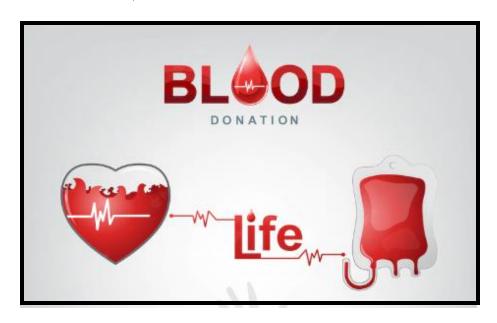
SQL PROJECT....



Project Name: Blood Donation Date: 18/12/2022

Project Mentor: Mrs. Prachi Sadavarte Batch: Master in Data Science&

Project Leader: Miss. Rutuja. B. Rokade Analytics with AI

Project Objectives

• Create a database using SQL commands.

Project Scope

• Using SQL Statement and Such as DDL, DML & DQL to access specified data.

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Data Definition Language[DDL] &Data Manipulation Language[DML]

1. Create and insert

```
create table B_Donation_center(c_id int primary key,City varchar(10),Center_name varchar(20));
insert into B_Donation_center values(1,"Thane","LBDC"),

(2,"Kolhapur","KBDC"),

(3,"Ahemdhnagar","ABDC"),

(4,"Pune","BGC");
```

create table Blood_donors_info(ID int,Name varchar(30),Age int,Blood_Group varchar(3),PRIMARY KEY(ID,Name,Age),

c_id int,FOREIGN key(c_id)REFERENCES B_Donation_center(c_id));

(10,"Tushar Nikam",30,"AB+",1);

 $\label{local_bound} \mbox{create table Blood_Bank(B_ID\ int\ PRIMARY\ key,BD_ID\ int,\ FOREIGN\ key(BD_ID)REFERENCES\ Blood_donors_info(ID));}$

```
insert into deliv_Blood_Bank values("BB1",7),

("BB2",6),

("BB3",4),

("BB4",2),

("BB5",1),

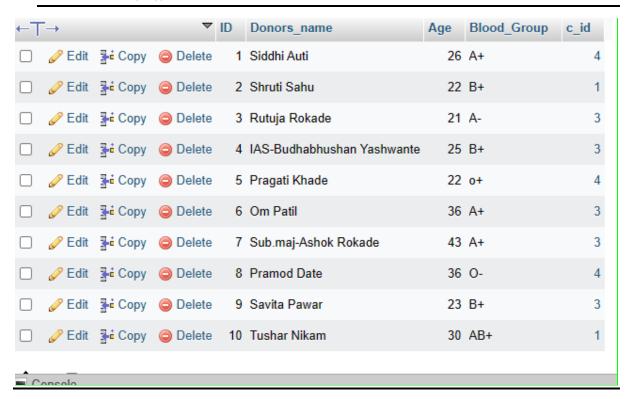
("BB6",10),
```

("BB7",8);

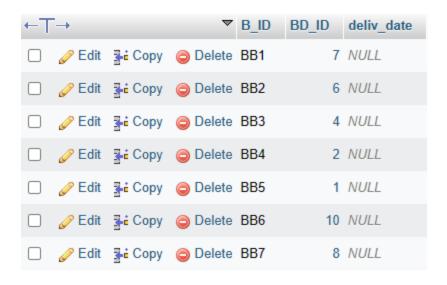
Modifying the structure of a Table:

2. Alter Query

a. alter table blood_donors_info change COLUMN Name Donors_name VARCHAR(30);

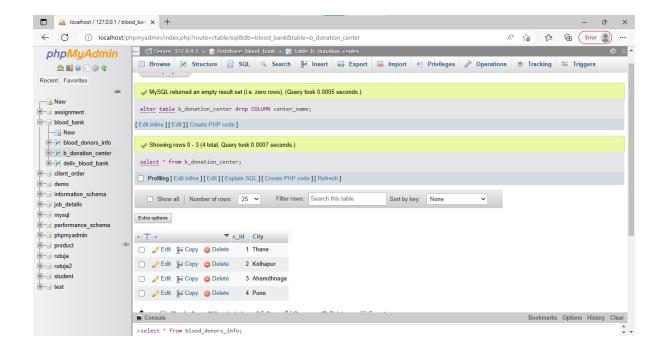


b. alter table deliv_blood_bank add deliv_date date;



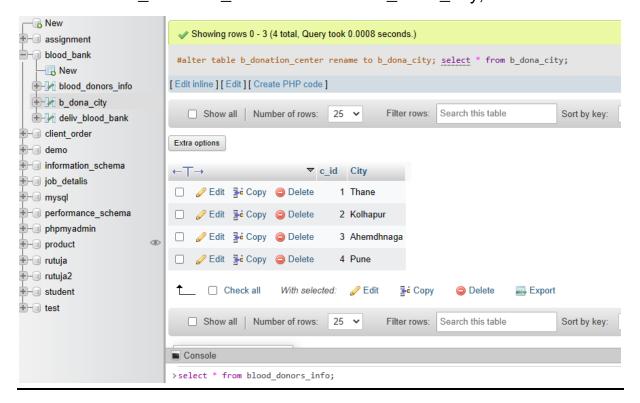
3. Drop table

a. alter table b_donation_center drop COLUMN center_name;



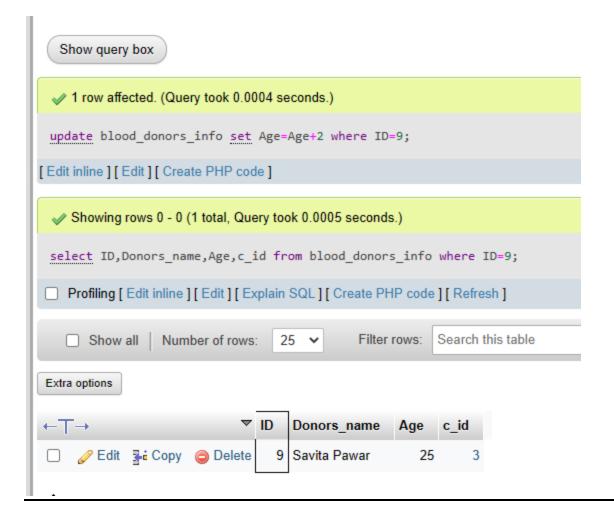
4. Rename

a. alter table b_donation_center rename to b_dona_city;

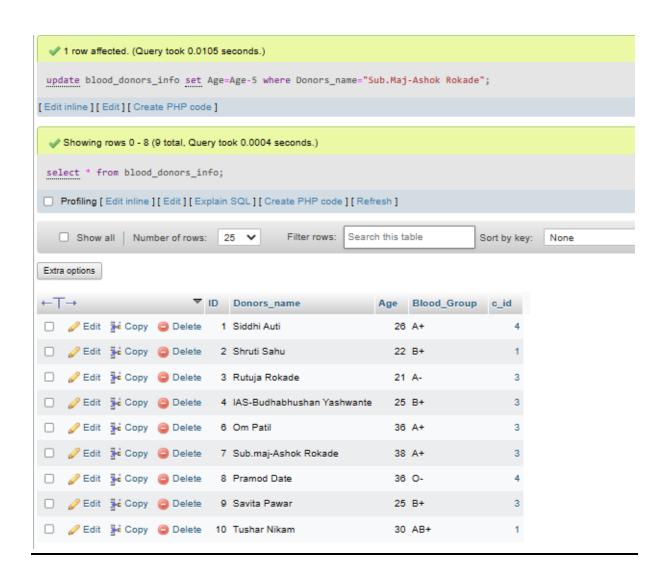


Data Manipulation Language[DML]

 update blood_donors_info set Age=Age+2 where ID=9;

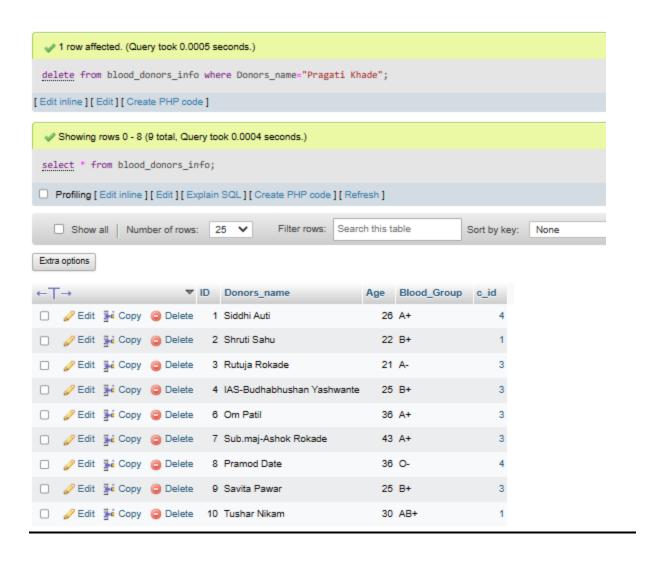


update blood_donors_info
 set Age=Age-5
 where Donors_name="Sub.Maj-Ashok Rokade";



3. Delete command-

delete from blood_donors_info where Donors_name="Pragati
Khade";

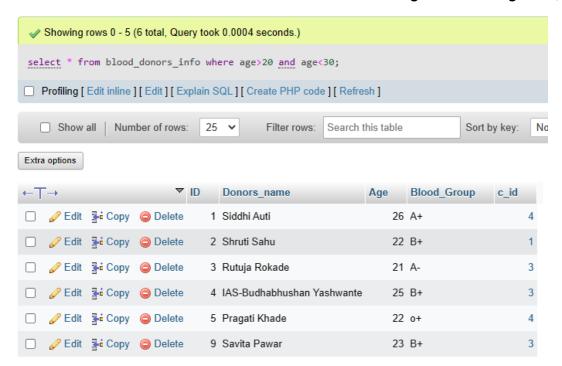




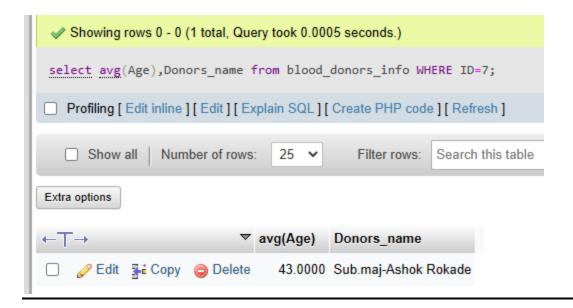
- Arithmetic , Comparison & Logical operators
- 1. select * from blood_donors_info where id=1 or id=2;



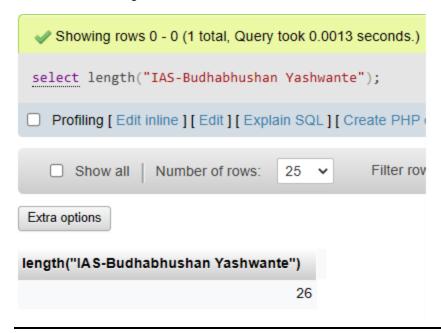
2. select * from blood_donors_info where age>20 and age<30;



3. select avg(Age),Donors_name from blood_donors_info WHERE ID=7;

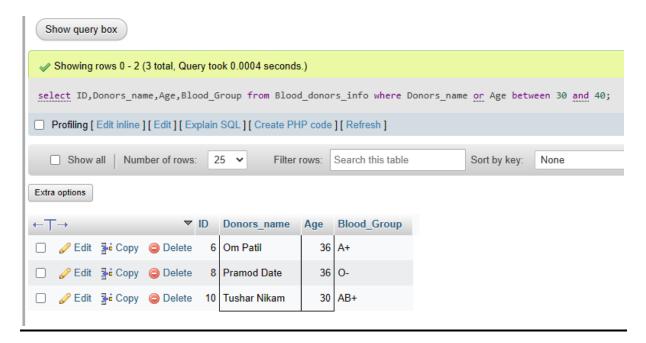


4. select length("IAS-Budhabhushan Yashwante");

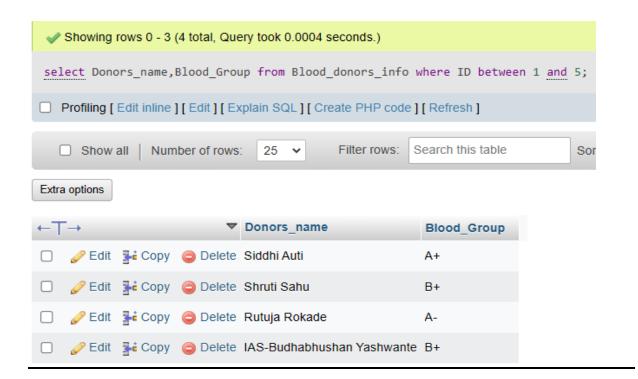


• Between Operator

 select ID,Donors_name,Age,Blood_Group from Blood_donors_info where Donors_name or Age between 30 and 40;

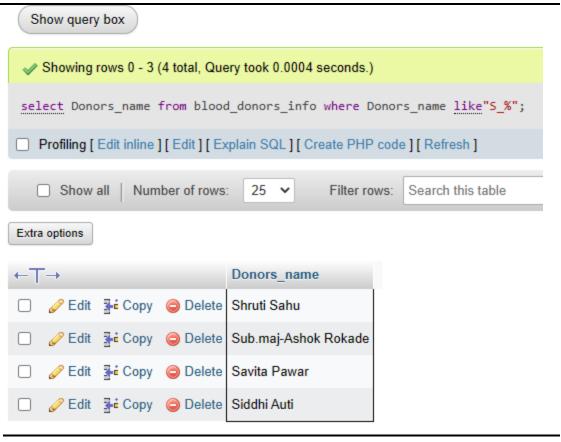


select Donors_name,Blood_Group from Blood_donors_info where ID between 1 and
 ;

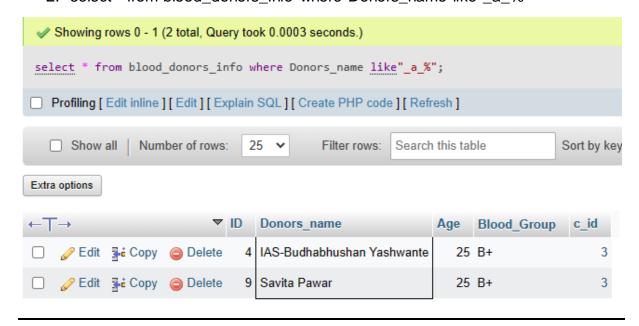


Like Operator

1. select Donors_name from blood_donors_info where Donors_name like"S_%"

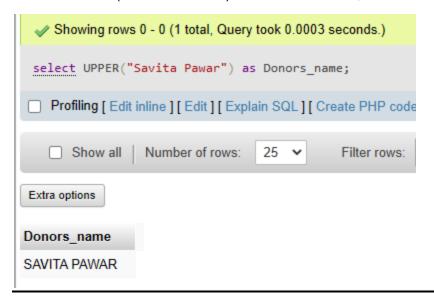


2. select * from blood_donors_info where Donors_name like"_a_%"



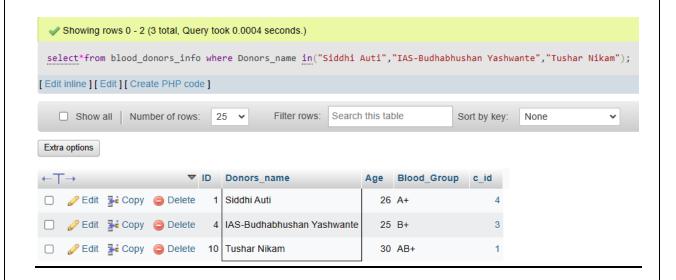
• String Function

select UPPER("Savita Pawar") as Donors_name;



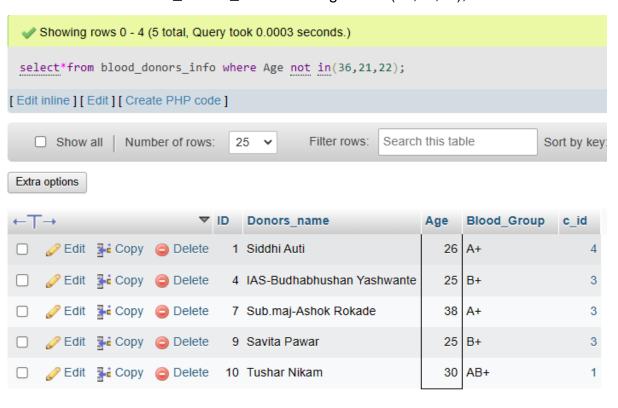
IN clause

select*from blood_donors_info where Donors_name in("Siddhi Auti","IAS-Budhabhushan Yashwante","Tushar Nikam");



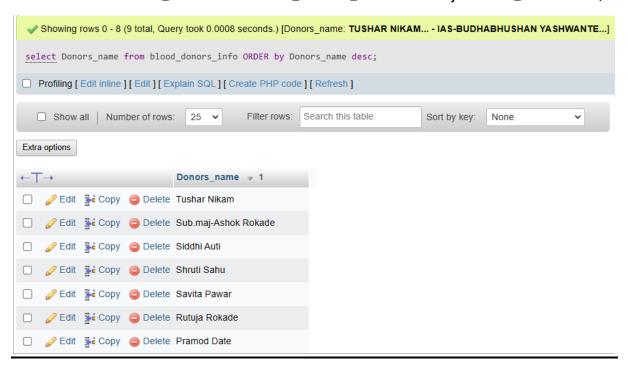
Not In clause

select*from blood_donors_info where Age not in(36,21,22);



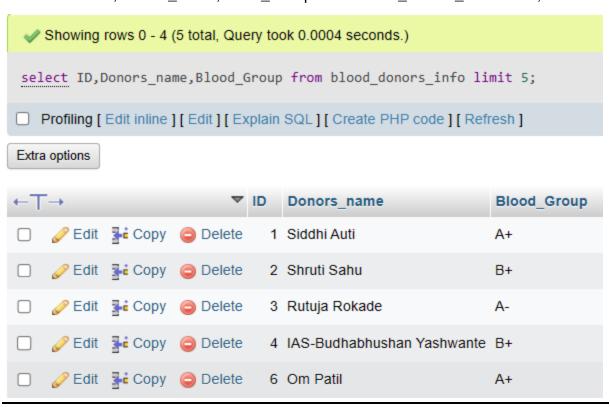
Order By & Top

select Donors_name from blood_donors_info ORDER by Donors_name desc;



Limit Operator

1. select ID,Donors_name,Blood_Group from blood_donors_info limit 5;



2. select ID, Donors_name,Age from blood_donors_info order by Age LIMIT 6;

select ID, Donors_name, Age from blood_donors_info order by Age LIMIT 6;
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

←Τ	→		~	ID	Donors_name	Age	△ 1
	Ø Edit	≩ € Сору	Delete	3	Rutuja Rokade		21
		≩- € Сору	Delete	2	Shruti Sahu		22
	<i> </i>	≩ € Сору	Delete	4	IAS-Budhabhushan Yashwante		25
	Ø Edit	≩ € Сору	Delete	9	Savita Pawar		25
	<i> </i>	≩ Сору	Delete	1	Siddhi Auti		26
	<i> </i>	≩ € Сору	Delete	10	Tushar Nikam		30

join

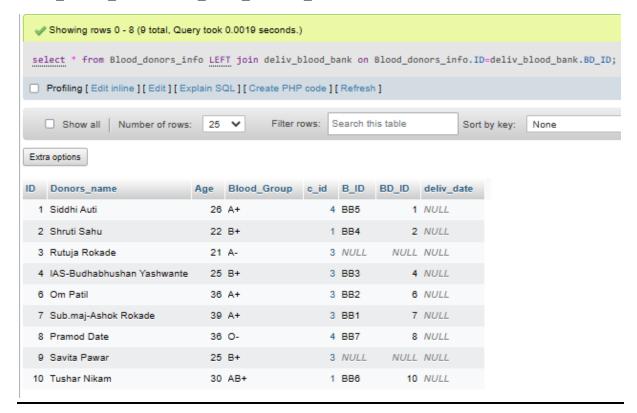
1. Inner Join

select * from deliv_blood_bank inner join blood_donors_info on
deliv_blood_bank.BD_ID=Blood_donors_info.ID;

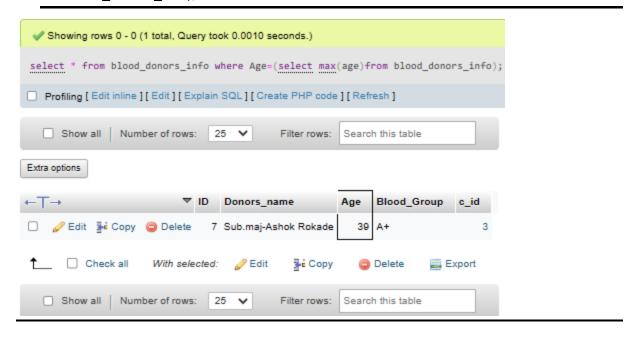


2. Left Join

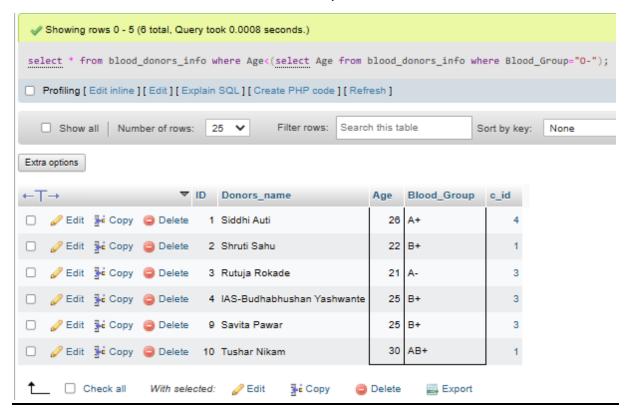
select * from Blood_donors_info LEFT join deliv_blood_bank on Blood_donors_info.ID=deliv_blood_bank.BD_ID;



- Sub-Query-
- select * from blood_donors_info where Age=(select max(age)from blood donors info);



 select * from blood_donors_info where Age <(select Age from blood_donors_info where Blood_Group="0-");



Views

create view under 26 as

select * from blood_donors_info where Age<=(select Age from blood_donors_info where Age=26);

