# 1. Display name of the patient who has requested A+ve Blood group.

select p\_fname,p\_lname from patient p join request r on p.p\_id=r.p\_id where r\_blood\_group='A Positive';

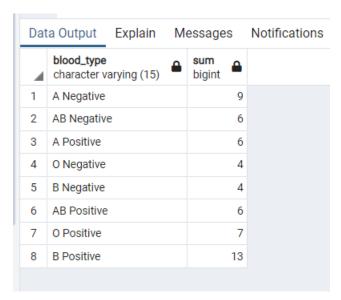
# Output:



# 2.Display blood stock of every available blood type.

select blood\_group,sum(blood\_stock) from inventory group by blood\_group;

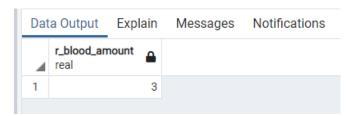
# Output:



# 3. Display the total no. of units requested for B-ve bldtype on date='2021-11-18'.

select r blood amount from request where r blood group='B Negative' and r date='2021-11-18'

# Output:



# 4. Display the details of patient those who has requested for B-ve blood type.

select p.p\_id,p\_fname,p\_lname,p\_age,p\_gender,p\_blood\_group from patient p join request r on p.p id=r.p id where r blood group='B Negative'

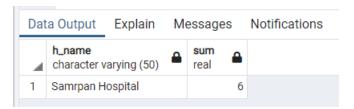
# Output:



# 5. Display the Name of the hospital who has requested highest unit of the blood.

select h.h\_name,sum(r\_blood\_amount) from hospital h join request r on h.h\_id=r.h\_id group by h.h id order by h.h name desc limit 1;

# Output:



# 6.Display Patient name who trasnactio id='tr02'.

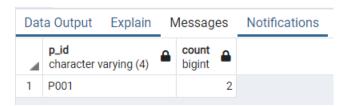
select p fname,p Iname from patient p natural join payment p1 where p1.t id='tr02'

# Output:



# 7. Display the patient transaction details whose pay more then one time.

select p id,count(p id) from payment group by p id having count(p id)>1;



# 8. Display the patient details and amount who pay more than one time.

select p\_fname,p\_lname,p1.t\_amount from patient p join payment p1 on p.p\_id=p1.p\_id where p.p\_id in (select p\_id from payment group by p\_id having count(p\_id)>1);

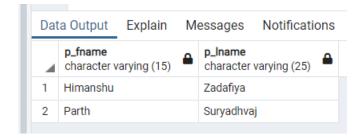
# Output:

4	p_fname character varying (15)	p_Iname character varying (25)	t_amount integer
1	Mitesh	Lathiya	12000
2	Mitesh	Lathiya	19000

# 9. Display the number of patient having disease='Diabetes'.

select p fname,p Iname from patient natural join patient disease where p disease='Diabetes'

# Output:



# 10. Display the patient name who have more than one disease.

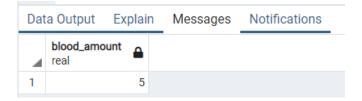
select p\_fname,p\_lname from patient where p\_id in (select p\_id from patient\_disease group by p\_id having count(p\_id)>1)



# 11. Display the number of blood request in a given month (Octomber 2021).

select sum(r\_blood\_amount) as blood\_amount from request where EXTRACT(MONTH FROM r date)=10;

# Output:



# 12. Display all the camp organize in year=2021.

select c\_id,c\_contact\_no,c\_location from camp where EXTRACT(YEAR FROM c\_date)=2021;

# Output:

Dat	a Output Explain Mess	sages Notifications		
4	c_id [PK] character varying (4)	c_contact_no bigint	c_location character varying (30)	
1	c01	9756873456	Varachha	
2	c02	9865456789	Sughad	
3	c03	9534873456	Gill Census Town	
4	c04	9129843456	Ajronda Chowk	
5	c05	9782561456	Indiranagar	
6	c06	9982356326	Sughad	

# 13. Calculate Blood stock for each blood group.

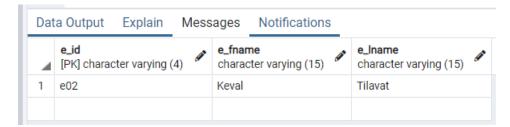
select blood\_group,sum(blood\_stock)as Total\_blood\_Stock from inventory group by blood\_group;



# 14. Display the Details of Employee who work in camp on date=2021-11-18.

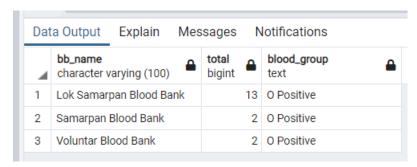
select e\_id,e\_fname,e\_lname from employee e join department d on e.dept\_id=d.dept\_id join camp c on d.dept\_id=c.dept\_id where c\_date='2021-11-18';

# Output:



# 15. Display number of units of O+ve blood group for every branch.

select bb.bb\_name,sum(i.blood\_stock) as Total,'O Positive' as Blood\_Group from inventory i join department d on i.dept\_id=d.dept\_id join blood\_bank bb on d.bb\_id=bb.bb\_id where i.blood\_group='O Positive' group by bb.bb\_name



# 16. Display the Employee Id working in Camp='c03'.

select distinct e\_id,e\_fname,e\_lname from employee e join department d on e.dept\_id=d.dept\_id join camp c on d.dept\_id=c.dept\_id where c.c\_id='c03';

# Output:

Dat	a Output	Explain	Mess	ages Notifications			
4	e_id [PK] charac	cter varying (4)	Ø.	e_fname character varying (15)	Ø.	e_Iname character varying (15)	<b>A</b>
1	e06			Prachi		Bist	
						1	

# 17. Check the blood which is requested by patient is available or not in the inventory of the blood bank ='Voluntar Blood Bank'.

select i.blood\_group as InventoryBlood,i.blood\_stock as InventoryStock,r.r\_blood\_group as PatientRequested,r.r\_blood\_amount as RequestBloodAmount,bb.bb\_name as BloodBankName from inventory i join department d on i.dept\_id=d.dept\_id join blood\_bank bb on d.bb\_id=bb.bb\_id join request r on bb.bb\_id=r.bb\_id join patient p on r.p\_id=p.p\_id where i.blood\_group=r.r\_blood\_group and bb.bb\_name='Voluntar Blood Bank';

#### Output:

Dat	a Output Explain M	essages Notifica	ations		
4	inventoryblood character varying (15)	inventorystock integer	patientrequested character varying (15)	requestbloodamount real	bloodbankname character varying (100)
1	A Negative	3	A Negative	2	Voluntar Blood Bank
2	O Negative	1	O Negative	3	Voluntar Blood Bank

# 18. Display the contact of the dononr whose blood type is A+ve.

select d.d\_id,d\_contact\_no from donor\_contact d natural join donor d1 where d\_blood\_group='A Positive';

Da	ata Outp	ut Explai	n Mess	ages	Notificat	ions
	d_id charac	cter varying (4	<u> </u>	d_cont bigint	act_no 🛕	
1	d003			9	631874367	
2	d011			7	654786789	
3	d011			9	123874367	
4	d017			9	967995674	

# 19. Display the name and contact of the donor whose blood group match with patient requested blood group.

select d.d\_id , d\_fname , d\_lname , d1.d\_contact\_no , d.d\_blood\_group , p.p\_id , p.p\_fname , p.p\_lname , p.p\_blood\_group from donor\_contact d1 join donor d on d1.d\_id=d.d\_id join camp c on d.c\_id=c.c\_id join department dep on c.dept\_id = dep.dept\_id join blood\_bank bb on dep.bb\_id=bb.bb\_id join request r on bb.bb\_id=r.bb\_id join patient p on r.p\_id=p.p\_id where d.d\_blood\_group=p.p\_blood\_group;

# Output:

4	d_id character varying (4)	d_fname character varying (15)	d_Iname character varying (15)	d_contact_no bigint	d_blood_group character varying (15)	p_id character varying (4)	p_fname character varying (15)	p_Iname character varying (25)	p_blood_group character varying (15
1	d002	Krishna	Vaghasiya	8798786789	B Negative	P001	Mitesh	Lathiya	B Negative
2	d003	rachit	singh	9631874367	A Positive	P003	Himanshu	Zadafiya	A Positive
3	d009	Bhumi	Bosamiya	8766735683	A Negative	P002	Vishal	Devani	A Negative
4	d015	Harsh	Doshi	6752321234	O Negative	P004	Keval	Tilavat	O Negative
5	d020	Khusal	Lukhi	8756875687	B Negative	P005	Khushboo	Vadhani	B Negative
6	d020	Khusal	Lukhi	6589764532	B Negative	P005	Khushboo	Vadhani	B Negative

# 20.List all the patients and donors associated with the any particular blood bank.

(select p.p\_id,p\_fname,p\_lname,bb\_name from patient p join request r on p.p\_id=r.p\_id join blood\_bank bb on r.bb\_id=bb.bb\_id where bb\_name='Lok Samarpan Blood Bank')

#### union

(select d.d\_id,d\_fname,d\_lname,bb\_name from donor d join camp c on d.c\_id=c.c\_id join department d1 on c.dept id=d1.dept id join blood bank bb on d1.bb id=bb.bb id where bb name='Lok Samarpan Blood Bank')

4	p_id character varying (4)	p_fname character varying (15)	p_Iname character varying	bb_name character varying (100)
1	d002	Khusal	Lukhi	Lok Samarpan Blood Bank
2	P003	Himanshu	Zadafiya	Lok Samarpan Blood Bank
3	d003	rachit	singh	Lok Samarpan Blood Bank
4	d001	Vishal	Vasoya	Lok Samarpan Blood Bank
5	d007	bhavya	chanrachala	Lok Samarpan Blood Bank
6	d004	Prachi	Bist	Lok Samarpan Blood Bank
7	d006	nidhi	sadhwani	Lok Samarpan Blood Bank
8	d005	Chirag	Chatwani	Lok Samarpan Blood Bank
9	P001	Mitesh	Lathiya	Lok Samarpan Blood Bank
10	d008	astha	deogharia	Lok Samarpan Blood Bank