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 :

Data Output	Explain	Messages	Notifications

	p_fname character varying (15)	p_lname character varying (25)
1	Himanshu	Zadafiya

2.Display blood stock of every available blood type.

   select blood_group,sum(blood_stock) from inventory group by blood_group;

Output :

Data Output	Explain	Messages	Notifications

	blood_type character varying (15)	sum bigint
1	A Negative	9
2	AB Negative	6
3	A Positive	6
4	O Negative	4
5	B Negative	4
6	AB Positive	6
7	O Positive	7
8	B Positive	13

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 :

Data Output	Explain	Messages	Notifications

	r_blood_amount real
1	3

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 :

	p_id [PK] character varying (4)	p_fname character varying (15)	p_lname character varying (25)	p_age integer	p_gender character varying (5)	p_blood_group character varying (15)
1	P001	Mitesh	Lathiya	25	M	B Negative
2	P005	Khushboo	Vadhani	26	F	B Negative

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 :

	h_name character varying (50)	sum real
1	Samrpan Hospital	6

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

select p_fname,p_lname from patient p natural join payment p1 where p1.t_id='tr02'

Output :

	p_fname character varying (15)	p_lname character varying (25)
1	Vishal	Devani

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;

Output :

	p_id character varying (4)	count bigint
1	P001	2

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 :

	p_fname character varying (15)	p_lname 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_lname from patient natural join patient_disease where p_disease='Diabetes'

Output :

Data Output   Explain   Messages   Notifications

	p_fname character varying (15)	p_lname character varying (25)
1	Himanshu	Zadafiya
2	Parth	Suryadhvaj

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)

Output :

Data Output   Explain   Messages   Notifications

	p_fname character varying (15)	p_lname character varying (25)
1	Mitesh	Lathiya
2	Parth	Suryadhvaj

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 :

	blood_amount 🔒 real	
	Data Output	Explain	Messages	Notifications
1	5	

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 :

	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;

Output :

blood_type character varying (15) 🔒	total_blood_stock bigint 🔒
1	A Negative	9
2	AB Negative	6
3	A Positive	6
4	O Negative	4
5	B Negative	4
6	AB Positive	6
7	O Positive	7
8	B Positive	13

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 :

e_id [PK] character varying (4)	e_fname character varying (15)	e_lname character varying (15)
1	e02	Keval	Tilavat

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

Output :

bb_name character varying (100) 🔒	total bigint 🔒	blood_group text 🔒
1	Lok Samarpan Blood Bank	13	O Positive
2	Samarpan Blood Bank	2	O Positive
3	Voluntar Blood Bank	2	O Positive

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 :

	e_id [PK] character varying (4)	e_fname character varying (15)	e_lname character varying (15)
1	e06	Prachi	Bist

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 :

	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';

Output :

	d_id character varying (4)	d_contact_no bigint
1	d003	9631874367
2	d011	7654786789
3	d011	9123874367
4	d017	9967995674

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 :

Data Output   Explain   Messages   Notifications

	d_id character varying (4)	d_fname character varying (15)	d_lname character varying (15)	d_contact_no bigint	d_blood_group character varying (15)	p_id character varying (4)	p_fname character varying (15)	p_lname 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')

Output :

Data Output   Explain   Messages   Notifications

	p_id character varying (4)	p_fname character varying (15)	p_lname 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