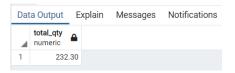
5. Queries

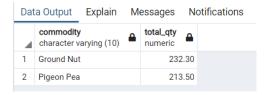
1. What is the total qty of Ground Nut purchased in 2019?

select sum(qty_in_quintal) as total_qty from purchase where commodity= 'Ground Nut' and extract(year from invoice_date)=2019;



2. what is the total qty of commodities purchased in 2019?

select commodity, sum(qty_in_quintal) as total_qty from purchase where extract (year from invoice_date)=2019 group by commodity;



3. What is the Total Qty of commodity purchased by each district?

select district,commodity,sum(qty_in_quintal) as total_qty from farmers as f join purchase as p on f.farmer_id=p.farmer_id group by district,commodity order by total_qty asc;



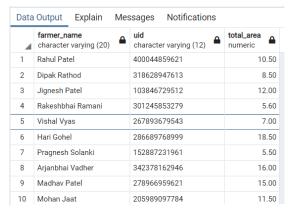
4. What is the avg income of the five highest earning farmers?

select f.farmer_id,farmer_name, avg(payable_amt) as Avg_income from farmers as f join purchase as p on f.farmer_id=p.farmer_id group by f.farmer_id order by Avg_income desc limit 5;



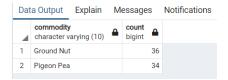
5. List the farmers having land area more than five acre.

select * from (select farmer_name, UID, sum(land_area_in_acre) as Total_area from farmers group by UID,farmer_name) as T where Total_area>5;



6. How many Farmers are getting benefitted from SCSCL?

select commodity, count(farmer_id) from (select distinct farmer_id,commodity from Purchase) as A group by commodity;



7. List the farmers having land in Rajkot.

select Farmer_id,farmer_name,district from farmers where district = 'Rajkot';



8. List the farmers selling Ground Nut between 25-oct-2020 and 25- oct-2021.

select f.farmer_id,farmer_name from farmers as f join purchase as p on f.farmer_id=p.farmer_id where invoice_date between '2020-10-25' and '2021-10-25' and commodity='Ground Nut';

4	farmer_id [PK] character varying (9)	farmer_name character varying (20)	
1	280122315	Mohan Jaat	
2	280122315	Mohan Jaat	
3	280123320	Madhav Patel	
4	280231523	Sameer Patel	
5	280233856	Ram Nagal	
6	110112315	Saurabh Radadaiya	
7	110114318	4318 Vaibhav Vyas	
8	110201523	Rahul Rupareliya	

9. How much quantity of Pigeon Pea was purchased from a farmer in the kharif season of all years?

select farmer_id,sum(qty_in_quintal) from purchase where commodity = 'Pigeon Pea' group by farmer_id;

Data	Output E	xplain	Me	essages	No
4	farmer_id character var	ying (9)	<u></u>	sum numeric	<u></u>
1	031822078			41	.40
2	110112312			20	00.0
3	280233856			7	7.50
4	060319441			39	.50
5	060214125			2	2.00
6	110114318			11	.10
7	032719045			48	3.80

10. What is total qty of Ground Nut purchased in all years?

select sum(qty_in_quintal) from purchase where commodity = 'Ground Nut';



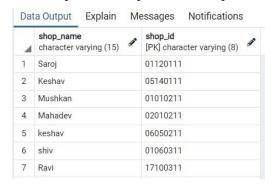
--11. What is the total quantity of each commodity that every center got in 2021?

select center_id, commodity, sum(qty_in_quintal) FROM purchase where extract(year from invoice_date)=2021 group by center_id, commodity order by center_id;

Data Output Explain Me		essages Notifications				
4	center_id character	varying (5)		commodity character varying (10)	<u></u>	sum numeric ♣
1	0307			Ground Nut		23.60
2	0310			Pigeon Pea		31.20
3	0312			Ground Nut		10.50
4	0312			Pigeon Pea		18.20
5	0318			Ground Nut		21.00
6	0318			Pigeon Pea		28.60

12. List the shops in Junagadh district.

select shop_name,shop_id from shop where district = 'Junagadh';



13. What is the total quantity of commodities transferred to the shops in 'Vanthali' taluka between 25th October 2020 and 25th October 2021?

select s.shop_id,shop_name,sum(qty_in_quintal) from shop as s join shop_transport as t on s.shop_id=t.shop_id where taluka ='Vanthali' and tp_date between '2020-10-25' and '2021-10-25' group by s.shop_id, shop_name;



14. List the farmers who do not sell their commodities to SCSCL.

select distinct farmer_id from farmers group by farmer_id except (select distinct farmer_id from purchase group by farmer_id);



15. What are the total number of registrations on uid = '401212347894'?

select count(farmer_id) as No_of_registration from farmers where uid='401212347894';



16. Details of employees working at Olpad-2 center.

select employee_id,employee_name,center_name,manager_id,taluka from employee as e join center as c on e.center_id=c.center_id where center_name='Olpad-2';



17. Which warehouses are managed by Raj Sharma? select * from warehouse as w join manager as m on

w.manager_id=m.manager_id where manager_name='Raj Sharma';



18. list of employees managed by all the managers.

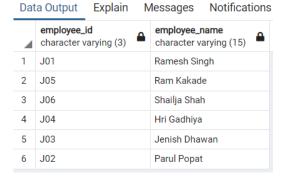
select employee_id,employee_name from

(select center_id,manager_id from center union select warehouse_id,manager_id from warehouse)

as M join

(select center_id,employee_id,employee_name from employee union select warehouse_id,employee_id,employee_name from employee)

as E on M.center_id = E.center_id where manager_id = '11';



19. What was the total quantity of commodity that a shop having ID 01041003 got in all the years?

select s.shop_id,s.shop_name,st.commodity,sum(qty_in_quintal) as total_quntity from shop as s join shop_transport as st on s.shop_id=st.shop_id where s.shop_id='01041003' group by(s.shop_id,st.commodity);



20. List the stock availability on every date in the warehouse having id 281.

select warehouse_id, date, commodity, stock_in_quintal from stocks where warehouse_id='281' and extract(year from date)=2019;

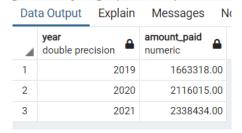
4	warehouse_id character varying (3)	date ate	commodity character varying (15)	stock_in_quintal numeric (10,2)
1	281	2019-03-02	Pigeon Pea	3.50
2	281	2019-04-20	Pigeon Pea	25.60
3	281	2019-04-25	Pigeon Pea	29.60
4	281	2019-06-01	Pegeon Pea	0.00
5	281	2019-09-14	Ground Nut	26.30
6	281	2019-12-01	Ground Nut	0.00

21. What is the stock on 05-May-2019?

select warehouse_id, commodity, stock_in_quintal from stocks where warehouse_id='281' and date<='2019-05-05' order by date desc limit 1;



22. What is the total amount that SCSCL paid to all the farmers every year? select extract(year from invoice_date) as year, sum(payable_amt) as Amount_paid from purchase group by extract(year from invoice_date) order by year;



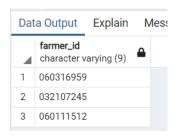
23. What is the total quantity of Ground Nut or Pigeon Pea purchased from a farmers?

select commodity, sum(qty_in_quintal) as total_purchase from purchase group by commodity;

L	Dat	a Output Explain	IVI	essages Notifications
	4	commodity character varying (10)	<u></u>	total_purchase numeric
ſ	1	Ground Nut		737.30
	2	Pigeon Pea		765.70

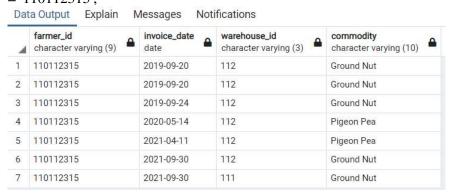
24. List the farmers who sell Pigeon Pea but not Ground Nut.

select farmer_id from purchase where commodity = 'Pigeon Pea' except select farmer_id from purchase where commodity = 'Ground Nut';



25. Farmer having id 110112315 transported his commodity to which warehouse?

select farmer_id,invoice_date,warehouse_id,P.commodity from purchase as P join wh_transport as W on P.invoice_no = W.invoice_no where farmer_id = '110112315';



26. List the farmers whose commodities got transported to a warehouse having id 281.

select distinct f.farmer_id,farmer_name from farmers as f join purchase as p on f.farmer_id=p.farmer_id join wh_transport as wt on p.invoice_no=wt.invoice_no where warehouse_id='281';



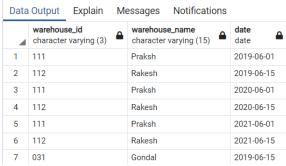
27. List the farmers who got paid more than 50,000 in 2020.

select f.farmer_id,f.farmer_name,payable_amt from farmers as f join purchase as p on f.farmer_id=p.farmer_id where payable_amt>50000 and extract(year from invoice_date)='2020';

Data	Output Explain M	essages Notifications	
4	farmer_id character varying (9)	farmer_name character varying (20)	payable_amt numeric (10,2)
1	280349963	Shyam Tiwari	77000.00
2	280341852	Sameer Patel	77000.00
3	280349963	Shyam Tiwari	110000.00
4	280123318	Vishal Vyas	88000.00
5	110201412	Kishan Mehta	77000.00
6	110306852	Rahul Rupareliya	77000.00
7	110201412	Kishan Mehta	110000.00
8	032316360	Arjanbhai Vadher	69300.00

28. Display the date and warehouse on which the stock of Pigeon Pea becomes zero.

select s.warehouse_id,w.warehouse_name,date from stocks as s join warehouse as w on s.warehouse_id=w.warehouse_id where stock_in_quintal=0 and commodity='Pigeon Pea';



29. List the centers who have purchased commodities less than 51 quintal.

select c.center_id,center_name,qty_in_quintal,invoice_date from purchase as p join center as c on p.center_id=c.center_id where commodity='Ground Nut' and season='Kharif' and qty_in_quintal<50;

Data	Output Explain	Messages Notifications	3	
4	center_id character varying (5)	center_name character varying (15)	qty_in_quintal numeric (5,2)	invoice_date date
1	28011	Olpad-1	5.30	2019-09-03
2	28011	Olpad-1	15.00	2019-09-06
3	28012	Olpad-2	6.00	2019-09-13
4	28011	Olpad-1	9.00	2019-10-15
5	2802	Mangrol	4.50	2019-10-24
6	2803	Mandvi	4.50	2019-11-26
7	28011	Olpad-1	8.50	2020-09-05
8	2803	Mandvi	2.00	2020-09-05

30. Which warehouse had maximum quantity of Pigeon Pea in 2019?

select s.warehouse_id,w.warehouse_name,sum(s.in_qty_in_quintal) as total_qty from warehouse as w join stocks as s on w.warehouse_id=s.warehouse_id where commodity='Pigeon Pea' and extract(year from s.date)='2019' group by (s.warehouse_id,w.warehouse_name) order by (total_qty) desc limit 1;



31. Which warehouse had minimum quantity of Ground Nut in 2020?

select s.warehouse_id,w.warehouse_name,sum(s.in_qty_in_quintal) as total_qty from warehouse as w join stocks as s on w.warehouse_id=s.warehouse_id where commodity='Ground Nut' and extract(year from s.date)='2020' group by (s.warehouse_id,w.warehouse_name) order by (total_qty) asc limit 1;



32. What is the average production of Ground Nut Per acre?

select district,(sum(qty_in_quintal)/sum(land_area_in_acre)) as avg_production_per_acre from farmers as f join purchase as p on f.farmer_id=p.farmer_id where commodity='Ground Nut' group by (district);

