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Group ID:17

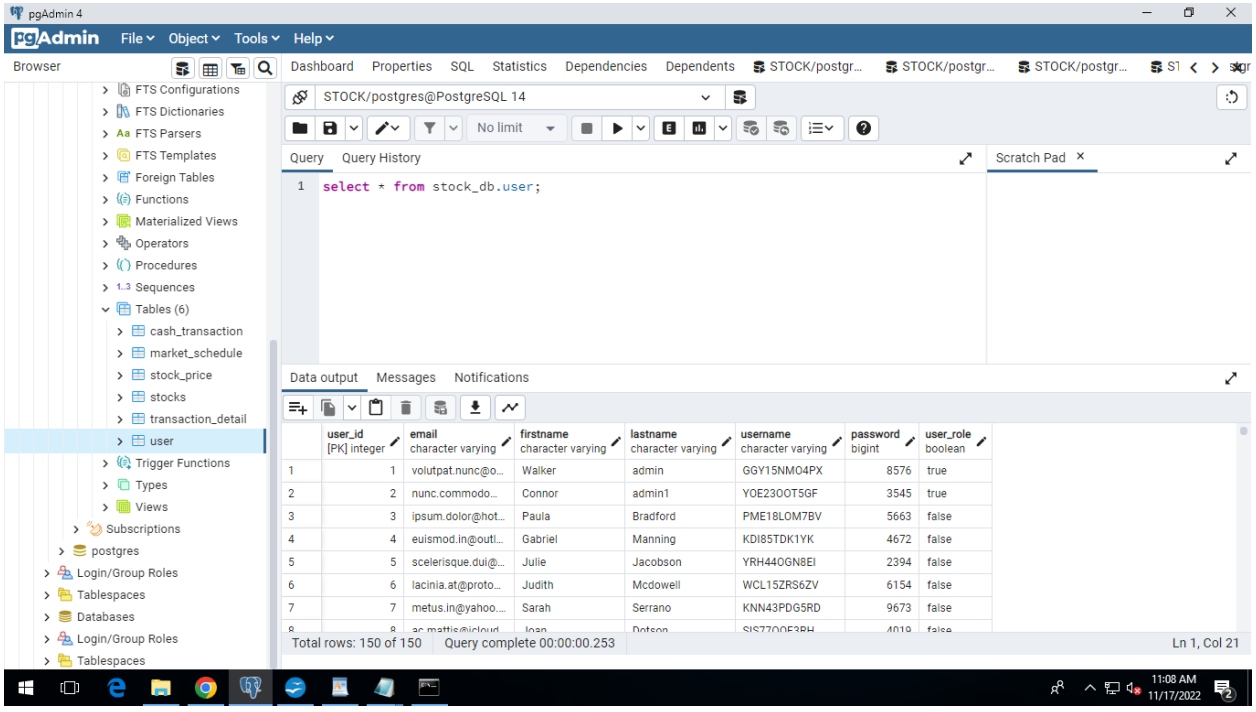
Course: MSc(IT)

Subject: Database Management System

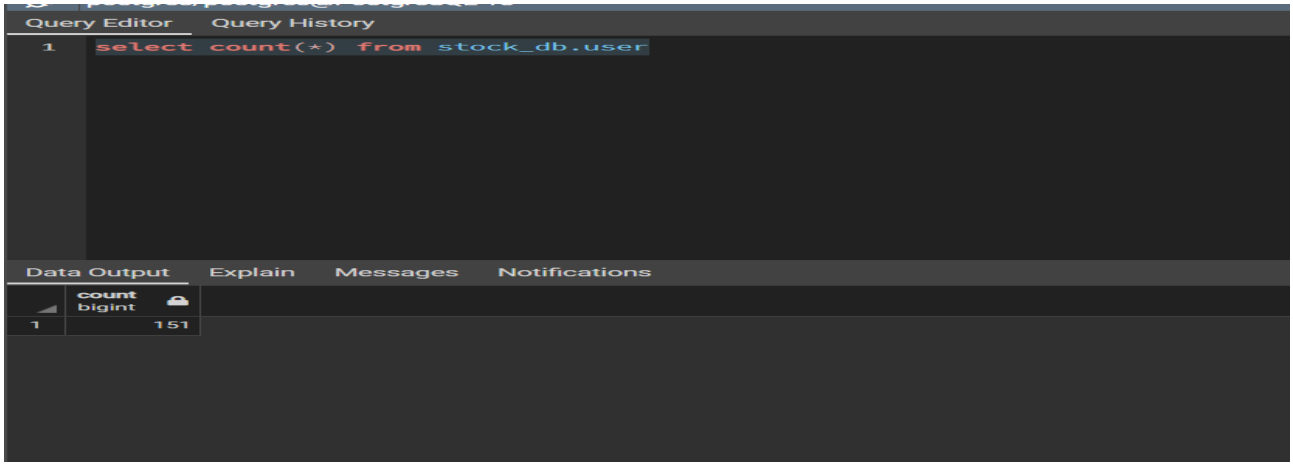
1.Show all user details.

ans>

```
select * from stockdb.user;
```

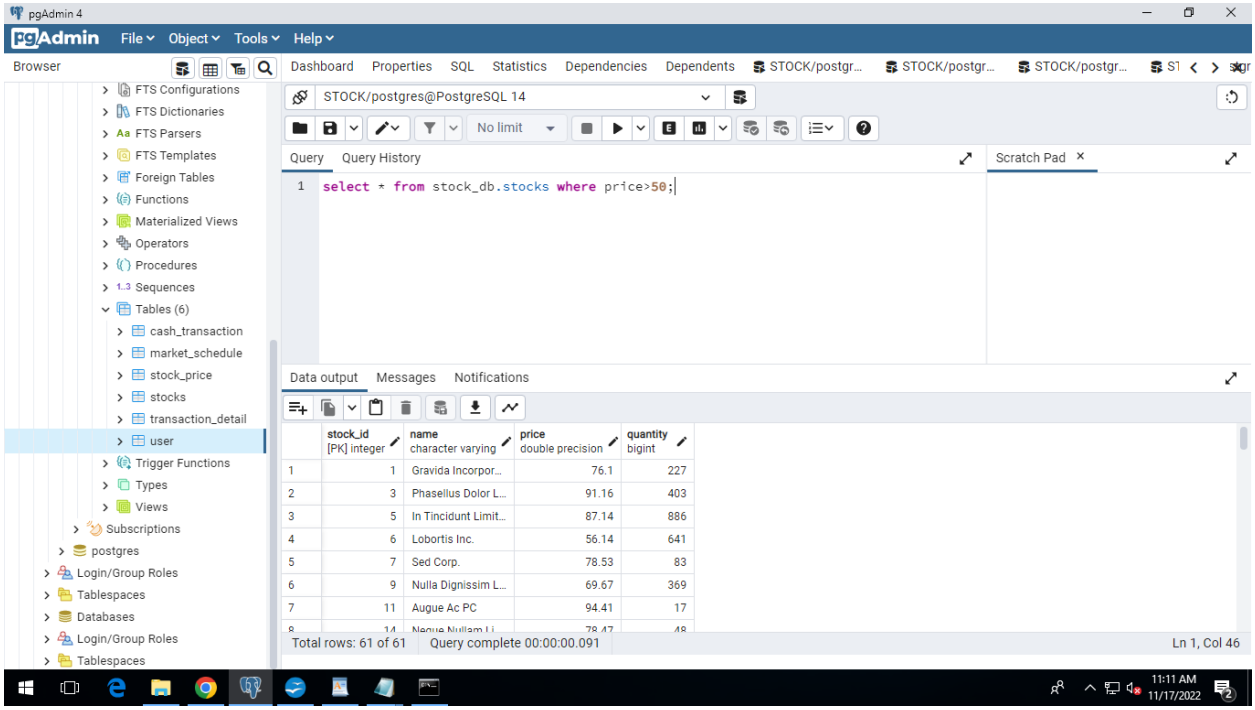



```
select count(*) from stock_db.user
```

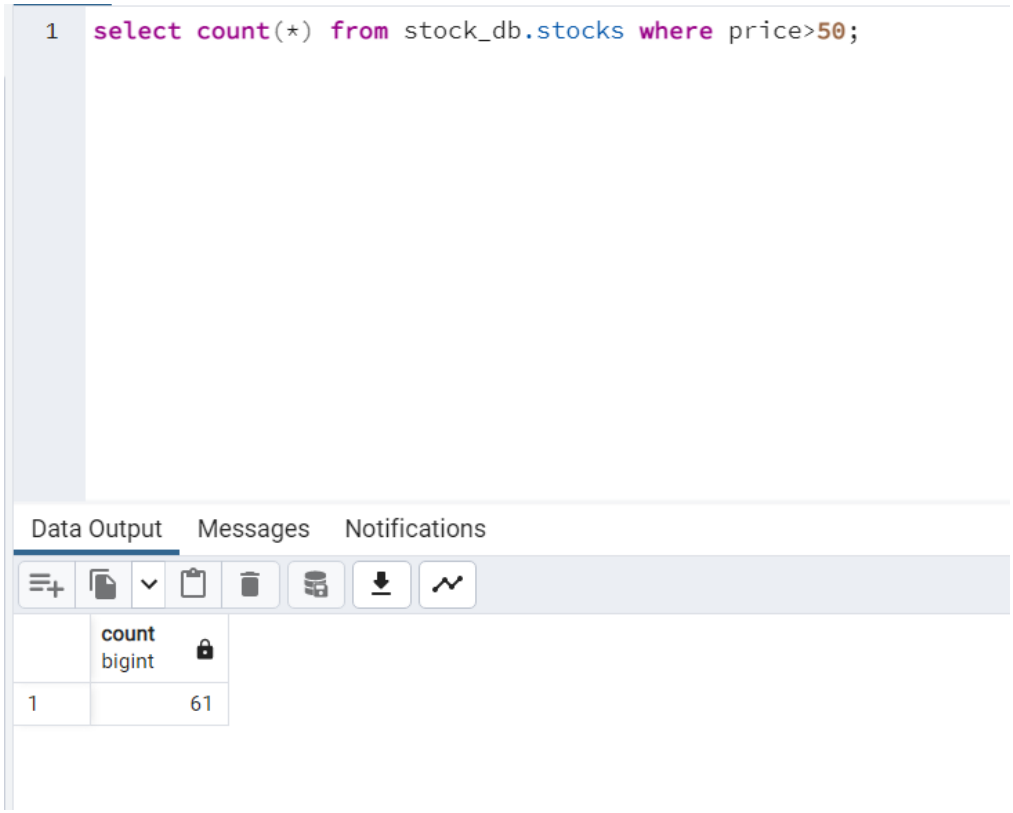


2. **List the names of stocks where the stock price is greater than 50$.**

select * from stock_db.stocks where price>50;

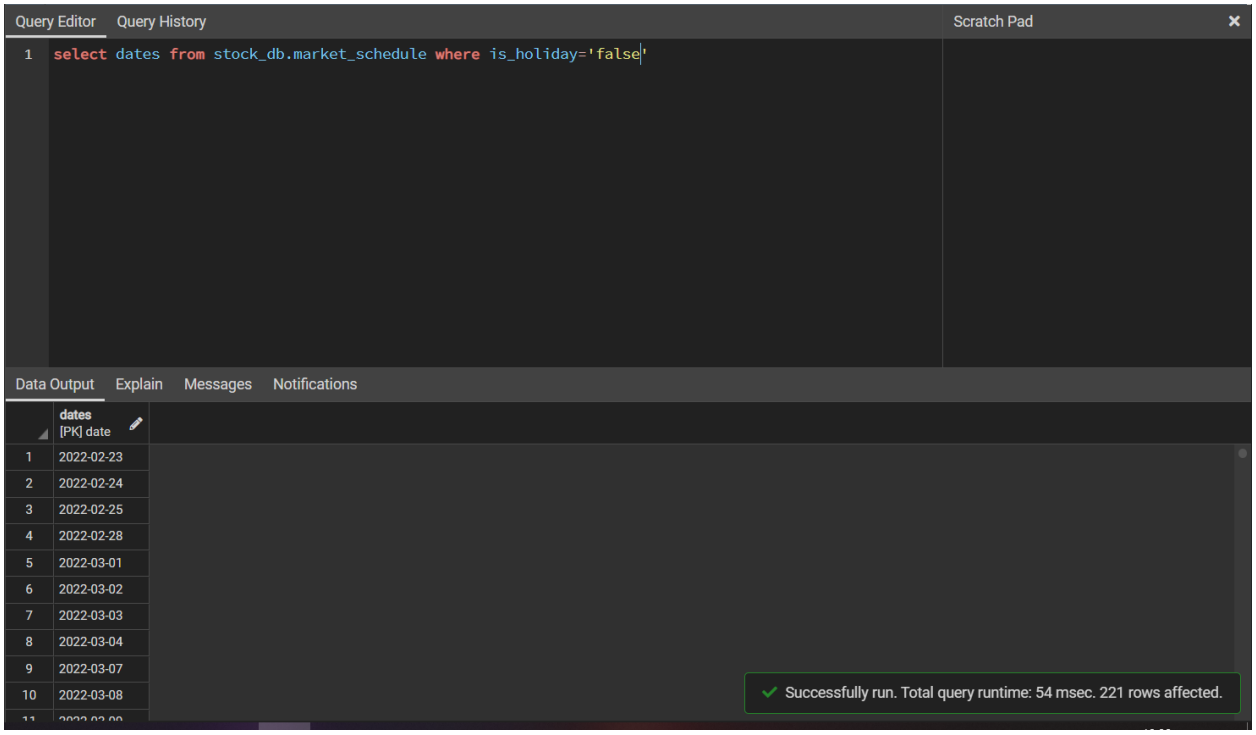


select count(*) from stock_db.stocks where price>50;

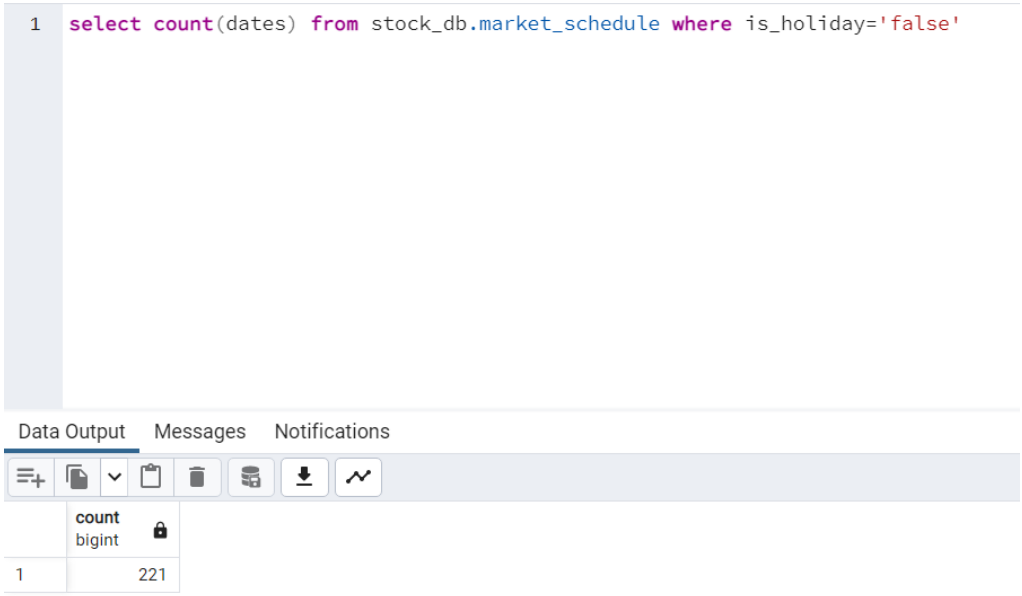


3. **Show all the dates where there is no holiday.**

   select dates from stock_db.market_schedule where is_holiday='false'

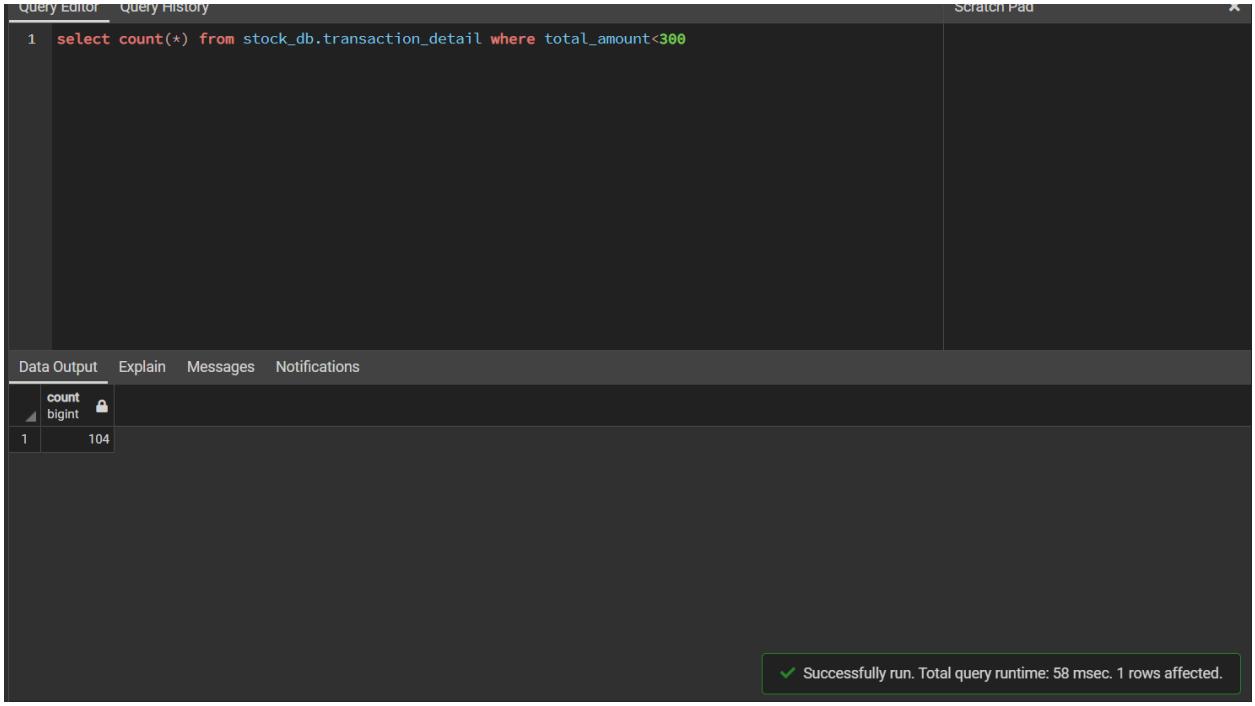


select count(dates) from stock_db.market_schedule where is_holiday='false'



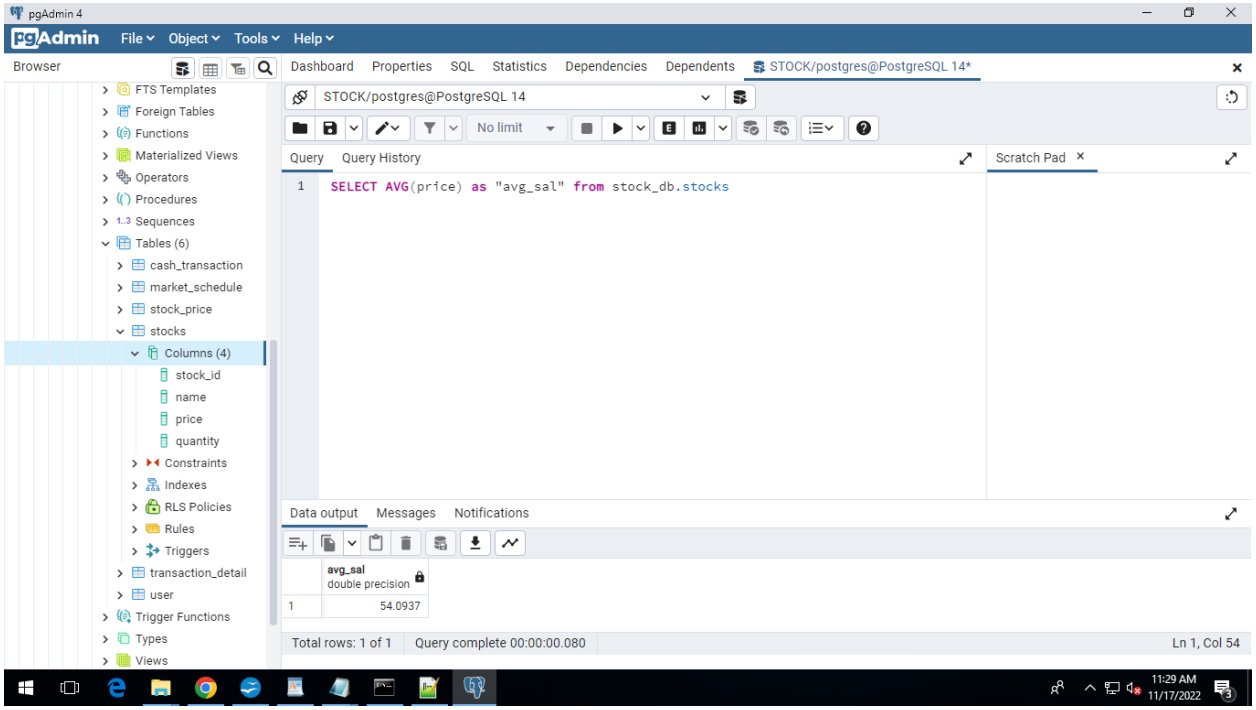
4. **Count the number of transactions where the amount is less than 300.**

   select count(*) from stock_db.transaction_detail where total_amount<300

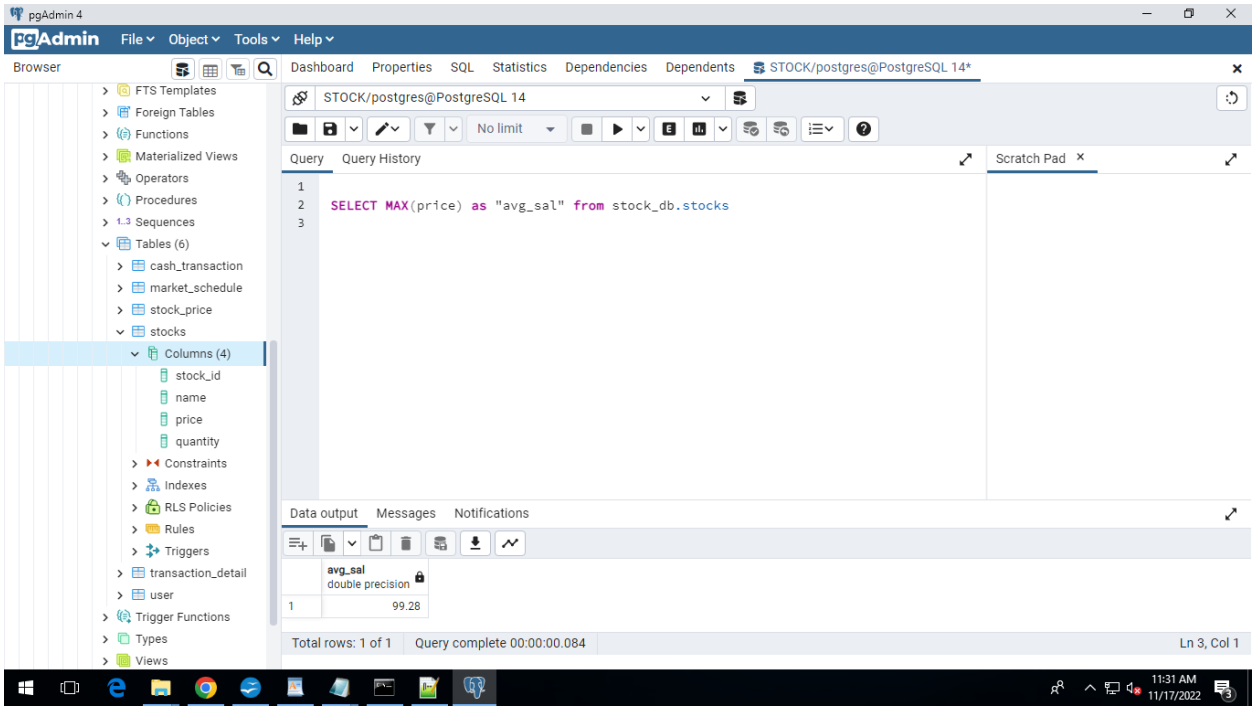


5. **Find out average stock price.**

   SELECT AVG(price) as "avg_sal" from stock_db.stocks

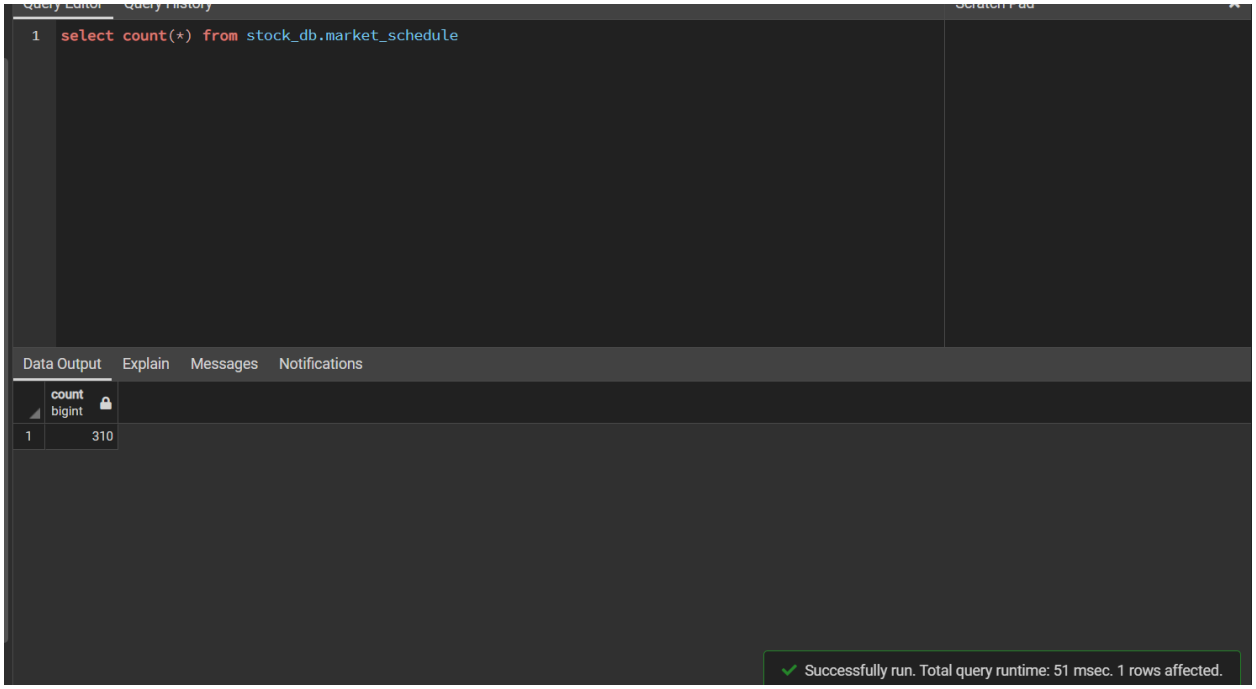


6. **Find out the highest stock price details.**
   SELECT MAX(price) as "avg_sal" from stock_db.stocks



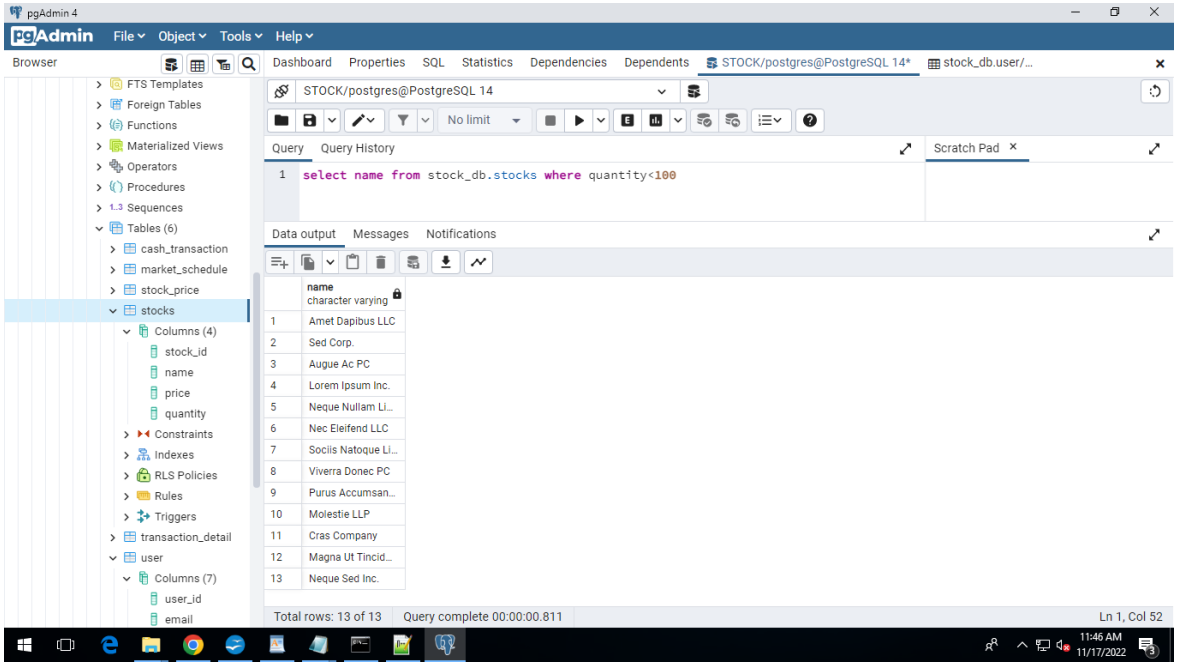
7. Count all rows in market_schedule

select count(*) from stock_db.market_schedule

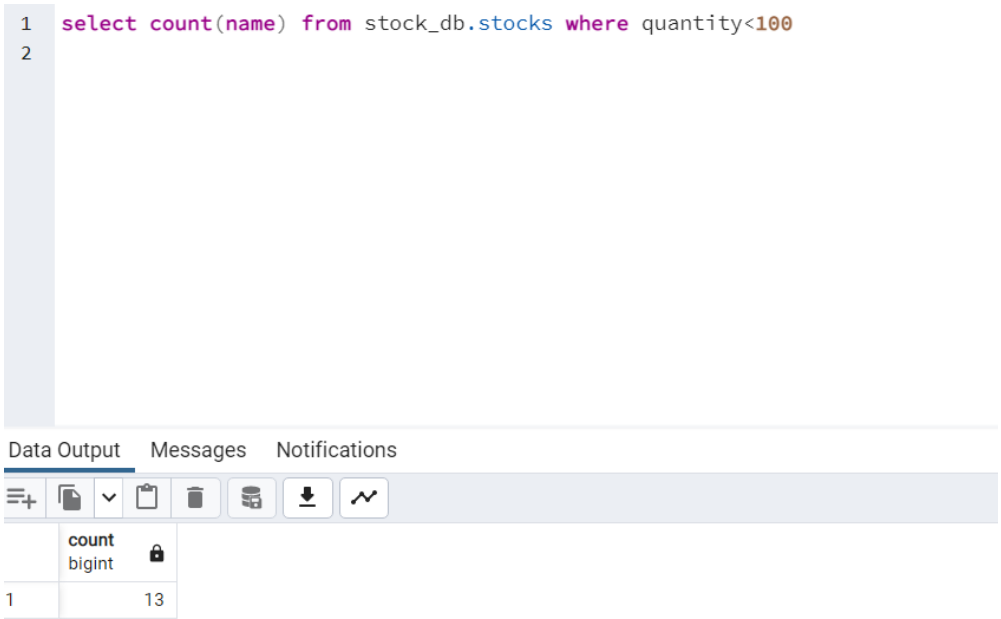


8. **List the names of stocks where the total quantity of stocks is less than 100.**

select name from stock_db.stocks where quantity<100

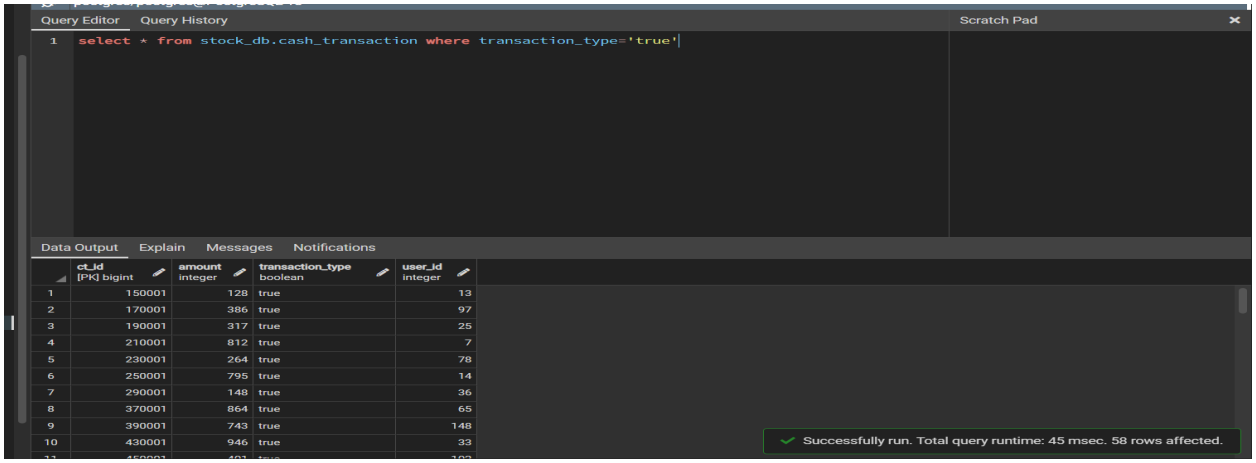


select count(name) from stock_db.stocks where quantity<100



9. **Find out transactions whose transaction_type is credit**

select * from stock_db.cash_transaction where transaction_type='true'

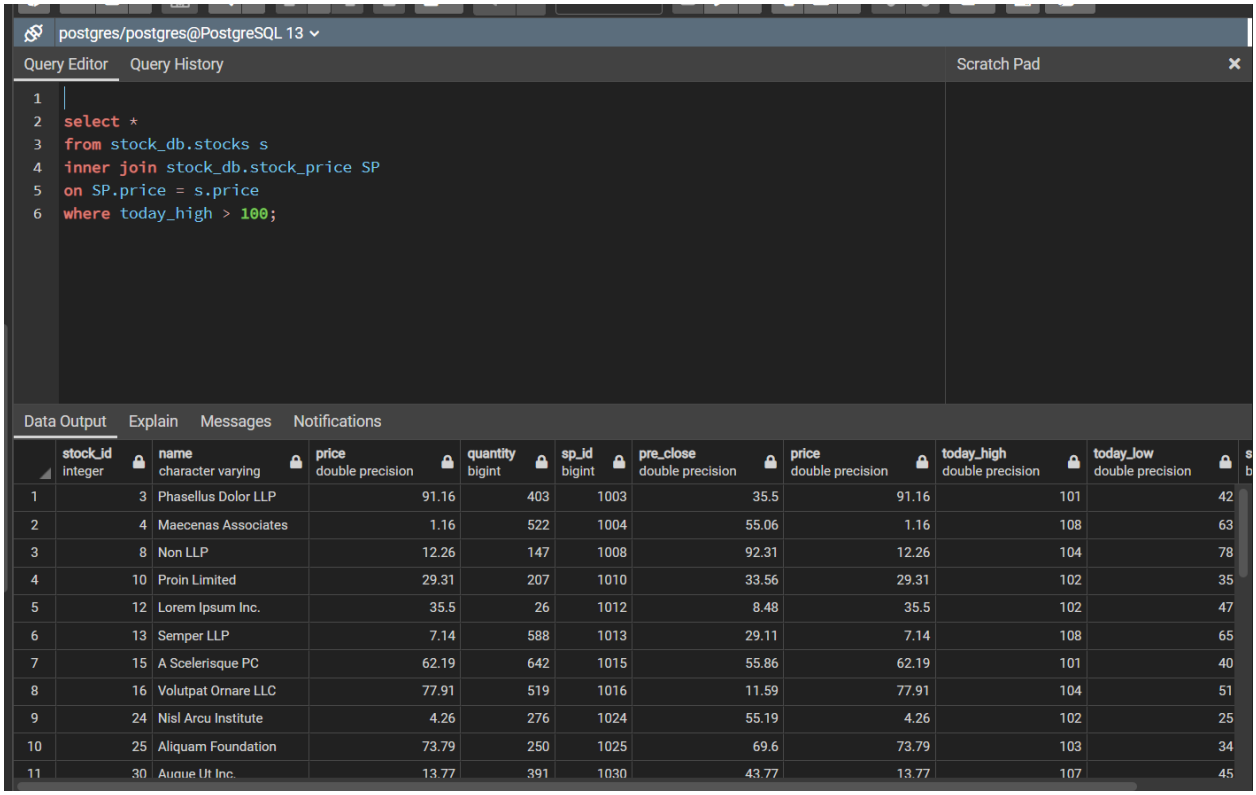


select count(*) from stock_db.cash_transaction where transaction_type='true'

10. **Find the stock details where the today's high is more than 100$.**

    select * from stock_db.stocks s inner join stock_db.stock_price SP

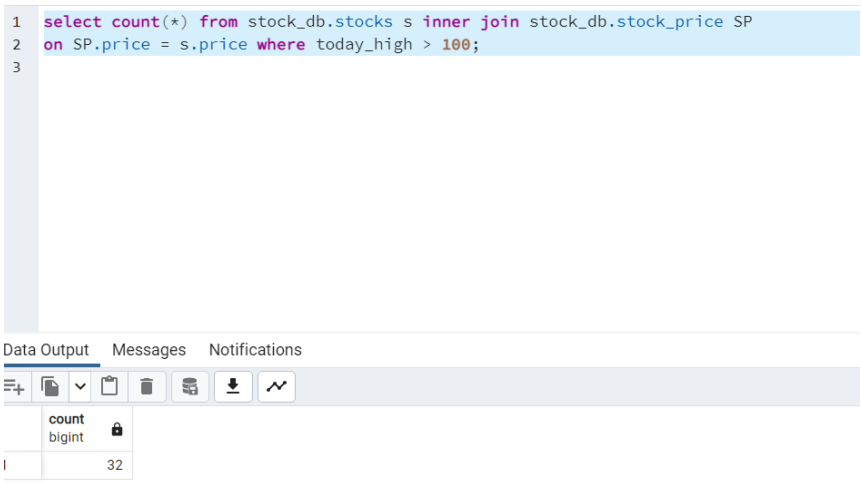
    on SP.price = s.price where today_high > 100;



	stock_id integer	name character varying	price double precision	quantity bigint	sp_id bigint	pre_close double precision	price double precision	today_high double precision	today_low double precision
1	3	Phasellus Dolor LLP	91.16	403	1003	35.5	91.16	101	42
2	4	Maecenas Associates	1.16	522	1004	55.06	1.16	108	63
3	8	Non LLP	12.26	147	1008	92.31	12.26	104	78
4	10	Proin Limited	29.31	207	1010	33.56	29.31	102	35
5	12	Lorem Ipsum Inc.	35.5	26	1012	8.48	35.5	102	47
6	13	Semper LLP	7.14	588	1013	29.11	7.14	108	65
7	15	A Scelerisque PC	62.19	642	1015	55.86	62.19	101	40
8	16	Volutpat Ornare LLC	77.91	519	1016	11.59	77.91	104	51
9	24	Nisl Arcu Institute	4.26	276	1024	55.19	4.26	102	25
10	25	Aliquam Foundation	73.79	250	1025	69.6	73.79	103	34
11	30	Augue Ut Inc.	13.77	391	1030	43.77	13.77	107	45

select count(*) from stock_db.stocks s inner join stock_db.stock_price SP

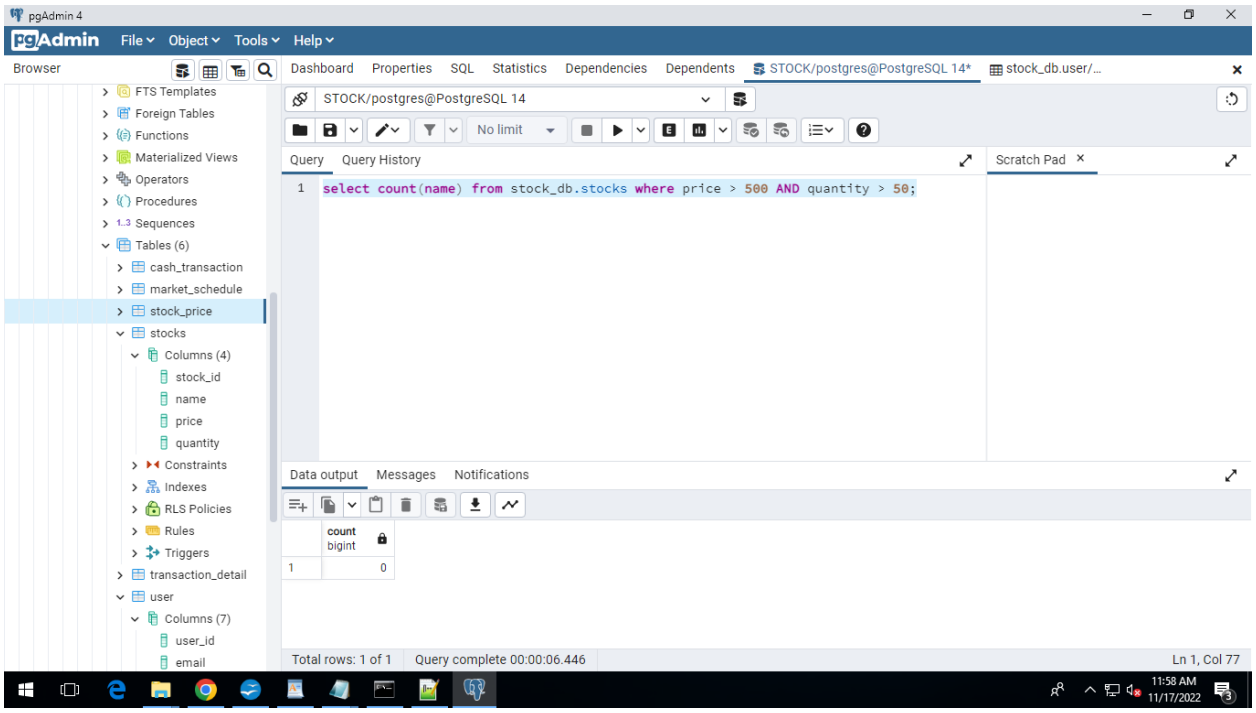
on SP.price = s.price where today_high > 100;



	count bigint
1	32

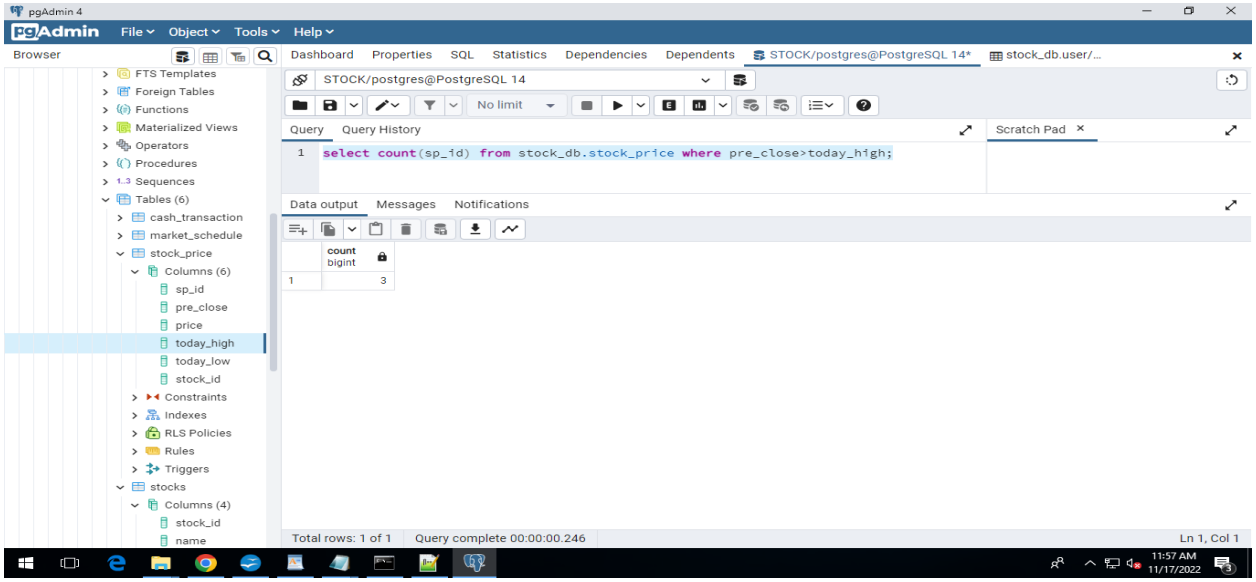
11. **find out stocks where price is greater than 500$ and quantity is greater than 50**

select count(name) from stock_db.stocks where price > 500 AND quantity > 50;



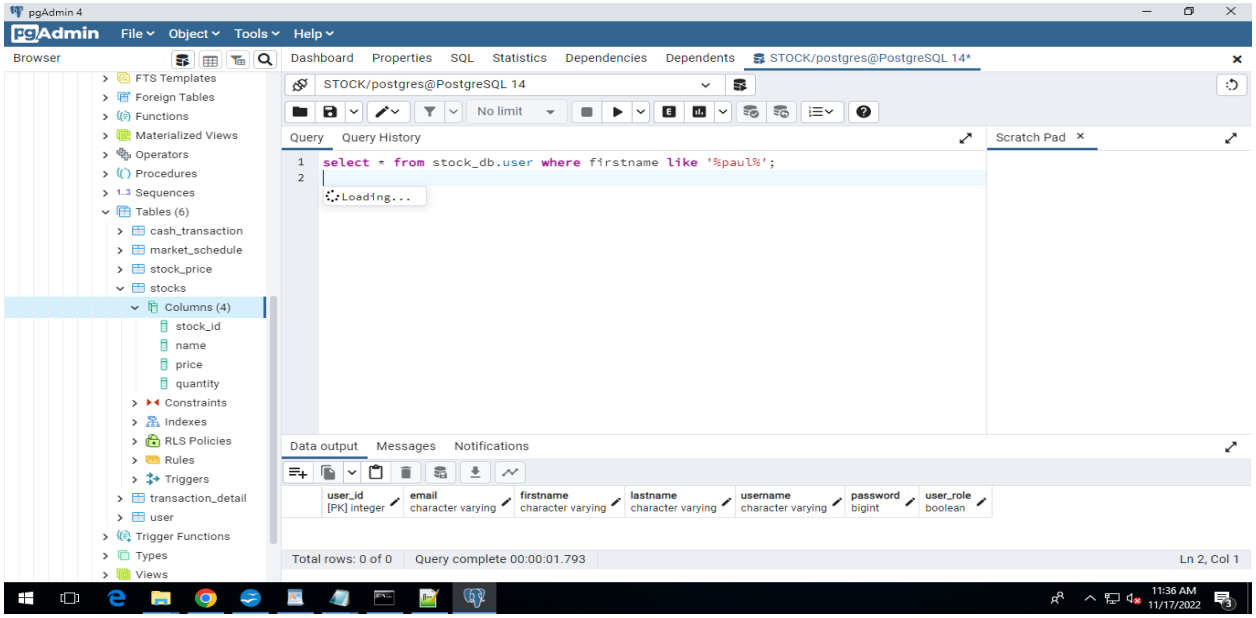
12. Count the stock_id's where the pre close is greater then the today's high

select count(*) from stock_db.stock_price where pre_close>today_high



13. Find out the detail of user whose first name is.paul

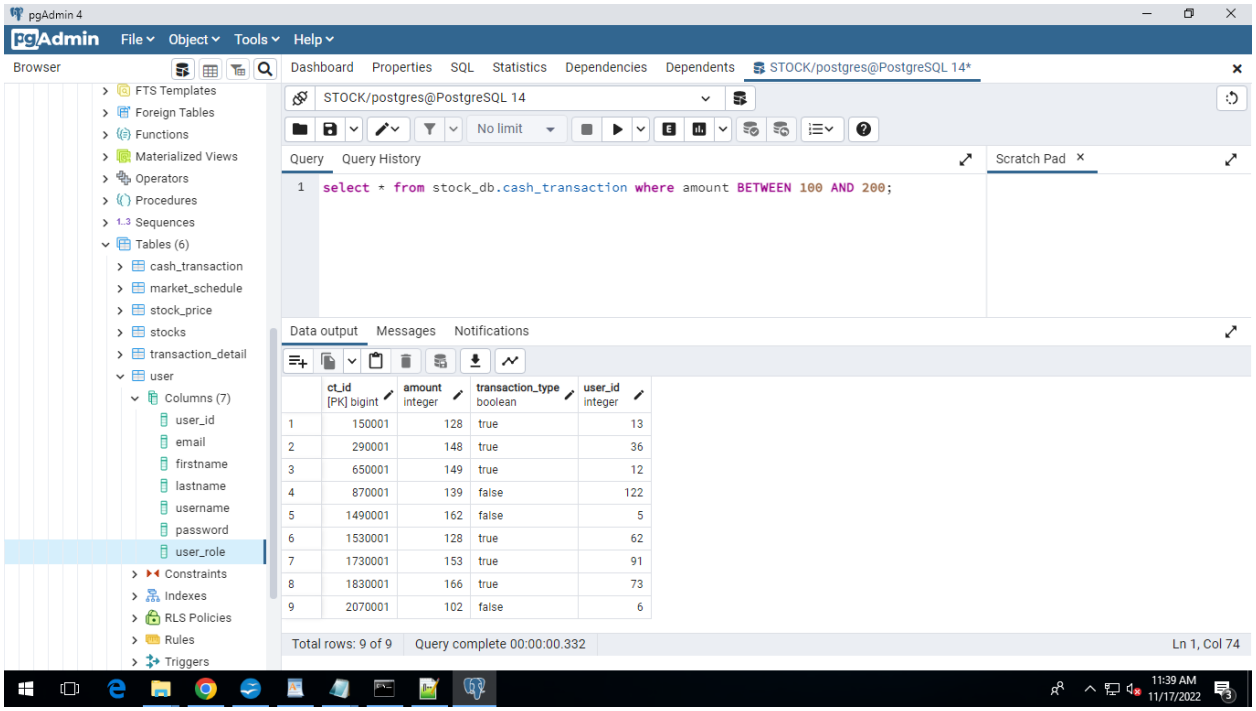
select * from stock_db.user where firstname like '%paul%';



select count(*) from stock_db.user where firstname like '%paul%';

14. find the details of the cash transaction where the amount is between 100-200$.

select * from stock_db.cash_transaction where amount BETWEEN 100 AND 200;



select count(*) from stock_db.cash_transaction where amount BETWEEN 100 AND 200;

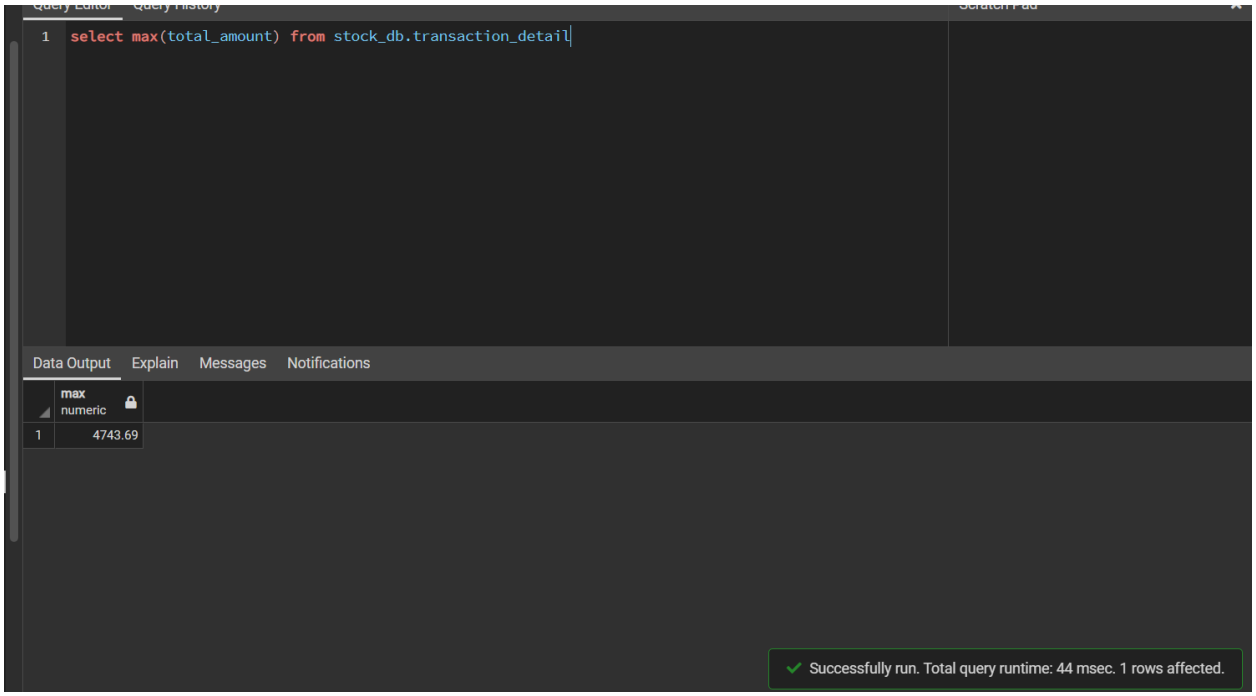
```
1  select count(*) from stock_db.cash_transaction where amount BETWEEN 100 AND 200;
2
```

Data Output | Messages | Notifications

	count bigint
1	9

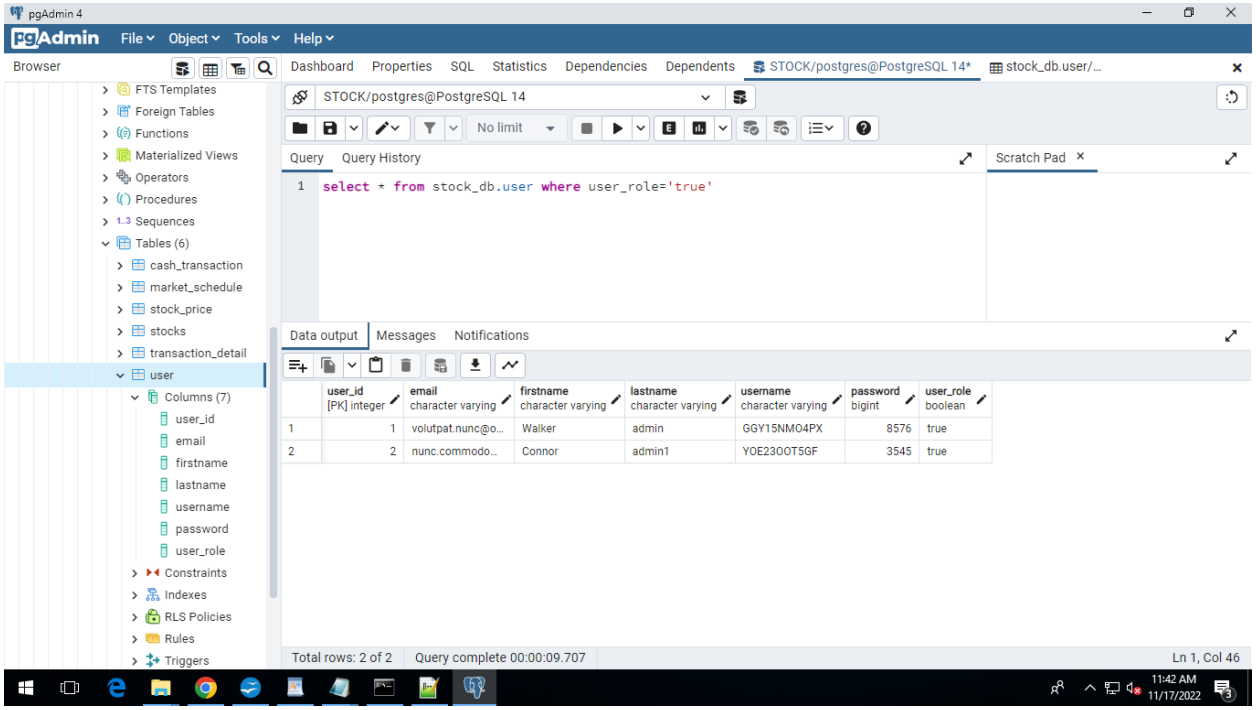
15> Display record for the maximum total amount in transaction

select max(total_amount) from stock_db.transaction_detail



16>Show admin's details

select * from stock_db.user where user_role='true'



select count(*) from stock_db.user where user_role='true'

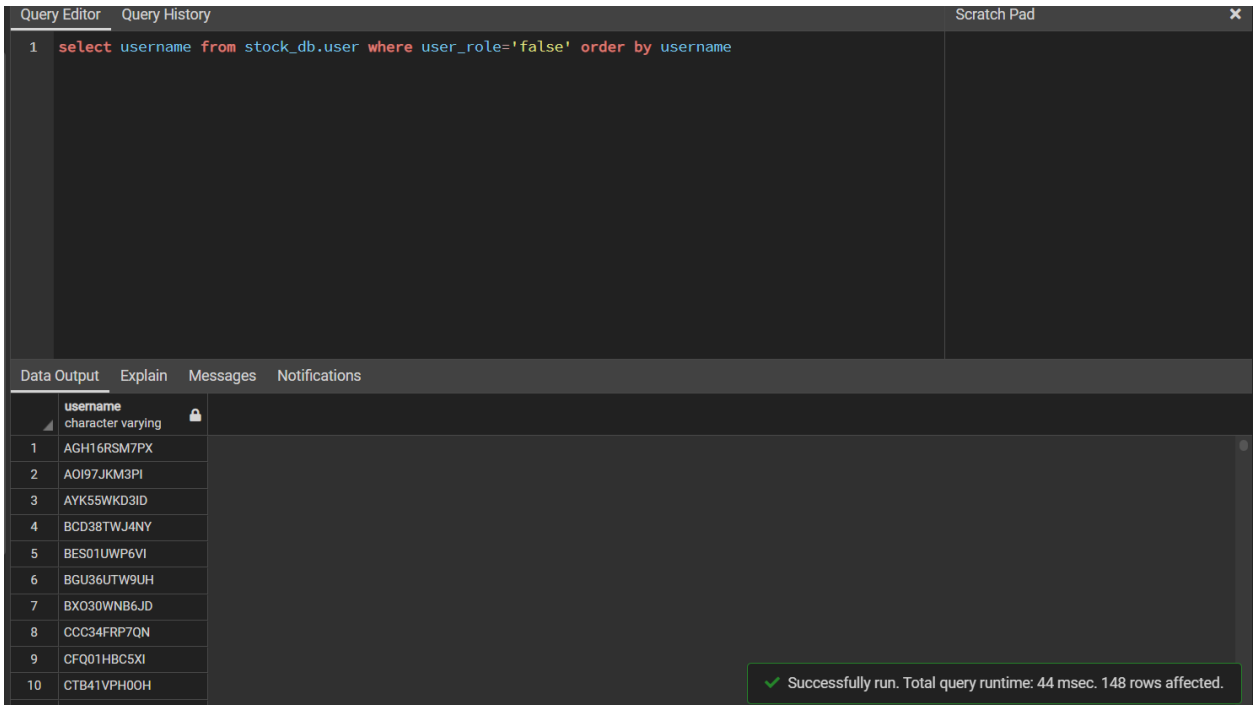
```
1  select count(*) from stock_db.user where user_role='true'
```

Data Output Messages Notifications

	count bigint
1	2

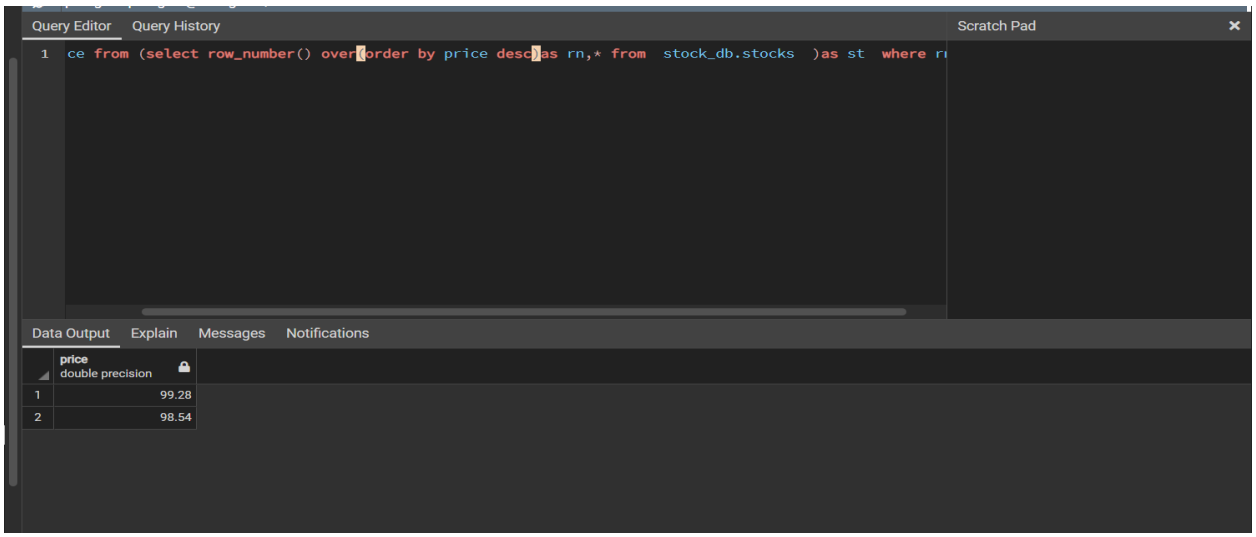
17> Find username of user in ascending order of user_id for admin

ans>select username from stock_db.user where user_role='false' order by username



18>Select details of top 2 highest stock price from stocks

select price from (select row_number() over(order by price desc)as rn,* from stock_db.stocks)as st where rn<=2



select count(price) from (select row_number() over(order by price desc)as rn,* from stock_db.stocks) as st where rn<=2

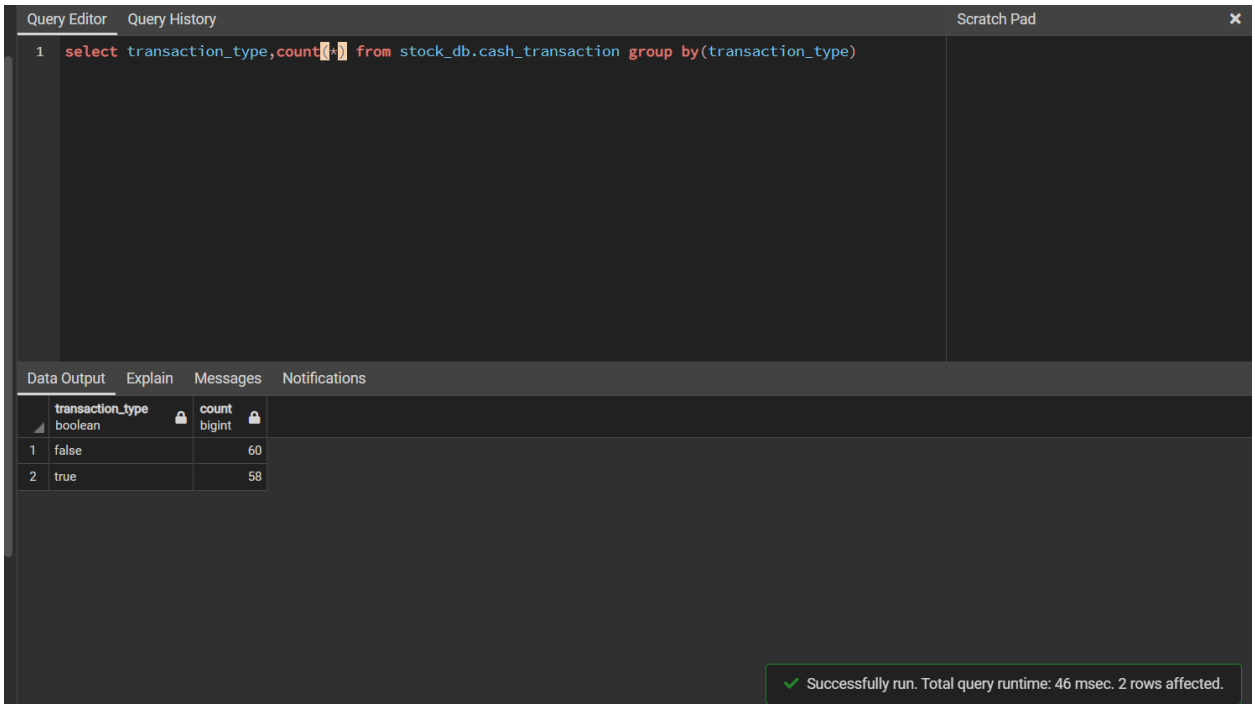
```
1  select count(price) from (select row_number()
2  over(order by price desc)as rn,* from  stock_db.stocks  )
3  as st  where rn<=2
4
```

Data Output Messages Notifications

	count bigint
1	2

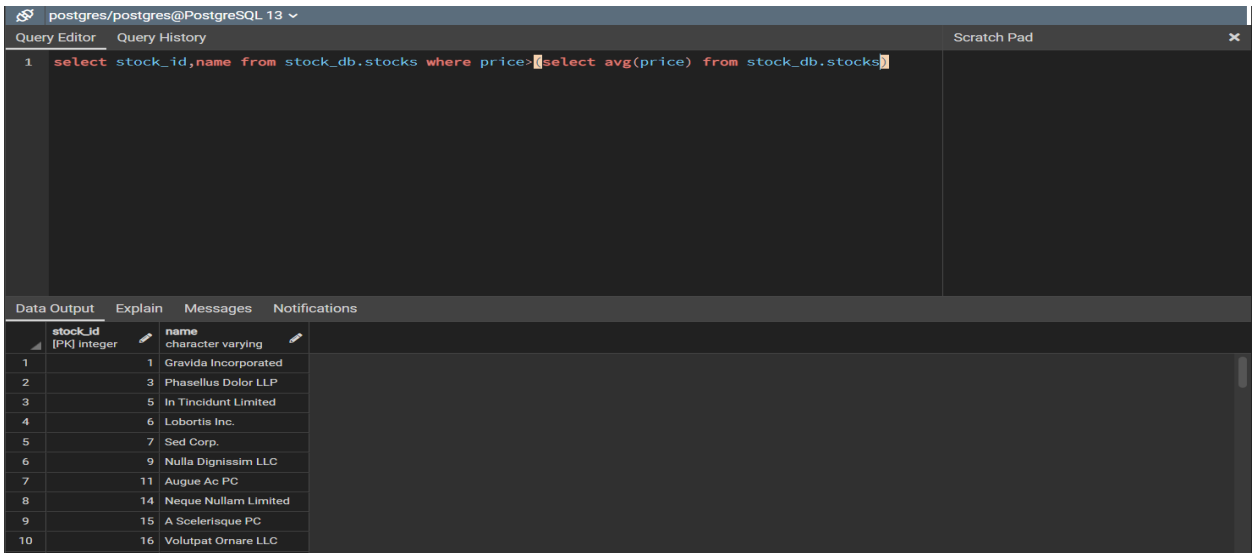
19>Print count of different types of cash transactions

select transaction_type,count(*) from stock_db.cash_transaction group by(transaction_type)



20>Print stock id and name whose price is greater than average of price value

select stock_id,name from stock_db.stocks where price>(select avg(price) from stock_db.stocks)



select count(stock_id) from stock_db.stocks where price>(select avg(price) from stock_db.stocks)

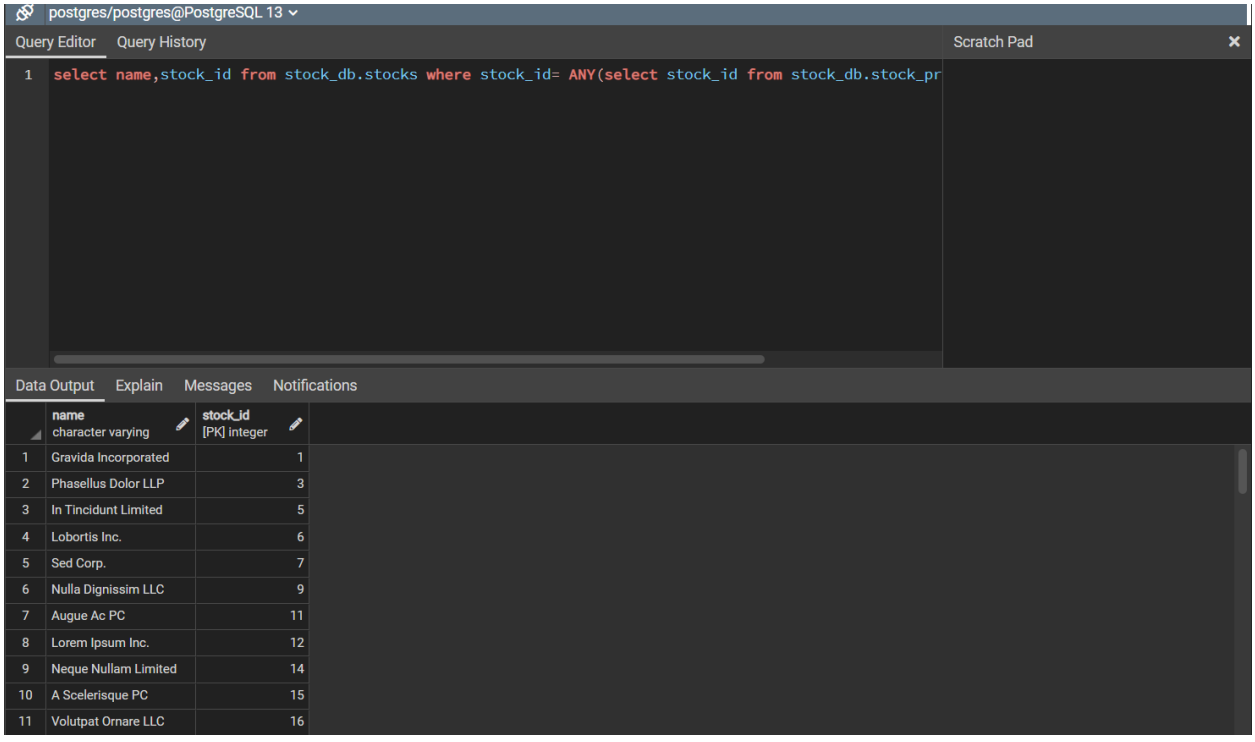
```
1  select count(stock_id) from stoc [F5] where price>(select avg(price) from stock_db.stocks)
2
```

Data Output | Messages | Notifications

	count bigint
1	57

21>Find stock names an ids whose price is greater than previous close

select name,stock_id from stock_db.stocks where stock_id= ANY(select stock_id from stock_db.stock_price where price>pre_close)



	name character varying	stock_id [PK] integer
1	Gravida Incorporated	1
2	Phasellus Dolor LLP	3
3	In Tincidunt Limited	5
4	Lobortis Inc.	6
5	Sed Corp.	7
6	Nulla Dignissim LLC	9
7	Augue Ac PC	11
8	Lorem Ipsum Inc.	12
9	Neque Nullam Limited	14
10	A Scelerisque PC	15
11	Volutpat Ornare LLC	16

select count(stock_id) from stock_db.stocks where stock_id= ANY(select stock_id from stock_db.stock_price where price>pre_close)

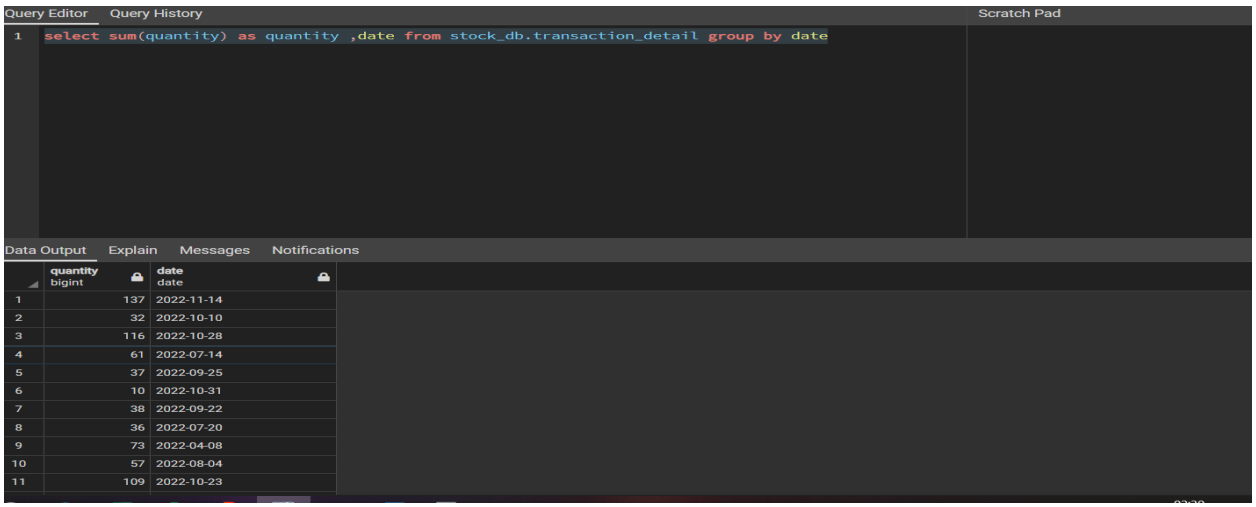
```
1  select count(stock_id) from stock_db.stocks where
2  stock_id= ANY(select stock_id from
3  stock_db.stock_price where price>pre_close)
4
```

Data Output | Messages | Notifications

	count bigint
1	61

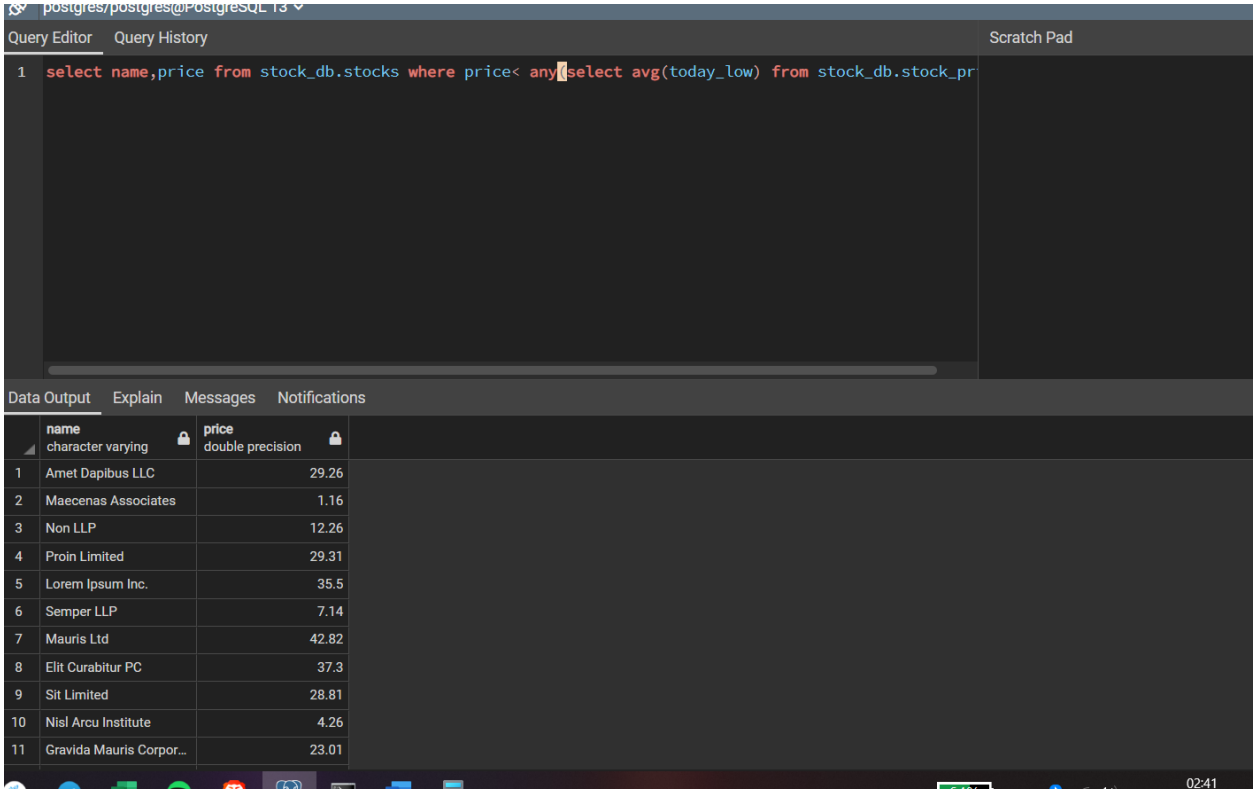
22>Find total quantity of stocks date wise whose transaction is done on particular date

select sum(quantity) as quantity ,date from stock_db.transaction_detail group by date

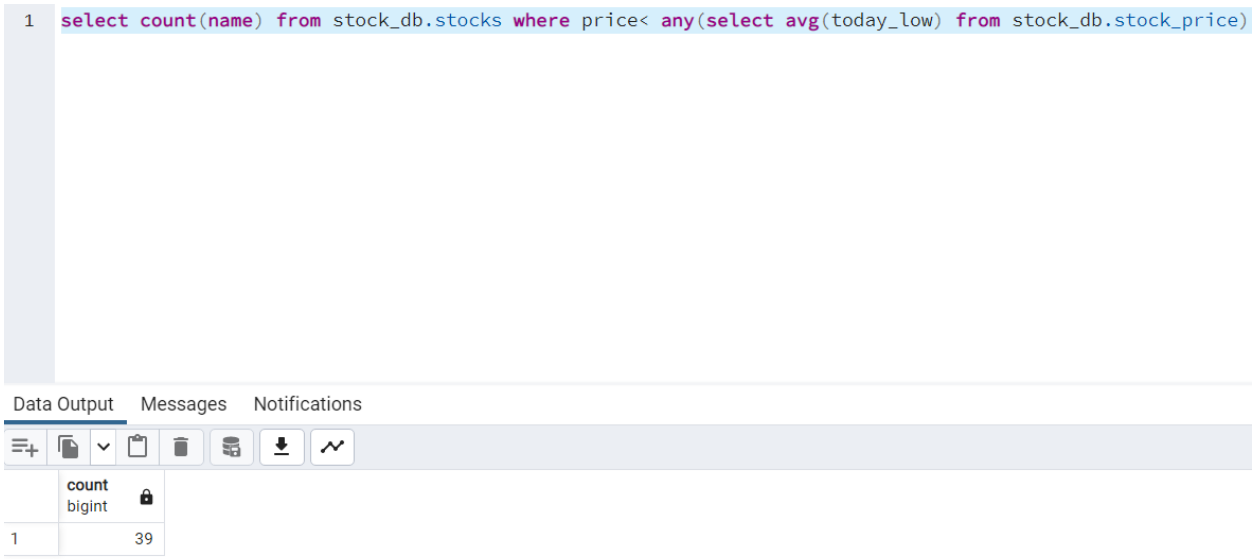


23>Find stock name and price whose price is less than average price of today_low

select name,price from stock_db.stocks where price< any(select avg(today_low) from stock_db.stock_price)

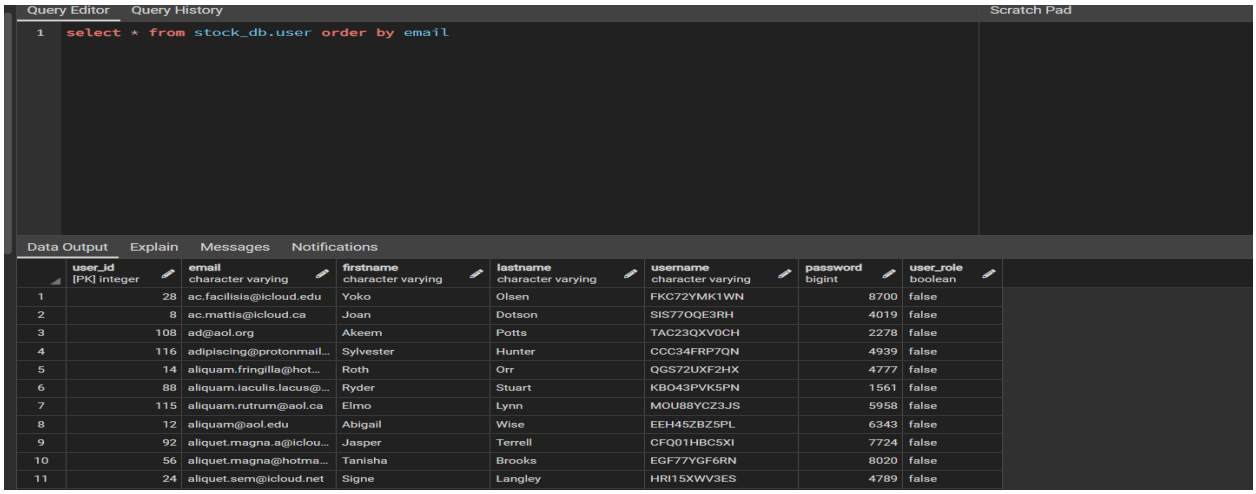


select count(name) from stock_db.stocks where price< any(select avg(today_low) from stock_db.stock_price)



24>Show table of user sorted email-wise

select * from stock_db.user order by email



Query Editor | Query History | Scratch Pad

```
1  select * from stock_db.user order by email
```

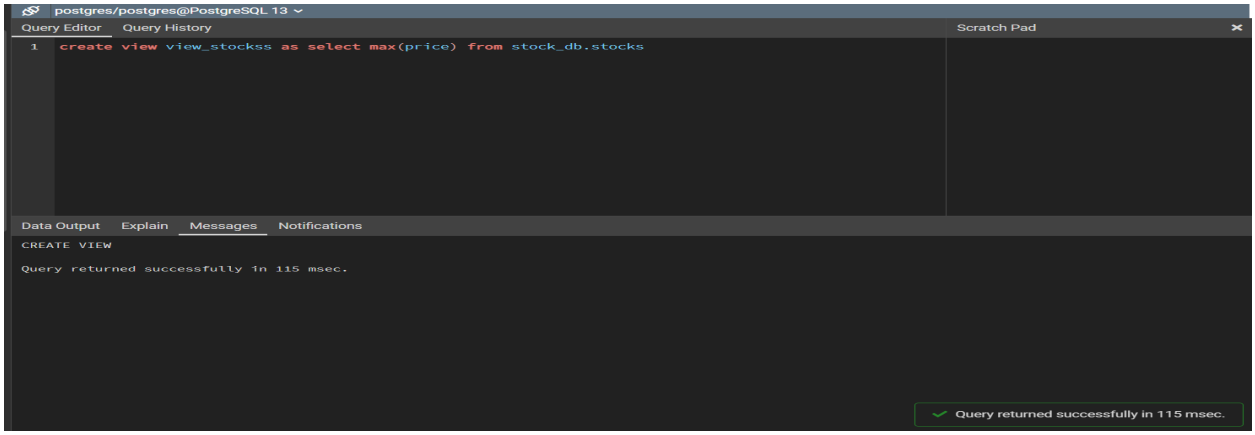
Data Output | Explain | Messages | Notifications

	user_id [PK] integer	email character varying	firstname character varying	lastname character varying	username character varying	password bigint	user_role boolean
1	28	ac.facilisis@icloud.edu	Yoko	Olsen	FKC72YMK1WN	8700	false
2	8	ac.mattis@icloud.ca	Joan	Dotson	SIS77OQE3RH	4019	false
3	108	ad@aol.org	Akeem	Potts	TAC23QXV0CH	2278	false
4	116	adipiscing@protonmail...	Sylvester	Hunter	CCC34FRP7QN	4939	false
5	14	aliquam.fringilla@hot...	Roth	Orr	QGS72UXF2HX	4777	false
6	88	aliquam.iaculis.lacus@...	Ryder	Stuart	KBO43PVK5PN	1561	false
7	115	aliquam.rutrum@aol.ca	Elmo	Lynn	MOU88YCZ3JS	5958	false
8	12	aliquam@aol.edu	Abigail	Wise	EEH45ZBZ5PL	6343	false
9	92	aliquet.magna.a@iclou...	Jasper	Terrell	CFQ01HBC5XI	7724	false
10	56	aliquet.magna@hotma...	Tanisha	Brooks	EGF77YGF6RN	8020	false
11	24	aliquet.sem@icloud.net	Signe	Langley	HRI15XWV3ES	4789	false

25>create view of maximum price

create view view_stockss as select max(price) from stock_db.stocks

select * from view_stockss



postgres/postgres@PostgreSQL 13

Query Editor | Query History | Scratch Pad

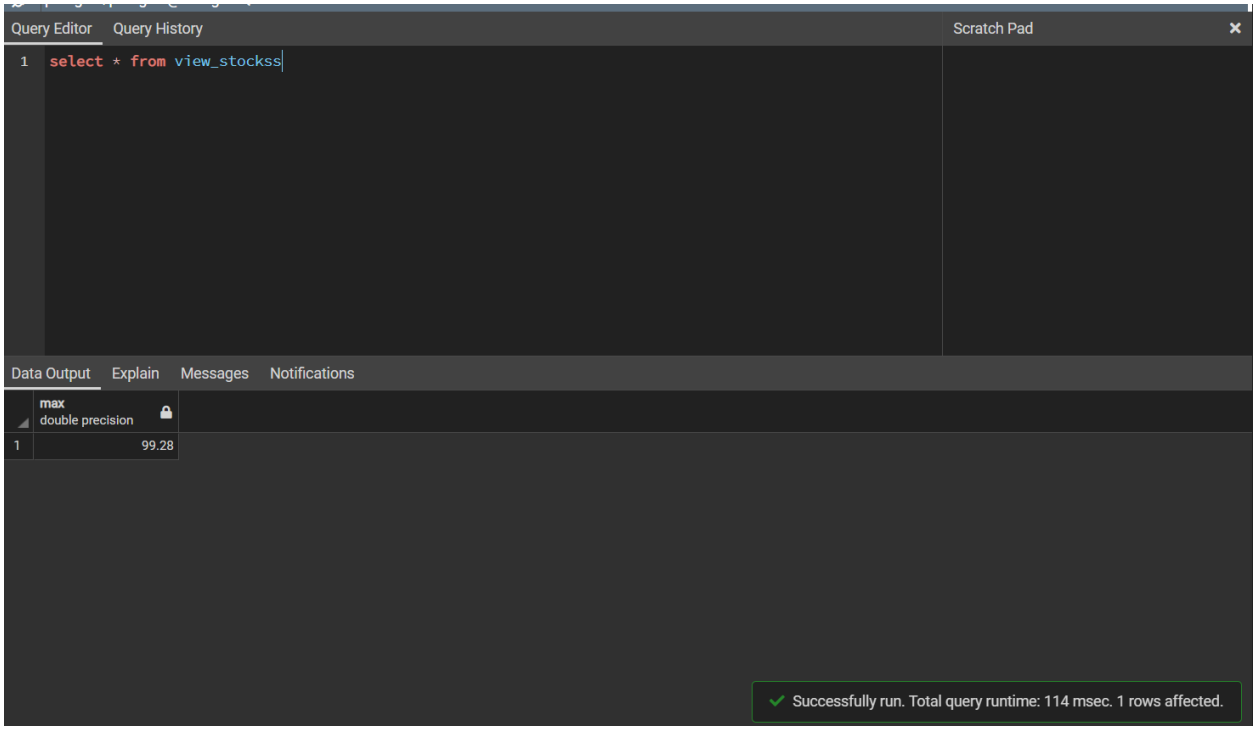
```
1  create view view_stockss as select max(price) from stock_db.stocks
```

Data Output | Explain | Messages | Notifications

```
CREATE VIEW

Query returned successfully in 115 msec.
```

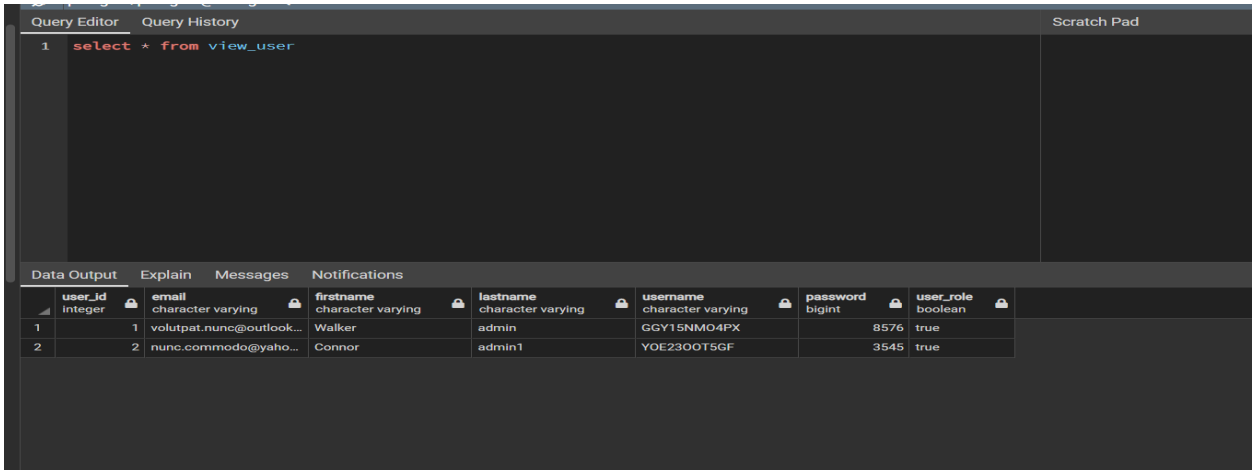
Query returned successfully in 115 msec.



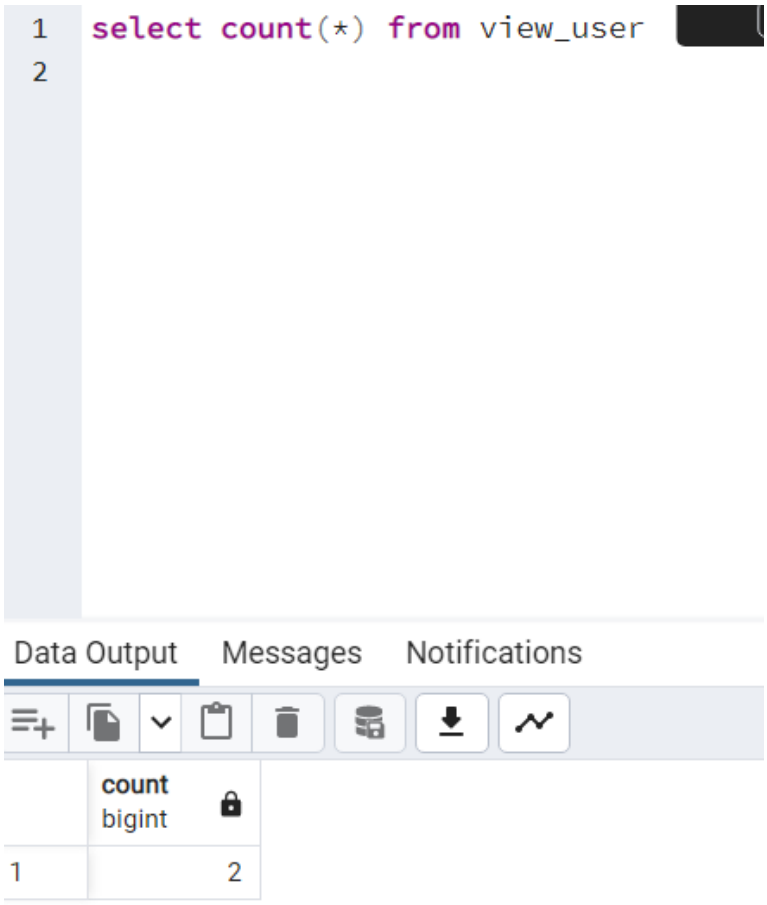
26>create a view for admin details then insert and display some new admin to the recently created view.

create view view_user as select * from stock_db.user where user_role='true'

select * from view_user



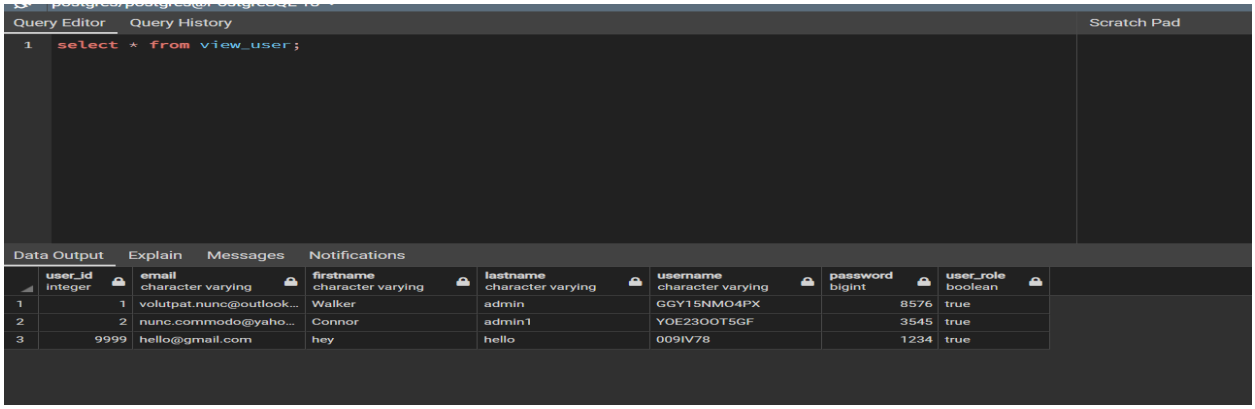
select count(*) from view_user



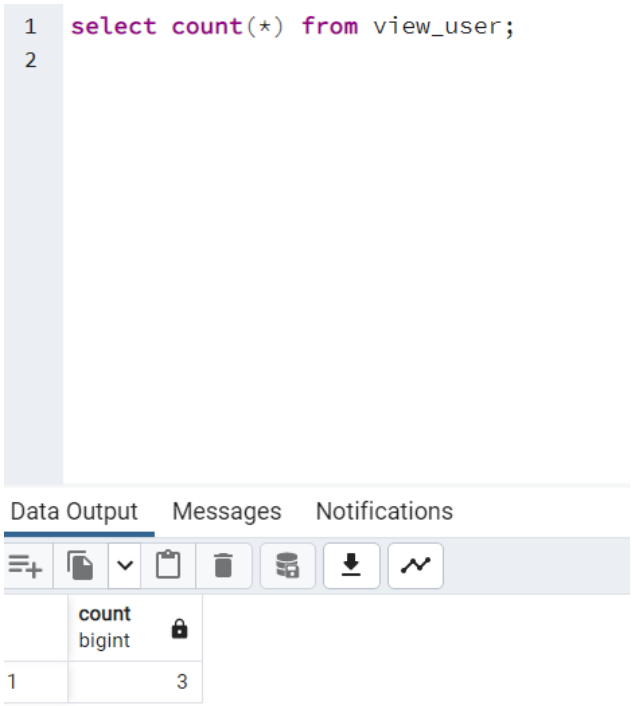
insert into view_user(user_id,email,firstname,lastname,username,password,user_role

) values(9999,'hello@gmail.com','hey','hello','009IV78',1234,'true')

select * from view_user;



select count(*) from view_user;



27>Create and display a view all the details of transactions whose type is debit (debit = false)

create view view_transaction as select * from stock_db.cash_transaction where transaction_type=false

Query Editor | Query History | Scratch Pad

```
1  create view view_transaction as select * from stock_db.cash_transaction where transaction_type=false
```

Data Output | Explain | Messages | Notifications

```
CREATE VIEW

Query returned successfully in 132 msec.
```

select * from view_transaction

Query Editor | Query History | Scratch Pad

```
1  select * from view_transaction
```

Data Output | Explain | Messages | Notifications

	ct_id bigint	amount integer	transaction_type boolean	user_id integer
1	270001	589	false	79
2	310001	823	false	66
3	330001	988	false	34
4	350001	792	false	117
5	410001	320	false	68
6	470001	926	false	95
7	510001	689	false	62
8	530001	590	false	143
9	590001	60	false	11
10	710001	378	false	67
11	730001	296	false	149

Successfully run. Total query runtime: 107 msec. 60 rows affected.

select count(*) from view_transaction

```
1  select count(*) from view_transaction
2
```

Data Output | Messages | Notifications

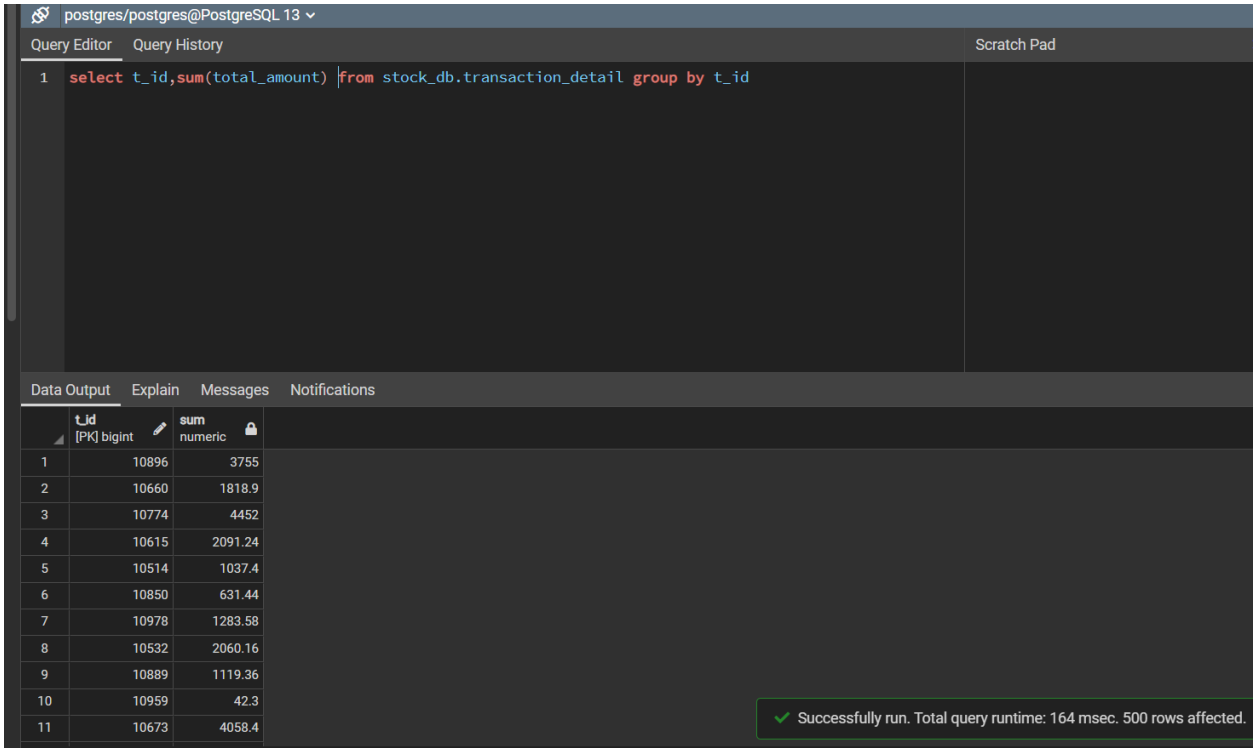
	count bigint
1	60

28>Display the sum of total amount transaction wise

select t_id,sum(total_amount) from stock_db.transaction_detail group by t_id

select sum(total_amount) ,date from stock_db.transaction_detail

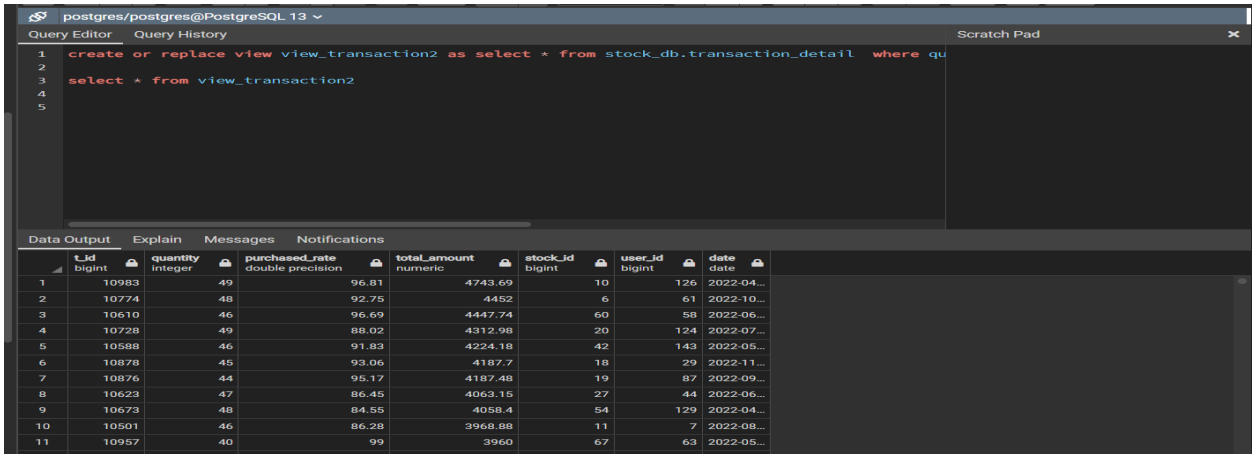
group by date



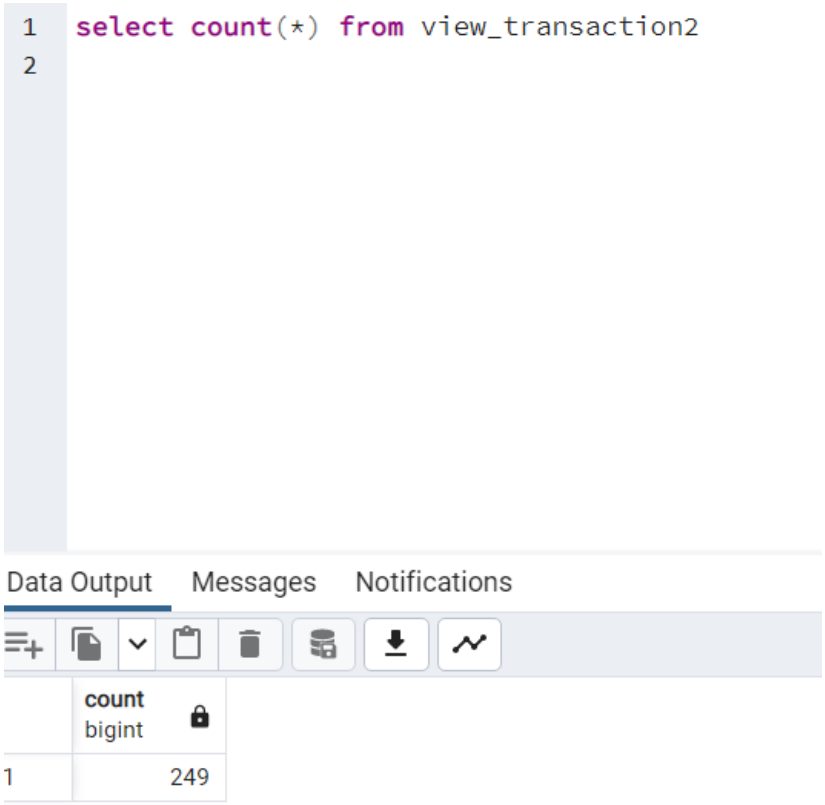
29>Create a view with transaction made whose quantity is greater than average of all quantity in descending order of amount

ans> create or replace view view_transaction2 as select * from stock_db.transaction_detail where quantity>(select avg(quantity) from stock_db.transaction_detail) order by total_amount desc

select * from view_transaction2



select count(*) from view_transaction2



30>Display all the transaction details done on holiday

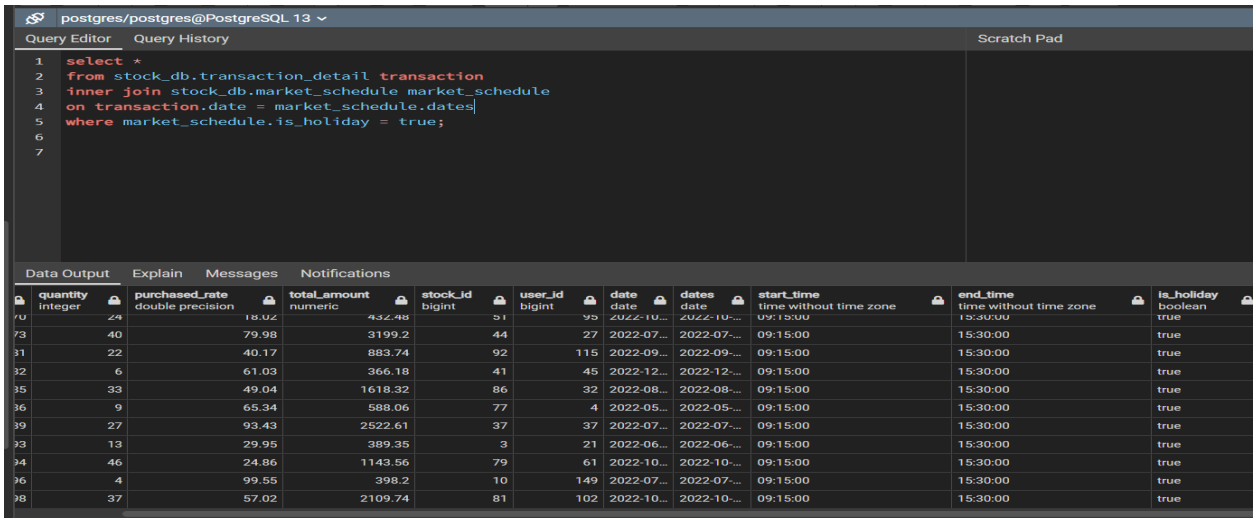
select *

from stock_db.transaction_detail transaction

inner join stock_db.market_schedule market_schedule

on transaction.date = market_schedule.dates

where market_schedule.is_holiday = true;



select count(*) from stock_db.transaction_detail transaction inner join stock_db.market_schedule market_schedule on transaction.date = market_schedule.dates where market_schedule.is_holiday = true;