

Jawablah pertanyaan-pertanyaan berikut dengan SQL.

1. Tampilkan data customer yg mempunyai opening amount diatas 7000.

```
def tampilkan(command):
    results = result.execute(command).fetchall()
    cols = [column[0] for column in result.description]
    results_data= pd.DataFrame.from_records(results, columns = cols)
    return results_data
```

tampilkan('select \* from customer where OPENING\_AMT > "7000"')

	CUST_CODE	CUST_NAME	CUST_CITY	WORKING_AREA	CUST_COUNTRY	GRADE	OPENING_AMT	RECEIVE_AMT	PAYMENT_AMT	OUTSTANDING_AMT	PHONE_NO	AGENT_CODE
0	C00003	Martin	Torento	Torento	Canada	2	8000.00	7000.00	7000.00	8000.00	MJYURFD	A004
1	C00005	Sasikant	Mumbai	Mumbai	India	1	7000.00	11000.00	7000.00	11000.00	147-25896312	A002
2	C00007	Ramanathan	Chennai	Chennai	India	1	7000.00	11000.00	9000.00	9000.00	GHRDWSD	A010
3	C00008	Karolina	Torento	Torento	Canada	1	7000.00	7000.00	9000.00	5000.00	HJKORED	A004
4	C00009	Ramesh	Mumbai	Mumbai	India	3	8000.00	7000.00	3000.00	12000.00	Phone No	A002
5	C00011	Sundariya	Chennai	Chennai	India	3	7000.00	11000.00	7000.00	11000.00	PPHGRTS	A010
6	C00014	Rangarappa	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	AAAATGF	A001
7	C00016	Venkatpati	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	JRTVFDD	A007
8	C00017	Srinivas	Bangalore	Bangalore	India	2	8000.00	4000.00	3000.00	9000.00	AAAAAAB	A007
9	C00018	Fleming	Brisban	Brisban	Australia	2	7000.00	7000.00	9000.00	5000.00	NHBGVFC	A005
10	C00019	Yearannaidu	Chennai	Chennai	India	1	8000.00	7000.00	7000.00	8000.00	ZZZZBFV	A010
11	C00021	Jacks	Brisban	Brisban	Australia	1	7000.00	7000.00	7000.00	7000.00	WERTGDF	A005
12	C00022	Avinash	Mumbai	Mumbai	India	2	7000.00	11000.00	9000.00	9000.00	113-12345678	A002

2. Tampilkan informasi order yg dilakukan melalui agensi dengan code A003.

tampilkan('select ord\_description from orders where agent\_code = "A003"')

	ORD_DESCRIPTION
0	SOD
1	SOD

3. Tampilkan data customer yg tinggal di New York, Bangalore, Mumbai, dan Torento.

tampilkan('select \* from customer where cust\_city in ("New York", "Bangalore", "Mumbai", "Torento")')

	CUST_CODE	CUST_NAME	CUST_CITY	WORKING_AREA	CUST_COUNTRY	GRADE	OPENING_AMT	RECEIVE_AMT	PAYMENT_AMT	OUTSTANDING_AMT	PHONE_NO	AGENT_CODE
0	C00002	Bolt	New York	New York	USA	3	5000.00	7000.00	9000.00	3000.00	DDNRDRH	A008
1	C00003	Martin	Torento	Torento	Canada	2	8000.00	7000.00	7000.00	8000.00	MJYURFD	A004
2	C00005	Sasikant	Mumbai	Mumbai	India	1	7000.00	11000.00	7000.00	11000.00	147-25896312	A002
3	C00006	Shilton	Torento	Torento	Canada	1	10000.00	7000.00	6000.00	11000.00	DDDDDDD	A004
4	C00008	Karolina	Torento	Torento	Canada	1	7000.00	7000.00	9000.00	5000.00	HJKORED	A004
5	C00009	Ramesh	Mumbai	Mumbai	India	3	8000.00	7000.00	3000.00	12000.00	Phone No	A002
6	C00014	Rangarappa	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	AAAATGF	A001
7	C00016	Venkatpati	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	JRTVFDD	A007
8	C00017	Srinivas	Bangalore	Bangalore	India	2	8000.00	4000.00	3000.00	9000.00	AAAAAAB	A007
9	C00020	Albert	New York	New York	USA	3	5000.00	7000.00	6000.00	6000.00	BBBBBBB	A008
10	C00022	Avinash	Mumbai	Mumbai	India	2	7000.00	11000.00	9000.00	9000.00	113-12345678	A002
11	C00025	Ravindran	Bangalore	Bangalore	India	2	5000.00	7000.00	4000.00	8000.00	AVAVAVA	A011

4. Tampilkan informasi customer yang mempunyai payment amount diatas 7000 dan urutkan berdasarkan opening amountnya dari yg terbesar

tampilkan('select \* from customer where payment\_amt > "7000" order by opening\_amt desc')

	CUST_CODE	CUST_NAME	CUST_CITY	WORKING_AREA	CUST_COUNTRY	GRADE	OPENING_AMT	RECEIVE_AMT	PAYMENT_AMT	OUTSTANDING_AMT	PHONE_NO	AGENT_CODE
0	C00003	Martin	Torento	Torento	Canada	2	8000.00	7000.00	7000.00	8000.00	MJYURFD	A004
1	C00014	Rangarappa	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	AAAATGF	A001
2	C00016	Venkatpati	Bangalore	Bangalore	India	2	8000.00	11000.00	7000.00	12000.00	JRTVFDD	A007
3	C00019	Yearannaidu	Chennai	Chennai	India	1	8000.00	7000.00	7000.00	8000.00	ZZZZBFV	A010
4	C00005	Sasikant	Mumbai	Mumbai	India	1	7000.00	11000.00	7000.00	11000.00	147-25896312	A002
5	C00007	Ramanathan	Chennai	Chennai	India	1	7000.00	11000.00	9000.00	9000.00	GHRDWSD	A010
6	C00008	Karolina	Torento	Torento	Canada	1	7000.00	7000.00	9000.00	5000.00	HJKORED	A004
7	C00011	Sundariya	Chennai	Chennai	India	3	7000.00	11000.00	7000.00	11000.00	PPHGRTS	A010
8	C00018	Fleming	Brisban	Brisban	Australia	2	7000.00	7000.00	9000.00	5000.00	NHBGVFC	A005
9	C00021	Jacks	Brisban	Brisban	Australia	1	7000.00	7000.00	7000.00	7000.00	WERTGDF	A005
10	C00022	Avinash	Mumbai	Mumbai	India	2	7000.00	11000.00	9000.00	9000.00	113-12345678	A002
11	C00013	Holmes	London	London	UK	2	6000.00	5000.00	7000.00	4000.00	BBBBBBB	A003
12	C00002	Bolt	New York	New York	USA	3	5000.00	7000.00	9000.00	3000.00	DDNRDRH	A008
13	C00004	Winston	Brisban	Brisban	Australia	1	5000.00	8000.00	7000.00	6000.00	AAAAAAA	A005
14	C00012	Steven	San Jose	San Jose	USA	1	5000.00	7000.00	9000.00	3000.00	KRFYGJK	A012
15	C00023	Karl	London	London	UK	0	4000.00	6000.00	7000.00	3000.00	AAAABAA	A006
16	C00024	Cook	London	London	UK	2	4000.00	9000.00	7000.00	6000.00	FSDDSDf	A006

5. Tampilkan data agensi yang tidak bekerja di london dan memiliki comission lebih dari 0.12

[77] tampilkan('select \* from agents where working\_area not in ("London") and commission > "0.12"')

	AGENT_CODE	AGENT_NAME	WORKING_AREA	COMMISSION	PHONE_NO	COUNTRY
0	A001	Subbarao	Bangalore	0.14	077-12346674	
1	A004	Ivan	Torento	0.15	008-22544166	
2	A005	Anderson	Brisban	0.13	045-21447739	
3	A007	Ramasundar	Bangalore	0.15	077-25814763	
4	A010	Santakumar	Chennai	0.14	007-22388644	
5	A011	Ravi Kumar	Bangalore	0.15	077-45625874	
6	A013	Achmad Malik	Indonesia	0.27	021-14045	
7	A013	Achmad Malik	Indonesia	0.27	021-14045	
8	A013	Achmad Malik	Indonesia	0.27	021-14045	

6. Tampilkan data customer yang tinggal di USA dengan grade 1 dan receive amount di atas 7000 serta urutkan berdasarkan receive amount dari yang terbesar.

[89] tampilkan('select \* from customer where cust\_country in ("USA") and grade = "1" and receive\_amt > "7000" order by receive\_amt desc')

	CUST_CODE	CUST_NAME	CUST_CITY	WORKING_AREA	CUST_COUNTRY	GRADE	OPENING_AMT	RECEIVE_AMT	PAYMENT_AMT	OUTSTANDING_AMT	PHONE_NO	AGENT_CODE
0	C00012	Sleven	San Jose	San Jose	USA	1	5000.00	7000.00	9000.00	3000.00	KRFYGJK	A012