

گزارشکار تمرین دوم آزمایشگاه پایگاه داده

استاد: آرش يوسفي

گروه ۱

#### تمرين تحقيقي:

برای import کردن فایلها از طریق psql، می توان از دستور زیر استفاده کرد:

\copy <TableName> from '<TableAddress>';

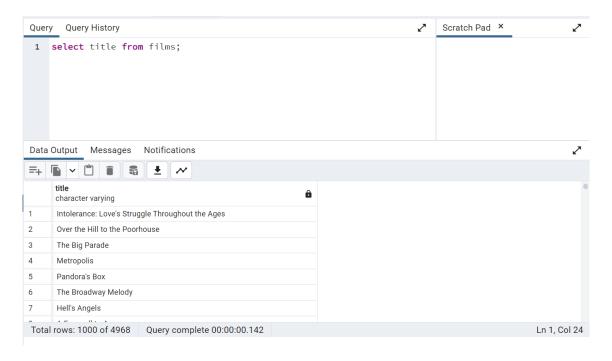
طبق تصویر زیر، با ساختن یک دیتابیس جدید به نام "hw2" و ساختن جدولها، با وارد کردن این دستور در psql، میبینیم که فایل نمونه "reviews.txt" با موفقیت تمامی سطرهای آن import شده است.

hw2=# \copy reviews from 'C:\Users\Parsa\Desktop\reviews.txt';
COPY 4968

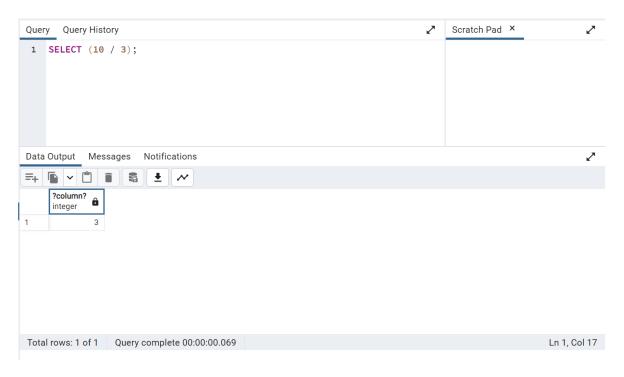
و با زدن query زير از import شدن فايل اطمينان حاصل مي كنيم:

hw2=# select * from reviews;								
id	film_id	num_user	num_critic	imdb_score	num_votes	facebook_likes		
1	+   3934	⊦   588	 432	7.1	   203461	+   46000		
2	3405	285	267	6.4	149998	l 40000		
3	3403     478	65	29	3.2	8465	491		
4	,	83	25	7.6	7071	930		
5	1254	1437	224	8	241030	13000		
6	740	111	64	6.4	64742	0		
7	4841	1058	579	8.1	479047	117000		
8	2869	59	104	6.8	18442	689		
9	3252	117	160	7.2	49855	10000		
10	1181	163	99	7.3	16995	9		
11	2020	402	145	6.7	91092	0		
12	4152	371	359	5.9	108242	39000		
13	3220	62	64	6.2	15780	2000		
14	2312	251	161	5.8	63912	912		
15	1820	113	41	7	8535	872		
16	718	85	43	6.4	76850	1000		
17	831	107	65	6.6	40126	975		
18	1231	226	113	6.5	26034	0		
19	1746	125	71	6.6	17261	455		
20	3508	43	10	5.3	8598	250		
21	1621	181	93	6	44913	3000		
22	3197	143	128	4.8	33088	0		

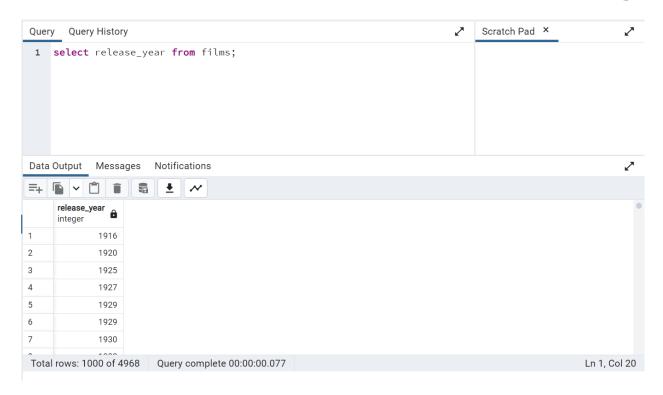
# تمرینهای SQL Query: سوال ۱)



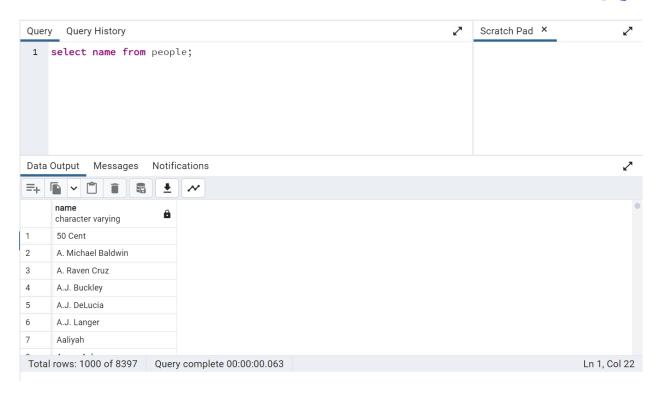
#### سوال ۲) حاصل گرد شدهی تقسیم عدد ۱۰ بر ۳ را خروجی میدهد.



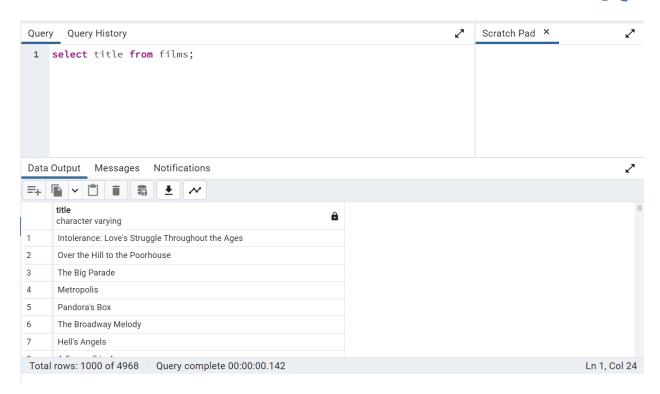
#### سوال ۳)



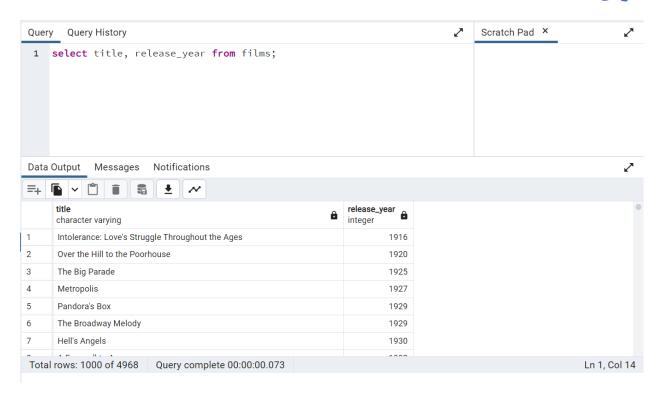
#### سوال ٤)



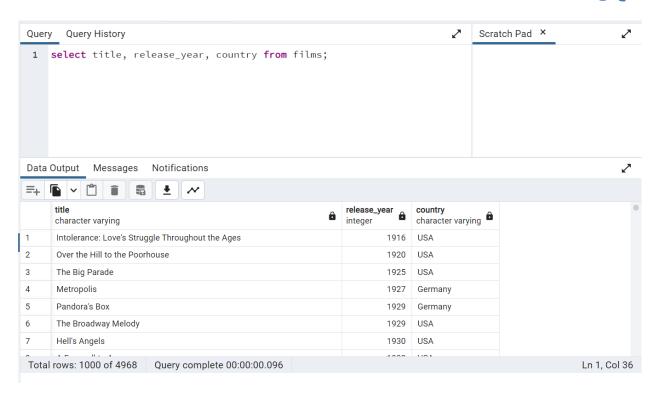
#### سوال ٥)



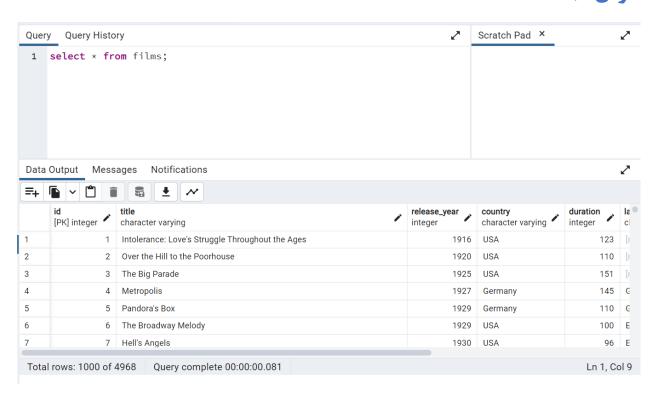
#### سوال ٦)



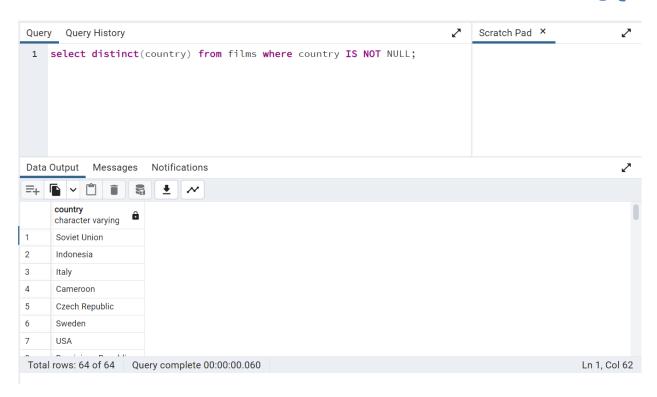
#### سوال ۲)



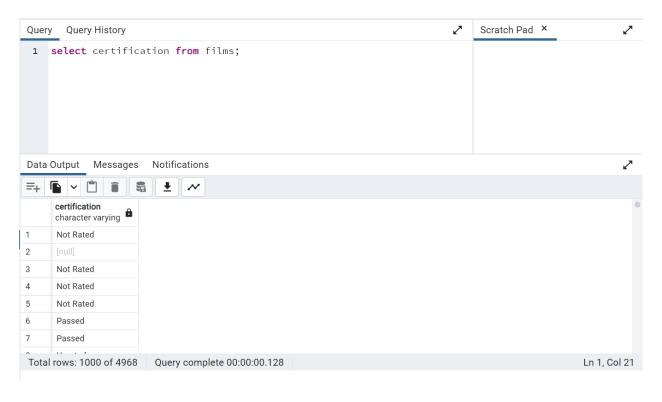
#### سوال ۸)



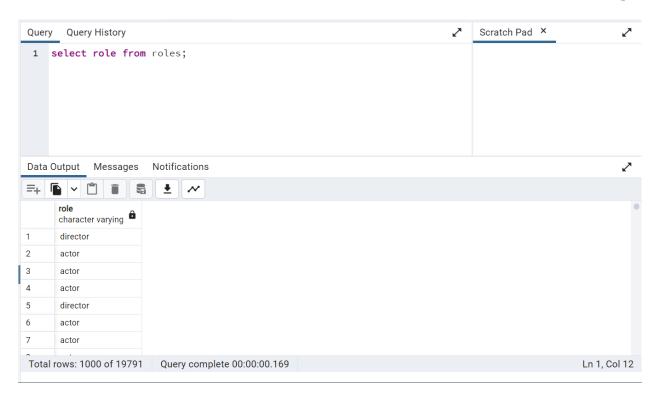
#### سوال ٩)



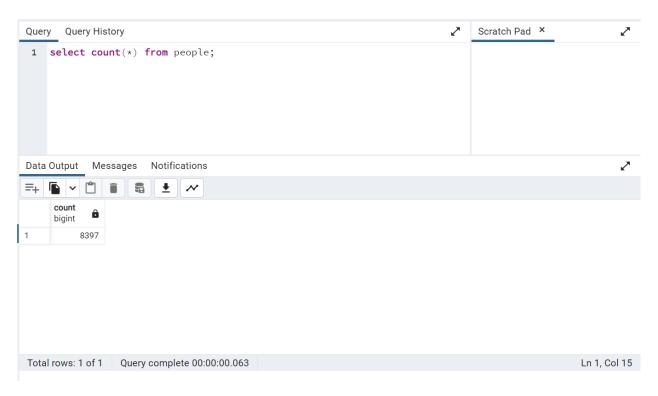
## سوال ۱۰)



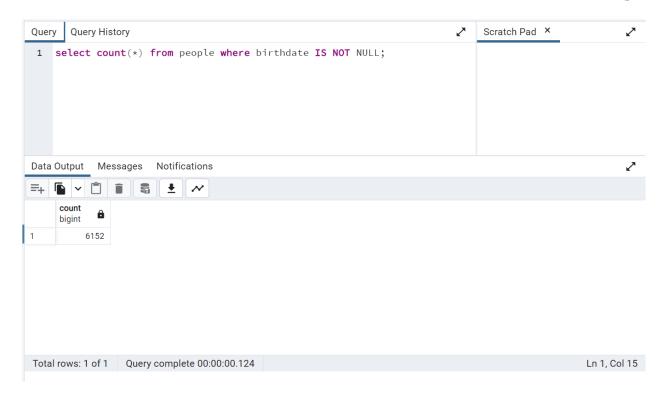
## سوال ۱۱)



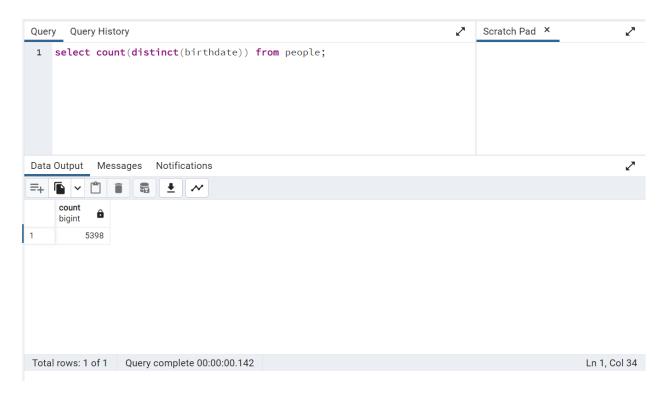
## سوال ۱۲)



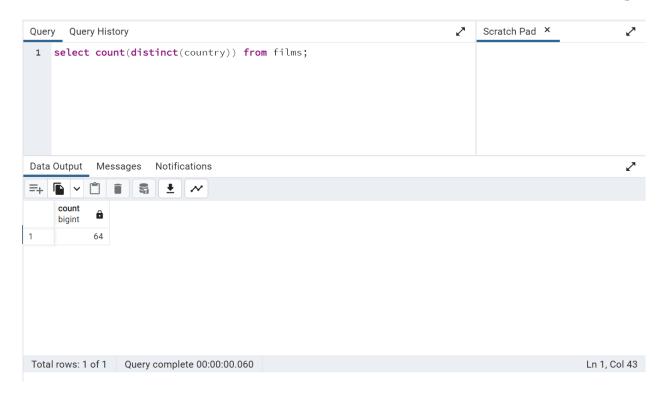
### سوال ۱۳)



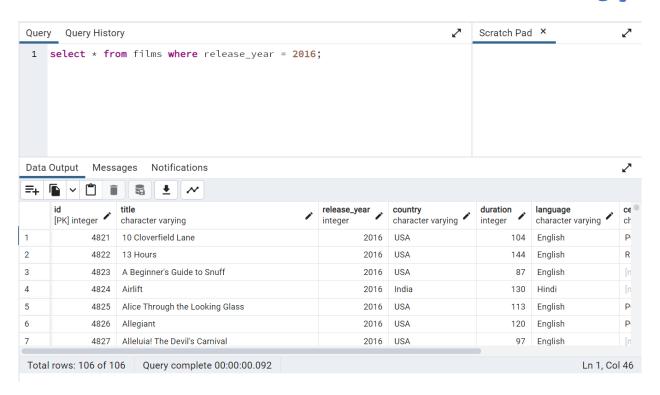
#### سوال ۱٤)



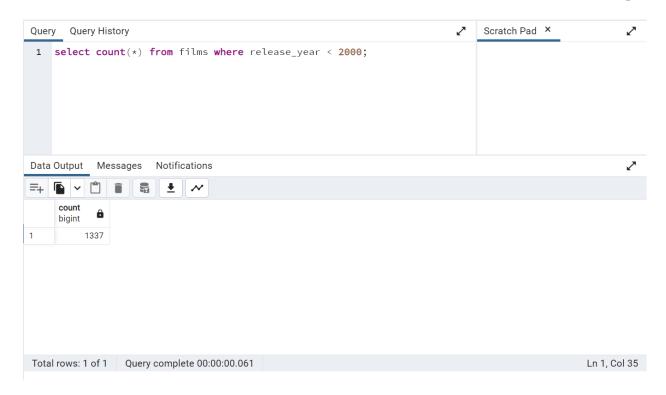
## سوال ۱۵)



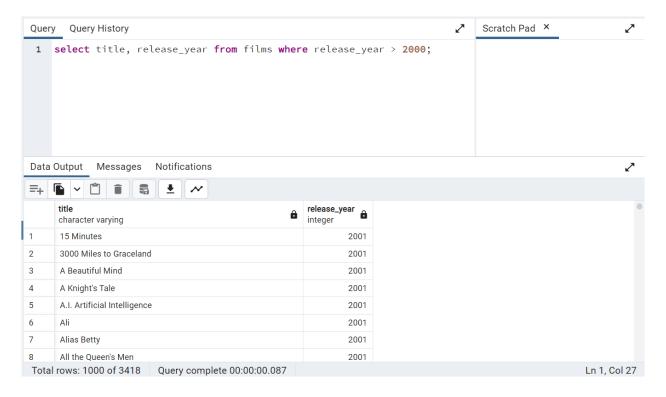
#### سوال ۱٦)



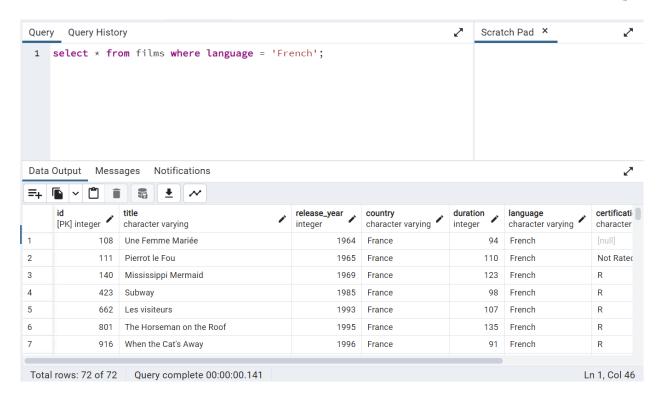
### سوال ۱۷)



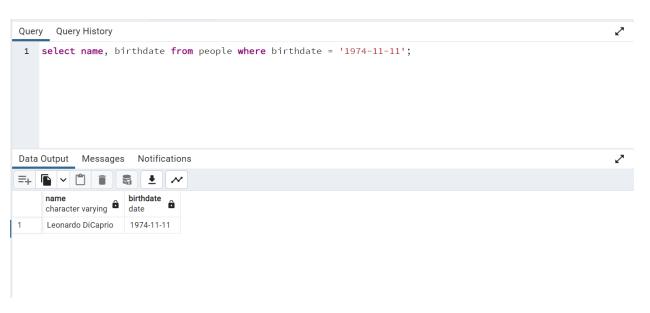
### سوال ۱۸)



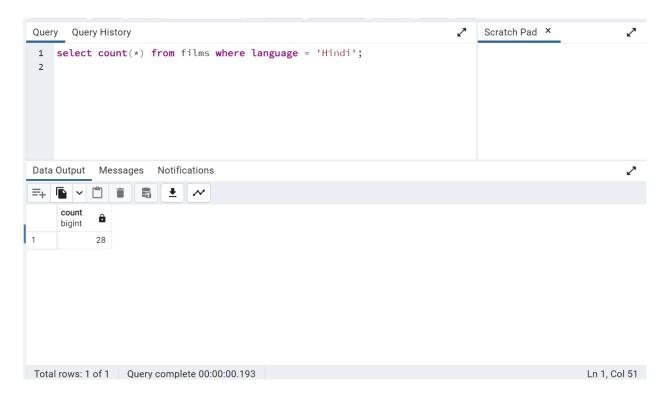
#### سوال ۱۹)



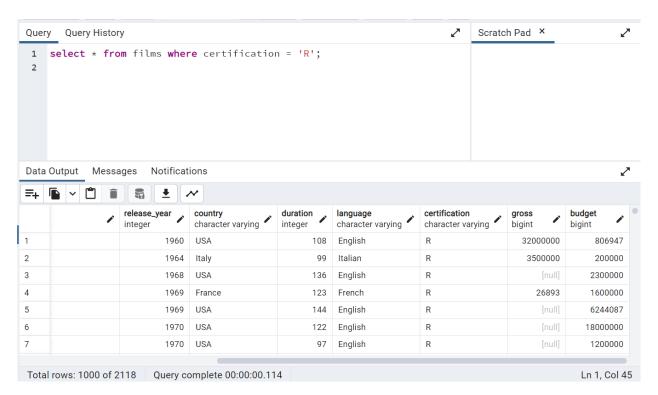
## سوال ۲۰)



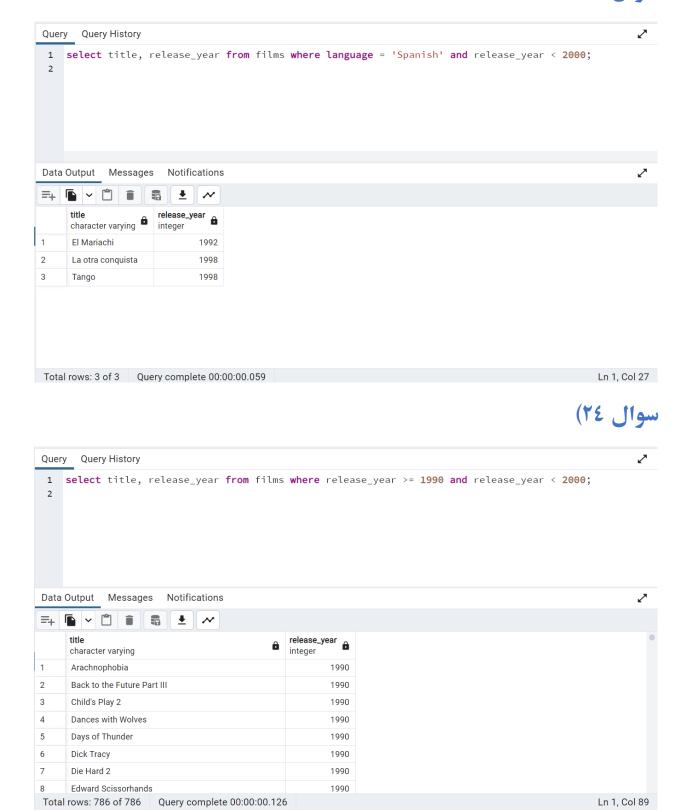
#### سوال ۲۱)



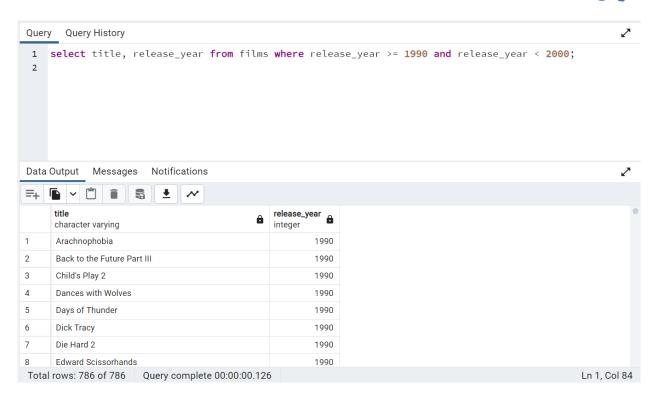
### سوال ۲۲)



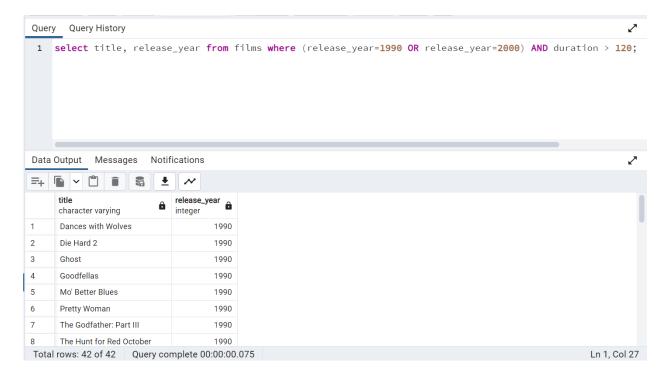
#### سوال ۲۳)



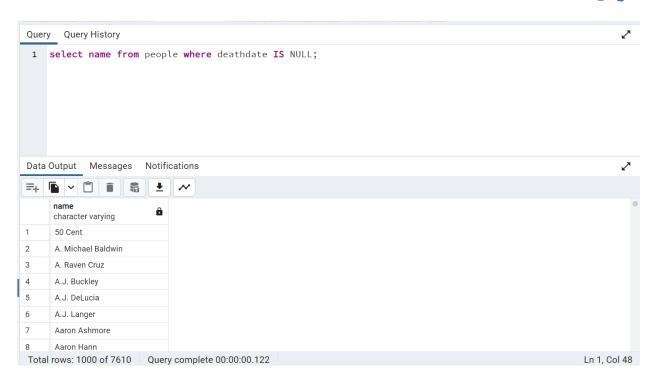
### سوال ۲۵)



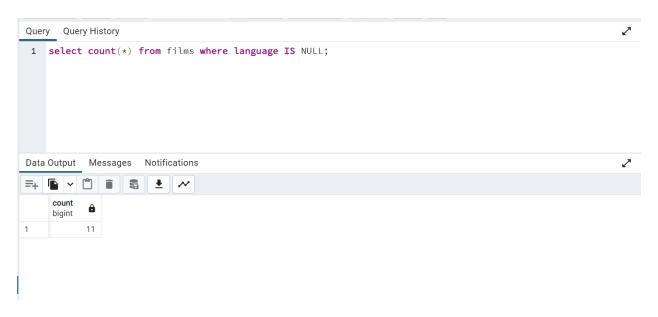
#### سوال ۲٦)



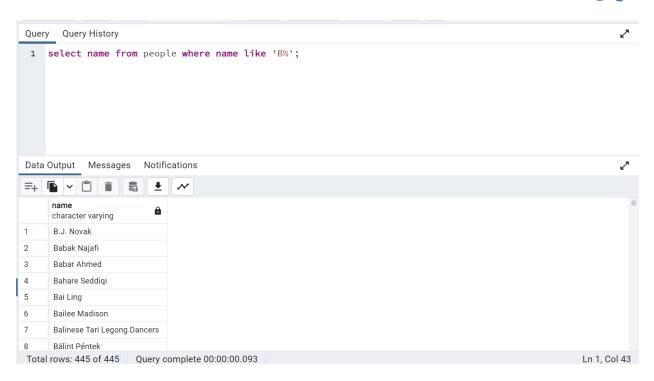
## سوال ۲۷)



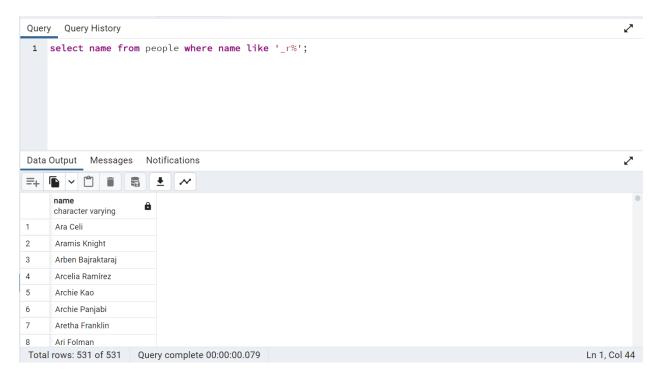
## سوال ۲۸)



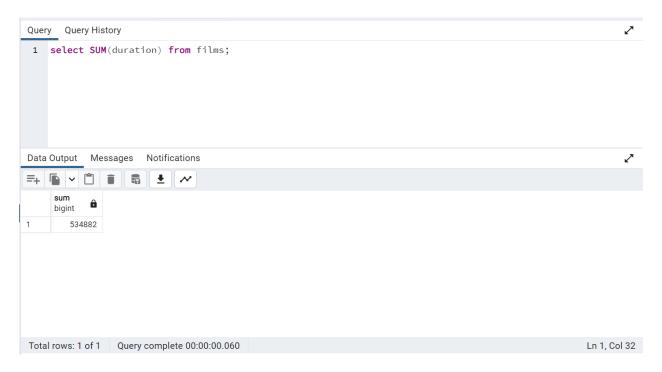
## سوال ۲۹)



#### سوال ۳۰)



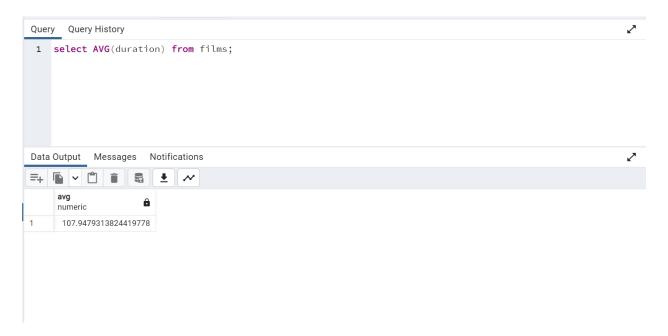
## سوال ۳۱)



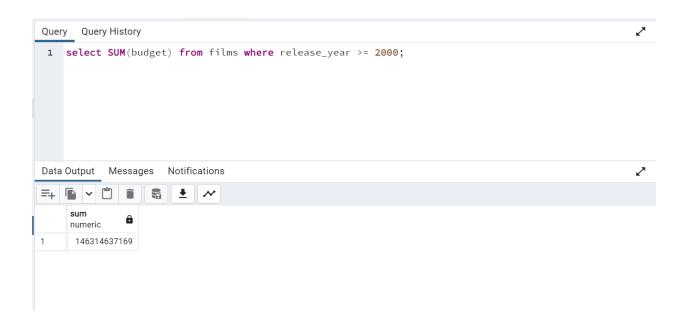
## سوال ۳۲)



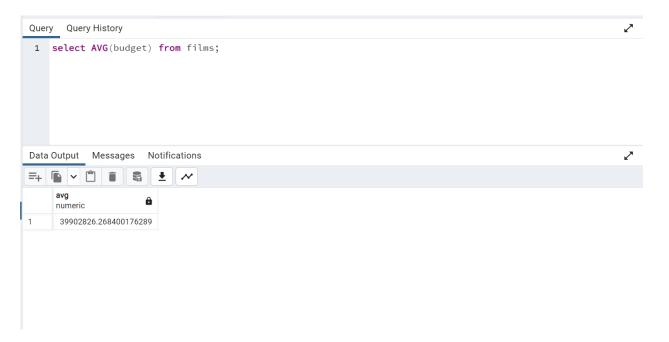
## سوال ۳۳)



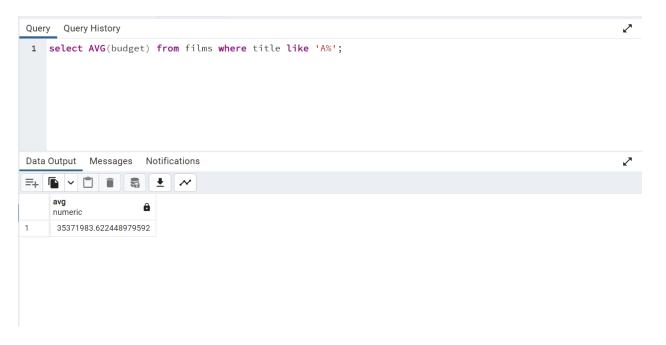
## سوال ۳٤)



# سوال ۳٥)



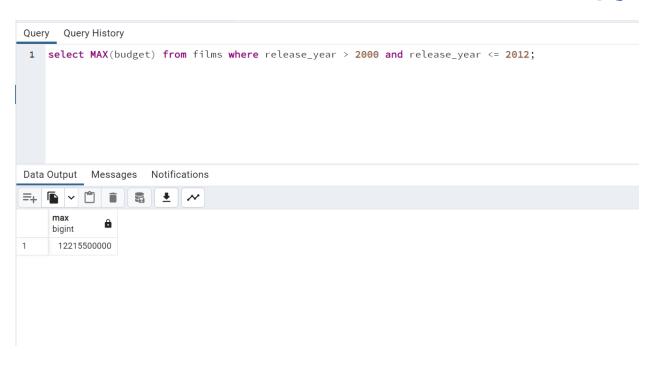
# سوال ۳٦)



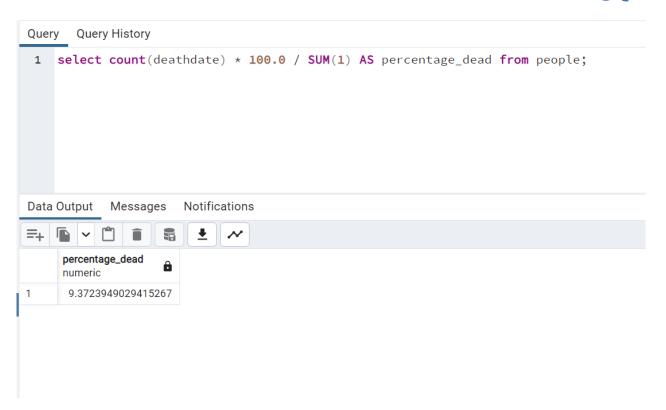
## سوال ۳۷)



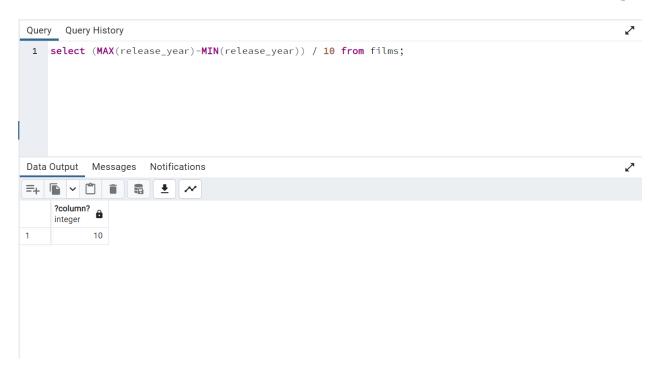
#### سوال ۳۸)



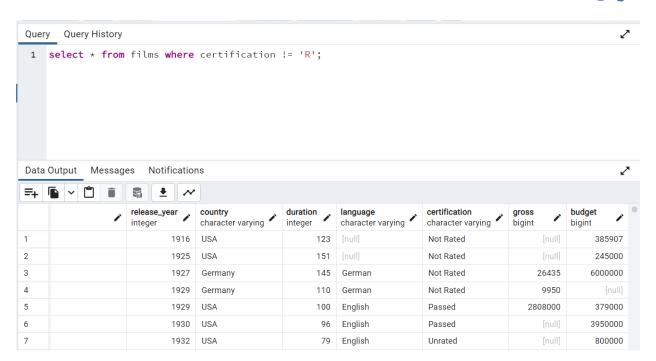
### سوال ۳۹)



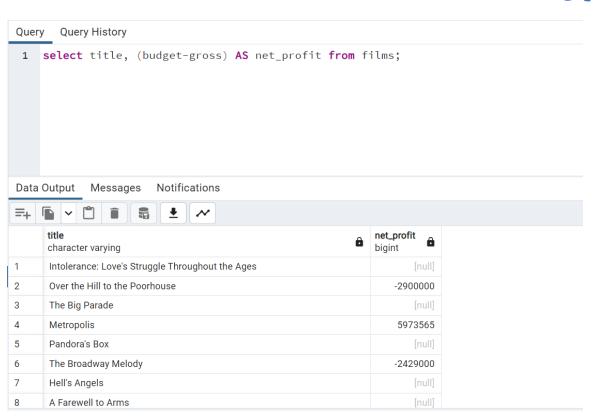
# سوال ٤٠)



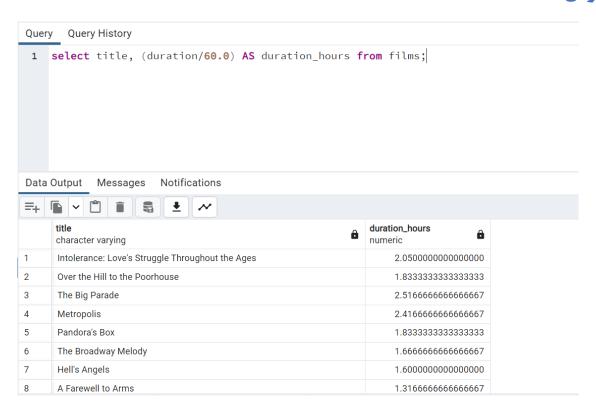
## سوال ٤١)



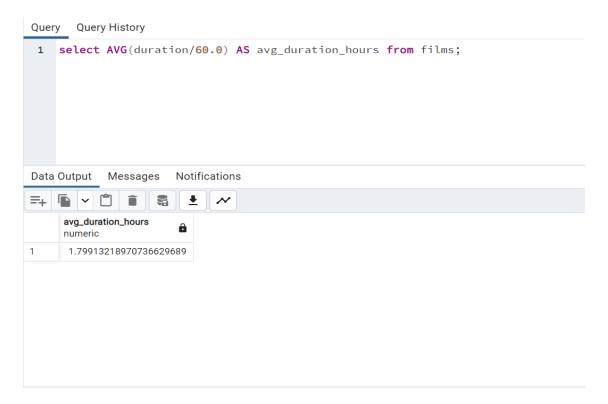
## سوال ٤٢)



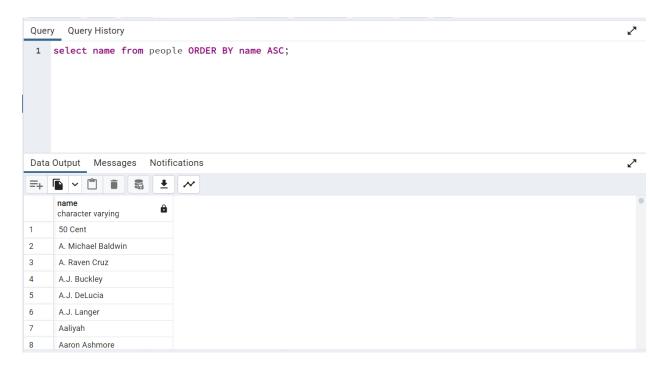
#### سوال ٤٣)



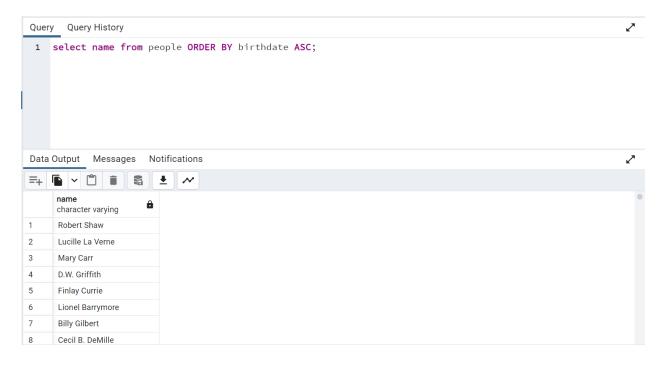
سوال ٤٤)



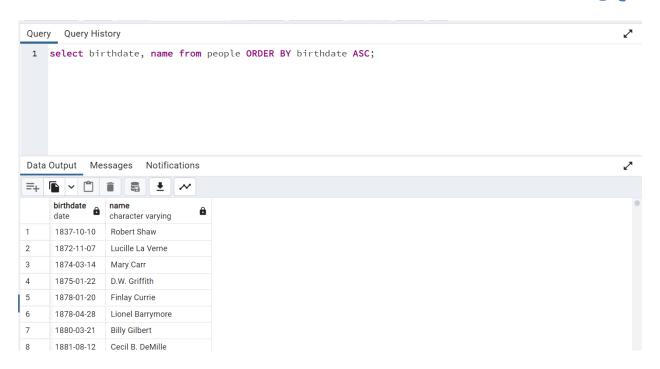
# سوال ٥٤)



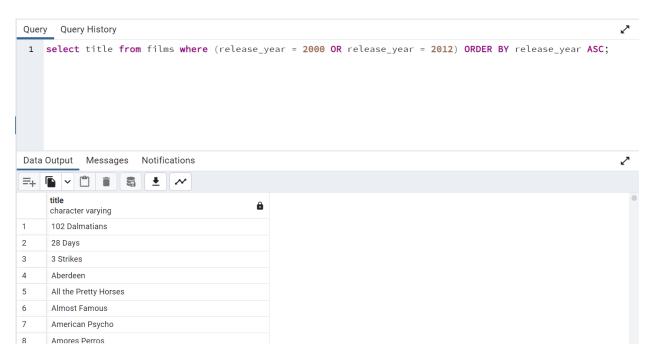
## سوال ۲٤)



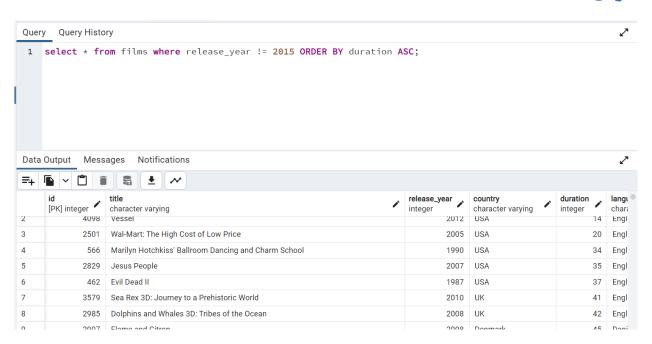
## سوال ٤٧)



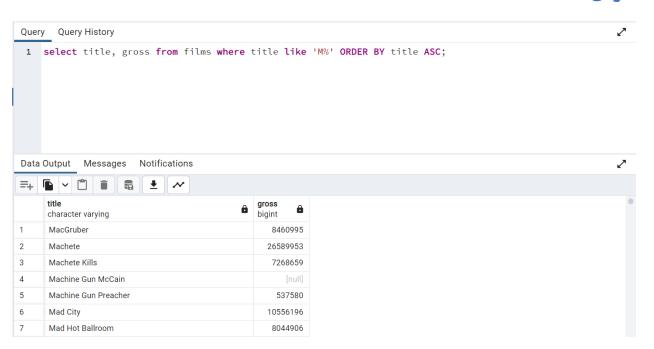
#### سوال ٤٨)



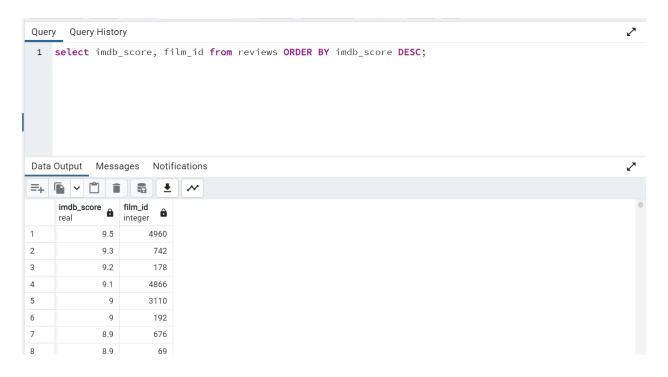
## سوال ٤٩)



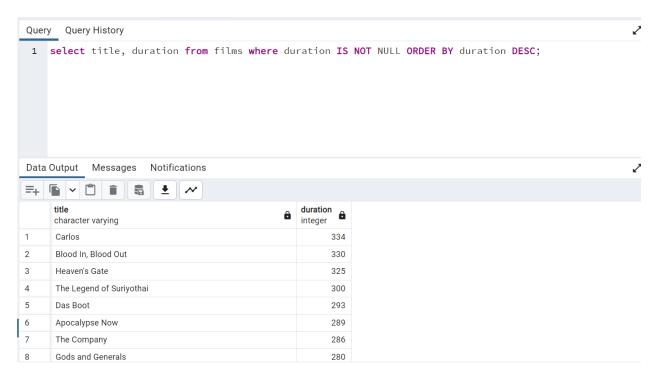
## سوال ٥٠)



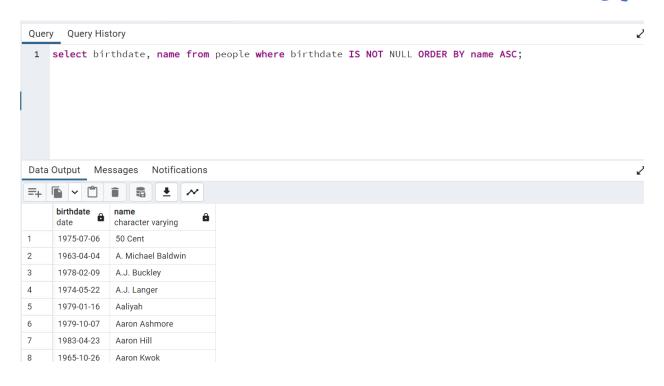
## سوال ٥١)



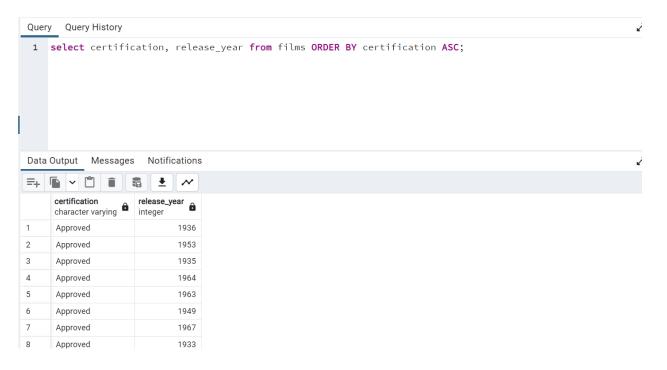
#### سوال ۵۲)



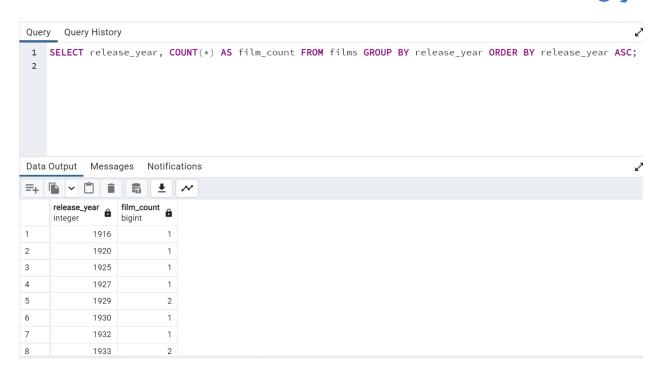
## سوال ۵۳)



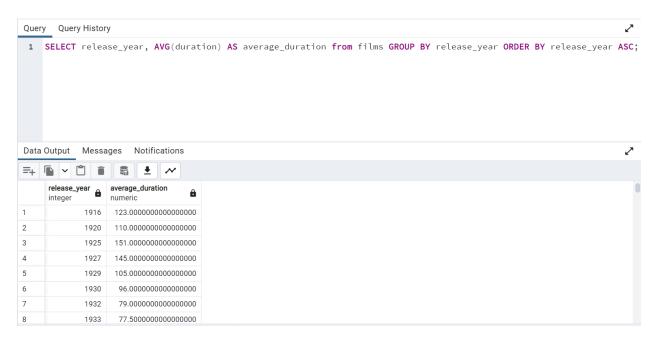
## سوال ٥٤)



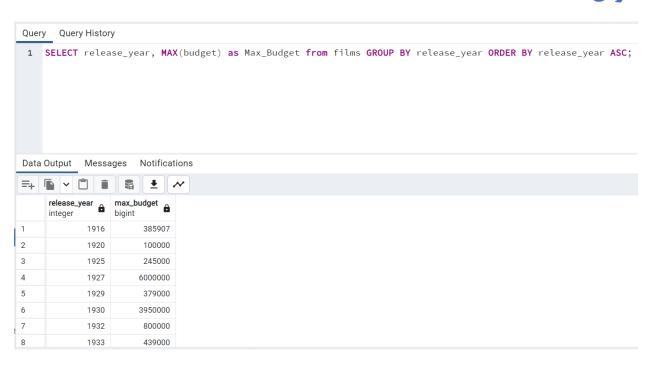
### سوال ٥٥)



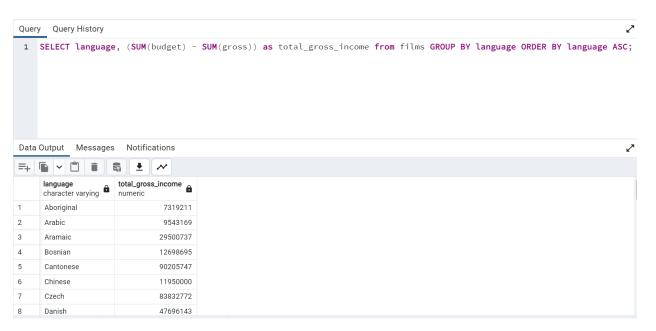
#### سوال ٥٦)



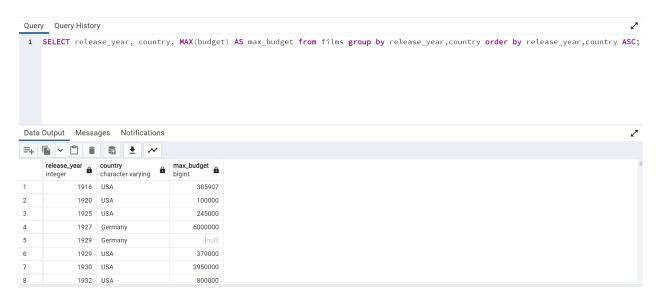
### سوال ٥٧)



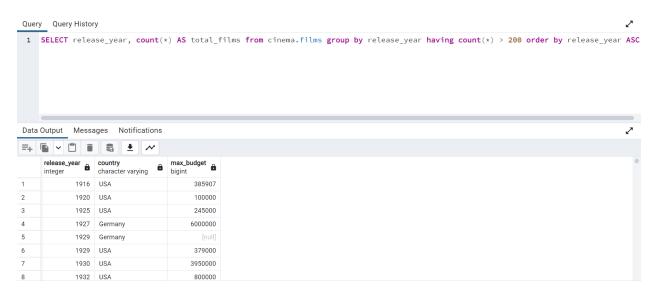
### سوال ۱۵)



#### سوال ٥٩)



#### سوال ۲۰)



#### سوال ۲۱)

#### Query Query History

- 1 select country, AVG(budget) as avg\_budget, AVG(gross) as avg\_gross, count(\*) from films
- group by country
  having count(\*)>10
- 4 order by country asc limit 5;

#### Data Output Messages Notifications

=+		<b>±</b>		
	country character varying	avg_budget numeric	avg_gross numeric	count bigint
1	Australia	31172110.460000000000	40205909.571428571429	55
2	Canada	14798458.715596330275	22432066.68055555556	123
3	China	62219000.0000000000000	14143040.736842105263	30
4	Denmark	13922222.2222222222	1418469.111111111111	11
5	France	30672034.615384615385	16350593.578512396694	153