DATE	VISIBILITY_CODE	NUMBER_OF_LIKES	POST_CONTENT	POST_TYPE_CODE	GROUP_ID
1	1	2462	10/05/2020	0	563	vehicula condimentum	1	...
2	1	176	15/04/2020	1	1587	metus vitae ipsum aliquam	0	480
3	1	8102	01/12/2020	1	47	eu interdum eu tincidunt in	1	...
4	1	1649	26/01/2021	1	1026	in hac	1	...
5	1	6786	17/10/2020	1	911	habitasse platea	1	...
6	1	5891	09/03/2021	1	1068	etiam pretium iaculis justo in	0	129
7	1	9530	26/01/2021	1	543	sed lacus	0	298
8	1	5146	27/06/2020	0	1242	arcu libero rutrum ac lobortis	0	208
9	1	2729	01/09/2020	1	1870	mauris vulputate elementum nullam varius	0	400
10	1	2001	06/03/2021	0	826	ipsum aliquam non mauris morbi	1	414
11	1	3169	04/05/2020	1	1652	tempus sit amet	0	...
12	1	9926	29/04/2020	0	1237	mus etiam	1	...
13	1	734	21/05/2020	0	865	nulla nisl	0	427
14	1	9445	21/05/2020	1	1544	ultrices eu nibh quisque	1	...
15	1	7248	30/10/2020	0	1454	iacinia sapien quis libero nullam	1	...
16	1	9143	31/03/2021	0	1599	diam vitae	1	...
17	1	1819	29/03/2021	1	1792	proin leo odio porttitor id	1	...
18	1	9947	19/02/2021	1	1553	nisi et nibh in	0	401
19	1	6615	23/09/2020	0	744	magna bibendum imperdiet nullam orci	1	...
20	2	8253	26/12/2020	1	813	porta volutpat erat quisque	0	361
21	1	885	11/05/2020	0	1184	donec quis orci	1	...
22	1	9232	29/07/2020	1	913	sapien cum	0	455
23	1	3812	23/12/2020	0	1087	Faucibus orci luctus et ultrices	0	108
24	1	9480	09/07/2020	1	1800	dolor sit amet consectetur adipiscing	1	...

בסוף השתמשנו בData generator של sql כדי למלא את הטבלה
post_comment.

יצרנו איתו 10,000 רשומות עבור הטבלה.

	COMMENT_ID	POST_ID	PROFILE_ID	COMMENT_CONTENT
1	1	1	1125	Morbi porttitor lorem id ligula. Suspendisse ornare consequat lectus. In e...
2	1	1	8901	Mauris sit amet eros. Suspendisse accumsan tortor quis turpis. Sed ante. ...
3	1	1	7938	Vivamus metus arcu, adipiscing molestie, hendrerit at, vulputate vitae, ni...
4	1	2	2836	Aenean auctor gravida sem. Praesent id massa id nisl venenatis lacinia. A...
5	1	1	5473	Nulla ac enim. In tempor, turpis nec euismod scelerisque, quam turpis ac...
6	1	1	9705	Maecenas tristique, est et tempus semper, est quam pharetra magna, ac...
7	1	1	9207	In hac habitasse platea dictumst. Etiam faucibus cursus urna. Ut tellus. N...
8	1	1	5184	Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere i...
9	1	1	8969	Vivamus metus arcu, adipiscing molestie, hendrerit at, vulputate vitae, ni...
10	1	1	1167	Vivamus metus arcu, adipiscing molestie, hendrerit at, vulputate vitae, ni...
11	1	1	6488	Proin interdum mauris non ligula pellentesque ultrices. Phasellus id sapie...
12	1	1	5313	Nunc rhoncus dui vel sem. Sed sagittis. Nam congue, risus semper porta...
13	1	1	9146	Cum sociis natoque penatibus et magnis dis parturient montes, nascetur...
14	1	1	232	Donec ut dolor. Morbi vel lectus in quam fringilla rhoncus. Mauris enim...
15	1	1	8985	Nunc rhoncus dui vel sem. Sed sagittis. Nam congue, risus semper porta...
16	1	1	9001	Suspendisse potenti. Nullam porttitor lacus at turpis. Donec posuere met...
17	1	1	1402	Phasellus id sapien in sapien iaculis congue.
18	1	1	4649	Aenean lectus. Pellentesque eget nunc. Donec quis orci eget orci vehicul...
19	1	1	4245	Phasellus sit amet erat. Nulla tempus. Vivamus in felis eu sapien cursus v...
20	1	1	8210	Cum sociis natoque penatibus et magnis dis parturient montes, nascetur...
21	1	1	3378	Nulla ut erat id mauris vulputate elementum. Nullam varius. Nulla facilis...
22	1	1	5689	Proin eu mi. Nulla ac enim. In tempor, turpis nec euismod scelerisque, q...
23	1	1	9944	In blandit ultrices enim. Lorem ipsum dolor sit amet, consectetur adipis...
24	1	1	8679	In sagittis dui vel nisl. Duis ac nibh. Fusce lacus purus, aliquet at, feugiat...