

Group-14 Donation

Submitted for partial fulfillment B.Tech CSE with specialization
(AIML) 4th Semester Under

Subject Code CSU – 357

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The Donation Database is designed to track and manage donations and related entities. Here's a brief overview of how the entities interact within the database:

1.Charity Emp (Charity Employee):

- Represents employees working for the charity organization.
- Contains attributes like EID (Employee ID), E_Name (Employee Name), E_Password, E_Phone, E_Task, and Status.
- Each employee is assigned specific tasks and has a status indicating their employment status.

2.Admin:

- Represents administrators responsible for managing the donation system.
- Contains attributes like Admin_id, A_Username, A_Password, and EID (Employee ID).
- An admin is associated with an employee and has a unique admin ID.

3.Needy_People:

- Represents individuals or families in need of assistance.
- Contains attributes like National_id, N_Name, N_Phone, N_Password, Location, Family Member, Income, EID (Employee ID), and Admin_id.
- Needy people are identified by their national ID and have details such as name, contact information, location, family size, income, and associated employee and admin.

4.Donation_Boy:

- Represents individuals responsible for collecting donations.
- Contains attributes like DID (Donation Boy ID), Status, Location, EID (Employee ID), and Admin_id.
- Donation boys are assigned to specific locations and have an associated employee and admin.

5.Donation:

- Represents individual donations made by donors.
- Contains attributes like DID (Donation ID), D_Type, and EID (Employee ID).
- Each donation is assigned a type and associated with an employee.

6.Type:

- Represents the types or categories of donations.
- Contains attributes like TID (Type ID) and T_Name (Type Name).
- Each donation type is assigned a unique ID and has a corresponding name.

7.Items:

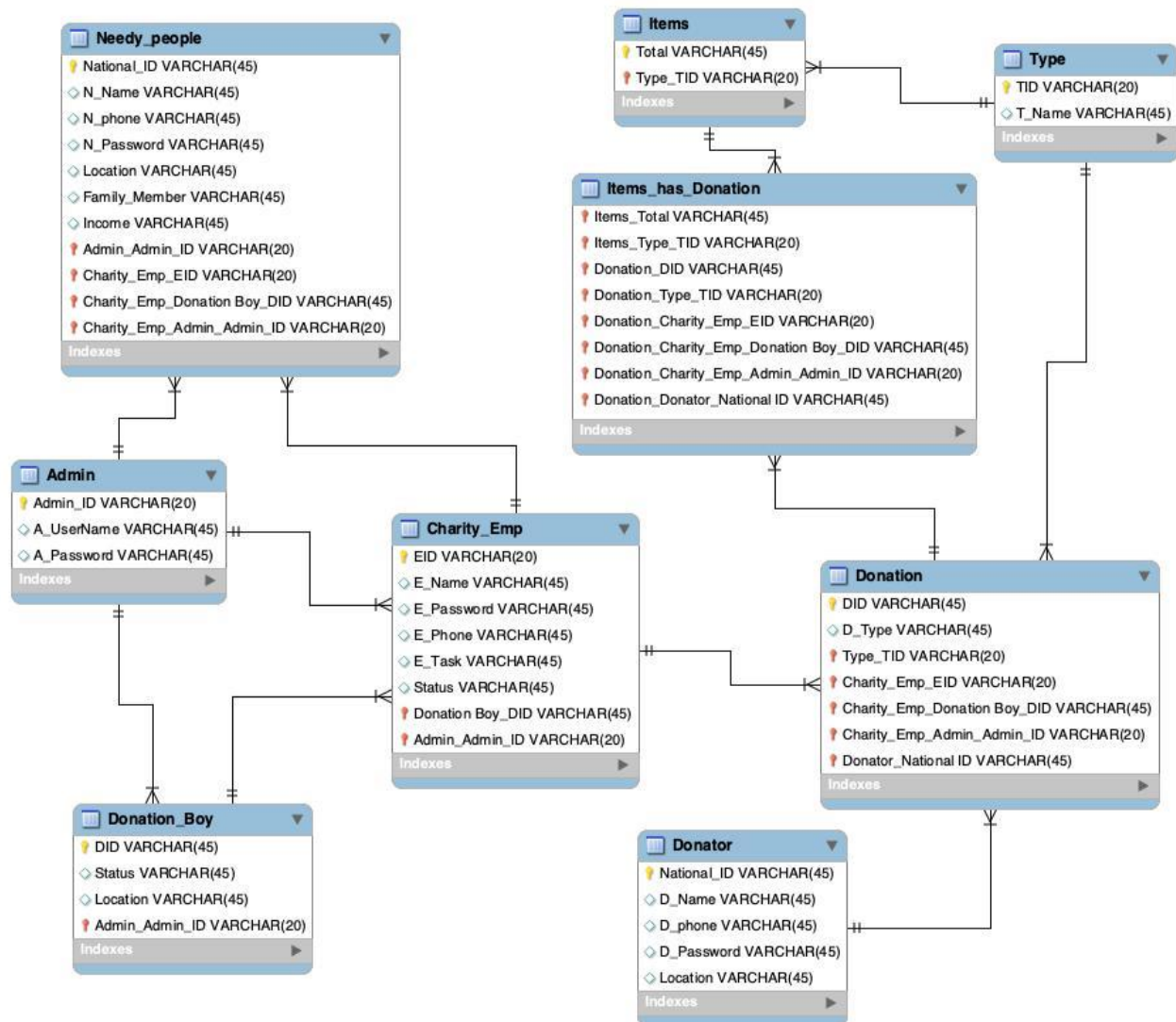
- Represents the specific items or quantities associated with a donation.
- Contains attributes like Total (quantity of items), TID (Type ID), and DID (Donation ID).
- Each item is associated with a specific donation and type.

8.Donator:

- Represents individuals who make donations.
- Contains attributes like National_id, D_Name, D_Phone, D_Password, Location, and DID (Donation ID).
- Donators are identified by their national ID and have details such as name, contact information, location, and the associated donation.

These entities and their attributes work together to manage the donation process within the database. The relationships between the entities allow for tracking donations, categorizing them by type, associating donors and recipients, and managing the employees and administrators involved in the process.

Data Flow Diagram -



Entities –

1. Charity_Emp
2. Admin
3. Needy_people
4. Donation_Boy
5. Donation
6. Donator
7. Type
8. Items

Primary Keys -

1. EID – Charity_Emp Table
2. Admin_ID – Admin Table
3. National_ID – Needy_people
4. DID – Donation_Boy Table
5. DID – Donation Table
6. National_ID – Donator Table
7. TID – Type Table
8. Total – Items Table

Foreign Keys -

1. foreign key (EID) references Charity_Emp(EID)
2. foreign key (Admin_ID) references Admin(Admin_ID)
3. foreign key (DID) references Donation(DID)
4. foreign key (TID) references Type(TID)

SQL Query to Create Tables –

```
create table Charity_Emp
(
    EID varchar(20) Not null,
    E_Name varchar(45),
    E_Password varchar(45),
    E_Phone varchar(45),
    E_Task varchar(45),
    Status varchar(45),
    primary key(EID)
);
create table Admin
(
    Admin_ID varchar(20) Not null,
    A_UserName varchar(45),
    A_Password varchar(45),
    EID varchar(20),
```

```

        primary key(Admin_ID),
        foreign key (EID) references Charity_Emp(EID)
    );
create table Needy_people
(
    National_ID varchar(45) Not null,
    N_Name varchar(45),
    N_Phone varchar(45),
    N_Password varchar(45),
    Location varchar(45),
    Family_Member varchar(45),
    Income varchar(45),
    EID varchar(20),
    Admin_ID varchar(20),
    primary key(National_ID),
    foreign key (EID) references Charity_Emp(EID),
    foreign key (Admin_ID) references Admin(Admin_ID)
);
create table Donation_Boy
(
    DID varchar(45) Not null,
    Status varchar(45),
    Location varchar(45),
    EID varchar(20),
    Admin_ID varchar(20),
    primary key(DID),
    foreign key (EID) references Charity_Emp(EID),
    foreign key (Admin_ID) references Admin(Admin_ID)
);
create table Donation
(
    DID varchar(45) Not null,
    D_Type varchar(45),
    EID varchar(20),
    primary key(DID),
    foreign key (EID) references Charity_Emp(EID)
);
create table Donator
(
    National_ID varchar(45) Not null,
    D_Name varchar(45),

```

```

        D_phone varchar(45),
        D_Password varchar(45),
        Location varchar(45),
        DID varchar(45),
        primary key (National_ID),
        foreign key (DID) references Donation(DID)
);
create table Type
(
    TID varchar(20) Not null,
    T_Name varchar(45),
    DID varchar(45),
    primary key (TID),
    foreign key (DID) references Donation(DID)
);
create table Items
(
    Total varchar(45) Not null,
    DID varchar(45),
    TID varchar(20),
    primary key (Total),
    foreign key (DID) references Donation(DID),
    foreign key (TID) references Type(TID)
);

```

Inserting the values in the Table -

```

insert into Charity_Emp values
('ce1' , 'John' , 'john123' , '1234567890' , 'Donation Collection' , 'Active'),
('ce2' , 'Emily' , 'emily456' , '9876543210' , 'Donor Relations' , 'Active'),
('ce3' , 'David' , 'david789' , '5555434440' , 'Donation Distribution' , 'Active'),
('ce4' , 'Sara' , 'sarapass' , '9823467340' , 'Volunteer Management' , 'Inctive'),
('ce5' , 'Michael' , 'michael123' , '1112223333' , 'Event Coordination' , 'Active'),
('ce6' , 'Jessica' , 'jessica789' , '4445556666' , 'Fundraising' , 'Active'),
('ce7' , 'Cristopher' , 'crispass' , '9999823476' , 'Marketing and Communications' , 'Active'),
('ce8' , 'Leo' , 'leo357' , '7538904234' , 'Social Media Management' , 'Active'),
('ce9' , 'Olivia' , 'olivia456' , '7778099093' , 'Grant Writing' , 'Active'),
('ce10' , 'Tokyo' , 'tokyo135' , '8095623489' , 'Volunteer Coordination' , 'Active');

```

insert into Admin values

```
('a1','adm1','passadm1','ce1'),
('a2','adm2','passadm2','ce2'),
('a3','adm3','passadm3','ce3'),
('a4','adm4','passadm4','ce4'),
('a5','adm5','passadm5','ce5'),
('a6','adm6','passadm6','ce6'),
('a7','adm7','passadm7','ce7'),
('a8','adm8','passadm8','ce8'),
('a9','adm9','passadm9','ce9'),
('a10','adm10','passadm10','ce10');
```

insert into Needy_people values

```
('n1','Jack','1234876591','jack123','City A','4','1200','ce1','a1'),
('n2','Anna','9871326450','anna967','City B','2','800','ce2','a2'),
('n3','Danny','8952347612','danny579','City C','3','1500','ce3','a3'),
('n4','Sana','8238594672','sana777','City A','1','600','ce4','a4'),
('n5','Micky','9923658740','passmicky','City B','5','800','ce5','a5'),
('n6','Jenny','9835784621','jenny459','City C','2','1000','ce6','a6'),
('n7','Denver','7021334587','den795','City A','4','1400','ce7','a7'),
('n8','Berlin','9821653490','bern647','City B','3','1200','ce8','a8'),
('n9','Arturo','9734985123','arturo987','City C','2','900','ce9','a9'),
('n10','Maria','5553279836','passm555','City A','6','2000','ce10','a10');
```

insert into Donation_Boy values

```
('db1','Active','City A','ce1','a1'),
('db2','Active','City B','ce2','a2'),
('db3','Active','City C','ce3','a3'),
('db4','Active','City A','ce4','a4'),
('db5','Active','City B','ce5','a5'),
('db6','Active','City C','ce6','a6'),
('db7','Active','City A','ce7','a7'),
('db8','Active','City B','ce8','a8'),
('db9','Active','City C','ce9','a9'),
('db10','Active','City A','ce10','a10');
```

insert into Donation values

```
('d1','Money','ce1'),
('d2','Food','ce2'),
('d3','Clothing','ce3'),
('d4','Household Items','ce4'),
('d5','Medical Supplies','ce5'),
('d6','Toys','ce6'),
('d7','Books','ce7'),
('d8','Electronics','ce8'),
('d9','Furniture','ce9'),
('d10','School Supplies','ce10');
```


insert into Donator values

```
('n11', 'Scarlett', '9127432492', 'scar3749', 'City A', 'd1'),  
( 'n12', 'Dakota', '9128457842', 'dac3839', 'City B', 'd2'),  
( 'n13', 'Jessica', '9059437580', 'jessi438', 'City C', 'd3'),  
( 'n14', 'Angelina', '8329482303', 'angel4893', 'City A', 'd4'),  
( 'n15', 'Alena', '8374823485', 'alen3498', 'City B', 'd5'),  
( 'n16', 'Sophia', '9643293289', 'sophie8954', 'City C', 'd6'),  
( 'n17', 'Alexis', '9778654567', 'alex5847', 'City A', 'd7'),  
( 'n18', 'David', '7999345843', 'david756', 'City B', 'd8'),  
( 'n19', 'Sara', '7543897580', 'sara6327', 'City C', 'd9'),  
( 'n20', 'Sana', '6748357483', 'sana8438', 'City A', 'd10');
```

insert into Type values

```
('t1', 'Monetary Donation', 'd1'),  
( 't2', 'Food Donation', 'd2'),  
( 't3', 'Clothing Donation', 'd3'),  
( 't4', 'Household Items Donation', 'd4'),  
( 't5', 'Medical Supplies Donation', 'd5'),  
( 't6', 'Toy Donation', 'd6'),  
( 't7', 'Book Donation', 'd7'),  
( 't8', 'Electronics Donation', 'd8'),  
( 't9', 'Furniture Donation', 'd9'),  
( 't10', 'School Supplies Donation', 'd10');
```

insert into Items values

```
('50', 'd1', 't1'),  
( '100', 'd2', 't2'),  
( '75', 'd3', 't3'),  
( '30', 'd4', 't4'),  
( '80', 'd5', 't5'),  
( '20', 'd6', 't6'),  
( '40', 'd7', 't7'),  
( '15', 'd8', 't8'),  
( '60', 'd9', 't9'),  
( '10', 'd10', 't10');
```

Implementing queries on the Database –

Select Statement -

- `select * from Donator where Location ='City A';`

```

166
167 • select * from Donator where Location = 'City A';|
168 • select * from Needy_people where Location='City B' and Income='800';
169 • select * from Needy_people where Location = 'City B' or Family_Member='3';
170 • delete from Charity_Emp where Status = 'Inactive';
171
172 • SET SQL_SAFE_UPDATES=0;
173 • update Items set Total = '90' where DID = 'd9';
174 • alter table Items add total_variety varchar(45);
175 • delete from Type:

```

Result Grid

National_ID	D_Name	D_phone	D_Password	Location	DID
n11	Scarlett	9127432492	scar3749	City A	d1
n14	Angelina	8329482303	angel4893	City A	d4
n17	Alexis	9778654567	alex5847	City A	d7
n20	Sana	6748357483	sana8438	City A	d10
NULL	NULL	NULL	NULL	NULL	NULL

- `select * from Needy_people where Location='City B' and Income='800';`

```
166
167 • select * from Donator where Location = 'City A';
168 • select * from Needy_people where Location='City B' and Income='800';|
169 • select * from Needy_people where Location = 'City B' or Family_Member='3';
170 • delete from Charity_Emp where Status = 'Inactive';
171
172 • SET SQL_SAFE_UPDATES=0;
173 • update Items set Total = '90' where DID = 'd9';
174 • alter table Items add total_variety varchar(45);
175 • delete from Type;
```

[illegible]

- select * from Needy_people where Location = 'City B' or Family_Member='3';

```

166
167 • select * from Donator where Location = 'City A';
168 • select * from Needy_people where Location='City B' and Income='800';
169 • select * from Needy_people where Location = 'City B' or Family_Member='3';
170 • delete from Charity_Emp where Status = 'Inactive';
171
172 • SET SQL_SAFE_UPDATES=0;
173 • update Items set Total = '90' where DID = 'd9';
174 • alter table Items add total_variety varchar(45);
175 • delete from Type;

```

100% 75:169

Result Grid Filter Rows: Search Edit: Export/Import:

	National_ID	N_Name	N_Phone	N_Password	Location	Family_Member	Income	EID	Admin_ID
▶	n2	Anna	9871326450	anna967	City B	2	800	ce2	a2
	n3	Danny	8952347612	danny579	City C	3	1500	ce3	a3
	n5	Micky	9923658740	passmicky	City B	5	800	ce5	a5
	n8	Berlin	9821653490	bern647	City B	3	1200	ce8	a8
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- delete from Charity_Emp where Status = 'Inactive';
- delete from Type;
- SET SQL_SAFE_UPDATES=0;
- update Items set Total = '90' where DID = 'd9';
- alter table Items add total_variety varchar(45);

Aggregate Function-

- select D_Type from Donation order by D_Type desc;

100% 50:177

Result Grid Filter Rows: Search Export:

D_Type
► Toys
▢ School Supplies
▢ Money
▢ Medical Supplies
▢ Household Items
▢ Furniture
▢ Food
▢ Electronics
▢ Clothing
▢ Books

- select count(*) N_Name, Location from Needy_people group by Location;

177 • select D_Type from Donation order by D_Type desc;

178 • select count(*) N_Name, Location from Needy_people group by Location;

179

180 • select Type.TID, T_Name, Items.Total, Items.TID

181 from Type Join Items ON Type.TID = Items.TID;

182

183 • select * from Donation inner join Type ON Donation.DID = Type.DID;

184 • select * from Charity_Emp right join Donation ON Charity_Emp.EID = Donation.EID;

185 • select * from Charity_Emp left join Admin ON Charity_Emp.EID = Admin.EID;

100% 70:178

Result Grid Filter Rows: Search Export:

N_Name	Location
► 4	City A
▢ 3	City B
▢ 3	City C

Table Joins -

- select Type.TID, T_Name, Items.Total, Items.TID
from Type Join Items ON Type.TID = Items.TID;

```

180 • select Type.TID, T_Name, Items.Total, Items.TID
181   from Type Join Items ON Type.TID = Items.TID;
182
183 • select * from Donation inner join Type ON Donation.DID = Type.DID;
184 • select * from Charity_Emp right join Donation ON Charity_Emp.EID = Donation.EID;
185 • select * from Charity_Emp left join Admin ON Charity_Emp.EID = Admin.EID;
186 • select * from Donation cross ioin Items ON Donation.DID = Items.DID:

```

100% 46:181

Result Grid Filter Rows: Search Export:

	TID	T_Name	Total	TID
▶ t1		Monetary Donation	50	t1
t10		School Supplies Donation	10	t10
t2		Food Donation	100	t2
t3		Clothing Donation	75	t3
t4		Household Items Donation	30	t4
t5		Medical Supplies Donation	80	t5
t6		Toy Donation	20	t6
t7		Book Donation	40	t7
t8		Electronics Donation	15	t8
t9		Furniture Donation	60	t9

- select * from Donation inner join Type ON Donation.DID = Type.DID;

```

182
183 • select * from Donation inner join Type ON Donation.DID = Type.DID;
184 • select * from Charity_Emp right join Donation ON Charity_Emp.EID = Donation.EID;
185 • select * from Charity_Emp left join Admin ON Charity_Emp.EID = Admin.EID;
186 • select * from Donation cross ioin Items ON Donation.DID = Items.DID:

```

100% 67:183

Result Grid Filter Rows: Search Export:

	DID	D_Type	EID	TID	T_Name	DID
▶ d1		Money	ce1	t1	Monetary Donation	d1
d10		School Supplies	ce10	t10	School Supplies Donation	d10
d2		Food	ce2	t2	Food Donation	d2
d3		Clothing	ce3	t3	Clothing Donation	d3
d4		Household Items	ce4	t4	Household Items Donation	d4
d5		Medical Supplies	ce5	t5	Medical Supplies Donation	d5
d6		Toys	ce6	t6	Toy Donation	d6
d7		Books	ce7	t7	Book Donation	d7
d8		Electronics	ce8	t8	Electronics Donation	d8
d9		Furniture	ce9	t9	Furniture Donation	d9

- [illegible]

- [illegible]

- select * from Donation cross join Items ON Donation.DID = Items.DID;

```

183 • select * from Donation inner join Type ON Donation.DID = Type.DID;
184 • select * from Charity_Emp right join Donation ON Charity_Emp.EID = Donation.EID;
185 • select * from Charity_Emp left join Admin ON Charity_Emp.EID = Admin.EID;
186 • select * from Donation cross join Items ON Donation.DID = Items.DID;

```

100% 69:186

Result Grid Filter Rows: Search Export:

	DID	D_Type	EID	Total	DID	TID
▶	d1	Money	ce1	50	d1	t1
	d10	School Supplies	ce10	10	d10	t10
	d2	Food	ce2	100	d2	t2
	d3	Clothing	ce3	75	d3	t3
	d4	Household Items	ce4	30	d4	t4
	d5	Medical Supplies	ce5	80	d5	t5
	d6	Toys	ce6	20	d6	t6
	d7	Books	ce7	40	d7	t7
	d8	Electronics	ce8	15	d8	t8
	d9	Furniture	ce9	60	d9	t9

- select * from Needy_people
Inner Join Charity_Emp ON Needy_people.EID = Charity_Emp.EID
Inner Join Admin ON Charity_Emp.EID = Admin.EID;

```

188 • select * from Needy_people
189 Inner Join Charity_Emp ON Needy_people.EID = Charity_Emp.EID
190 Inner Join Admin ON Charity_Emp.EID = Admin.EID;
191

```

100% 49:190

Result Grid Filter Rows: Search Export:

	National_ID	N_Name	N_Phone	N_Password	Location	Family_Member	Income	EID	Admin_ID	EID	E_Name	E_Password	E_Phone	E_Task	Status	Admin_ID	A_UserName
▶	n1	Jack	1234876591	jack123	City A	4	1200	ce1	a1	ce1	John	john123	1234567890	Donation Collection	Active	a1	adm1
	n10	Maria	5553279836	passm555	City A	6	2000	ce10	a10	ce10	Tokyo	tokyo135	8095623489	Volunteer Coordination	Active	a10	adm10
	n2	Anna	9871326450	anna967	City B	2	800	ce2	a2	ce2	Emily	emily456	9876543210	Donor Relations	Active	a2	adm2
	n3	Danny	8952347612	danny579	City C	3	1500	ce3	a3	ce3	David	david789	5555434440	Donation Distribution	Active	a3	adm3
	n4	Sana	8238594672	sana777	City A	1	600	ce4	a4	ce4	Sara	sarapass	9823467340	Volunteer Management	Inctive	a4	adm4
	n5	Micky	9923658740	passmicky	City B	5	800	ce5	a5	ce5	Michael	michael123	1112223333	Event Coordination	Active	a5	adm5
	n6	Jenny	9835784621	jenny459	City C	2	1000	ce6	a6	ce6	Jessica	jessica789	4445556666	Fundraising	Active	a6	adm6
	n7	Denver	7021334587	den795	City A	4	1400	ce7	a7	ce7	Cristopher	crisspass	9999823476	Marketing and Communications	Active	a7	adm7
	n8	Berlin	9821653490	bern647	City B	3	1200	ce8	a8	ce8	Leo	leo357	7538904234	Social Media Management	Active	a8	adm8
	n9	Arturo	9734985123	arturo987	City C	2	900	ce9	a9	ce9	Olivia	olivia456	7778099093	Grant Writing	Active	a9	adm9

- Select Charity_Emp.EID, Admin.Admin_ID, Needy_people.National_ID, Donation_Boy.DID, Donation.DID, Donator.National_ID, Type.TID, Items.Total
from Charity_Emp
Join Needy_people ON Charity_Emp.EID = Needy_people.EID
Join Admin ON Charity_Emp.EID = Admin.EID
Join Donation_Boy ON Charity_Emp.EID = Donation_Boy.EID
Join Donation ON Charity_Emp.EID = Donation.EID
Join Donator ON Donation.DID = Donator.DID
Join Type ON Donation.DID = Type.DID
Join Items ON Donation.DID = Items.DID;

```

192 • select Charity_Emp.EID,Admin.Admin_ID,Needy_people.National_ID,Donation_Boy.DID,Donation.DID,Donator.National_ID,Type.TID,Items.Total
193 from Charity_Emp
194 Join Needy_people ON Charity_Emp.EID = Needy_people.EID
195 Join Admin ON Charity_Emp.EID = Admin.EID
196 Join Donation_Boy ON Charity_Emp.EID = Donation_Boy.EID
197 Join Donation ON Charity_Emp.EID = Donation.EID
198 Join Donator ON Donation.DID = Donator.DID
199 Join Type ON Donation.DID = Type.DID
200 Join Items ON Donation.DID = Items.DID;

```

100%

40:200

Result Grid

Filter Rows:

Export:

EID	Admin_ID	National_ID	DID	DID	National_ID	TID	Total
ce1	a1	n1	db1	d1	n11	t1	50
ce10	a10	n10	db10	d10	n20	t10	10
ce2	a2	n2	db2	d2	n12	t2	100
ce3	a3	n3	db3	d3	n13	t3	75
ce4	a4	n4	db4	d4	n14	t4	30
ce5	a5	n5	db5	d5	n15	t5	80
ce6	a6	n6	db6	d6	n16	t6	20
ce7	a7	n7	db7	d7	n17	t7	40
ce8	a8	n8	db8	d8	n18	t8	15
ce9	a9	n9	db9	d9	n19	t9	60