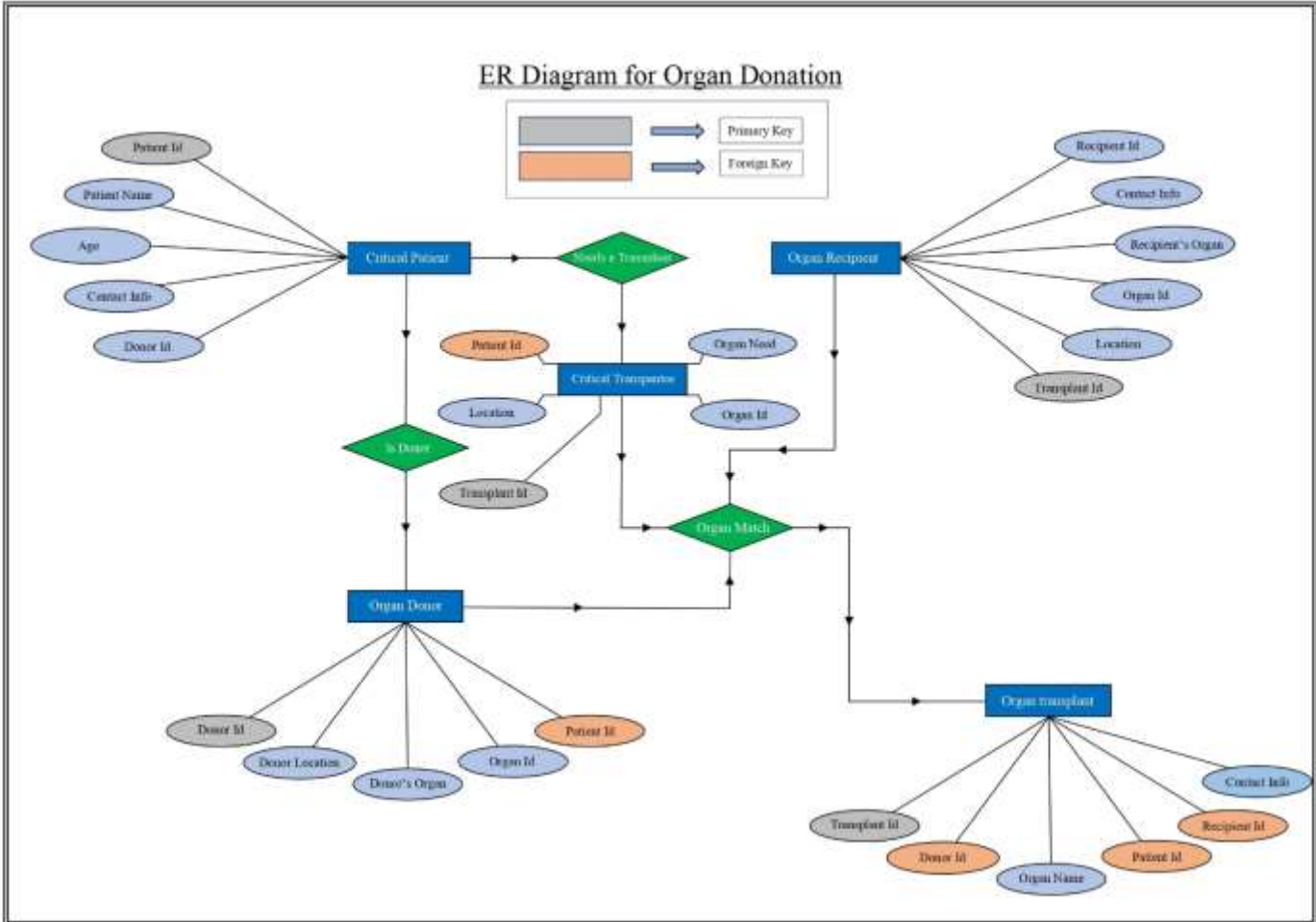


# Organ Donation

- 1. This project represents the process of organ donation for both critically ill patients and people who are suffering from organ degradation.
- 2. In this project, we have 5 tables,
  - 1) Patients
  - 2) Critical Patients
  - 3) Organ Donor
  - 4) Organ Recipient
  - 5) Organ Transplant



```
MariaDB [casestudy]> desc pr1_patients;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| patient_id | int(11) | NO | PRI | NULL |  |
| patient_name | varchar(20) | YES |  | NULL |  |
| age | int(11) | YES |  | NULL |  |
| contact_info | decimal(10,0) | YES |  | NULL |  |
| donor_id | int(11) | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.010 sec)
```

```
MariaDB [casestudy]> desc pr1_critical_patients;
```

Field	Type	Null	Key	Default	Extra
patient_id	int(11)	YES	MUL	NULL	
location	varchar(20)	YES		NULL	
organ_need	varchar(20)	YES		NULL	
organ_id	int(11)	YES		NULL	
transplant_id	int(11)	NO	PRI	NULL	

```
5 rows in set (0.010 sec)
```

```
MariaDB [casestudy]> desc pr1_organ_donor;
```

Field	Type	Null	Key	Default	Extra
patient_id	int(11)	YES	MUL	NULL	
donor_id	int(11)	NO	PRI	NULL	
location	varchar(20)	YES		NULL	
contact_info	decimal(10,0)	YES		NULL	
organ_name	varchar(20)	YES		NULL	
organ_id	int(11)	YES		NULL	

```
6 rows in set (0.008 sec)
```

```
MariaDB [casestudy]> desc pr1_organ_recipient;
```

Field	Type	Null	Key	Default	Extra
recipient_id	int(11)	YES		NULL	
location	varchar(20)	YES		NULL	
contact_info	decimal(10,0)	YES		NULL	
recipients_organ	varchar(20)	YES		NULL	
organ_id	int(11)	YES		NULL	
transplant_id	int(11)	NO	PRI	NULL	

```
6 rows in set (0.012 sec)
```

```
MariaDB [casestudy]> desc pr1_organ_transplant;
```

Field	Type	Null	Key	Default	Extra
transplant_id	int(11)	NO	PRI	NULL	
donor_id	int(11)	YES	MUL	NULL	
organ_name	varchar(20)	YES		NULL	
patient_id	int(11)	YES	MUL	NULL	
recipient_id	int(11)	YES	MUL	NULL	
contact_info	varchar(20)	YES		NULL	

```
6 rows in set (0.012 sec)
```



1) Patients:

- 1. In this table, we have collected some patients who are terminally ill.
- 2. The table contains 5 columns namely, patient id, patients name, age, and contact information also to check if they are a donor or not, we have donor id as well.

MariaDB [casestudy]> desc pr1\_patients;

Field	Type	Null	Key	Default	Extra
patient_id	int(11)	NO	PRI	NULL	
patient_name	varchar(20)	YES		NULL	
age	int(11)	YES		NULL	
contact_info	decimal(10,0)	YES		NULL	
donor_id	int(11)	YES		NULL	

5 rows in set (0.009 sec)

MariaDB [casestudy]> select \* from pr1\_patients;

patient_id	patient_name	age	contact_info	donor_id
1	Anamica	26	9856545896	NULL
2	Vartika	30	9556486445	1
3	Ankit	34	9856956424	2
4	Anupama	25	9856545345	3
5	Rishabh	29	9854576437	4
6	Ramesh	30	9556485454	5
7	kevin	45	9865497856	6
8	Ramakrishna	58	8854697856	NULL
9	Allen	39	8888497856	7
10	Varun	43	8888687679	8
11	Arav	45	9856458523	9
12	Gaurav	30	9875456521	10
13	Virohi	29	9875984856	11
14	Pravin	23	9858642133	12
15	Jeevan	18	9864889134	13
16	Kirthi	33	9864561245	14
17	Vrishabh	27	9847562125	15
18	Chetan	31	8888634545	NULL
19	Naresh	35	9864651231	16
20	Pratik	20	8965634545	17
21	Shravan	50	9864645621	NULL
22	Rakesh	55	9858789456	18
23	Vartak	26	8888654216	19
24	varsha	36	7845898642	20
25	rajani	32	8845898642	NULL
26	gaurav	29	9856898642	21
27	Arohi	42	7866454644	NULL
28	Vishal	34	8995645315	22
29	Swapnil	36	9785345786	23
30	Akash	25	8783458647	NULL
31	Bharat	56	8785282318	24
32	Rakesh	22	7954564213	25
33	Ravi	32	8852564213	26
34	Sushil	36	8888564212	27
35	Hemant	33	9888564456	28
36	Tushar	24	8888651248	29
37	Ashoka	24	9823554915	30

37 rows in set (0.000 sec)

2) Critical Patients:

- 1. These are the patients who are terminally ill and are in the immediate need for an organ.
- 2. This table contains location, contact info, organ need, organ id of the patient.
- 3. transplant id is the number on the waiting list for organ transplant.

```
MariaDB [casestudy]> desc pr1_critical_patients;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| patient_id | int(11)    | YES  | MUL | NULL     |       |
| location    | varchar(20)| YES  |     | NULL     |       |
| organ_need  | varchar(20)| YES  |     | NULL     |       |
| organ_id    | int(11)    | YES  |     | NULL     |       |
| transplant_id | int(11)   | NO   | PRI | NULL     |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.014 sec)

MariaDB [casestudy]> select * from pr1_critical_patients;
+-----+-----+-----+-----+-----+
| patient_id | location  | organ_need | organ_id | transplant_id |
+-----+-----+-----+-----+-----+
| 1          | jaipur   | heart valves | 1010     | 1             |
| 8          | mumbai   | pancrease   | 1004     | 2             |
| 18         | pune     | skin tissue | 1009     | 3             |
| 21         | ahemdabad | liver       | 1003     | 4             |
| 25         | nashik   | heart       | 1019     | 5             |
| 27         | hyderabad | bone marrow | 1011     | 6             |
| 30         | thane    | kidneys     | 1005     | 7             |
+-----+-----+-----+-----+-----+
7 rows in set (0.000 sec)
```



3) Organ Recipient:

MariaDB [casestudy]> desc pr1\_organ\_recipient;

Field	Type	Null	Key	Default	Extra
recipient_id	int(11)	YES		NULL	
location	varchar(20)	YES		NULL	
contact_info	decimal(10,0)	YES		NULL	
recipients_organ	varchar(20)	YES		NULL	
organ_id	int(11)	YES		NULL	
transplant_id	int(11)	NO	PRI	NULL	

6 rows in set (0.009 sec)

MariaDB [casestudy]> select \* from pr1\_organ\_recipient;

recipient_id	location	contact_info	recipients_organ	organ_id	transplant_id
1	assam	9856956489	veins	1013	8
2	delhi	9856545356	skin tissue	1009	9
3	ahemadabad	9854576423	brain	1015	10
4	mumbai	9556485498	tendons	1014	11
5	mumbai	9865497885	ligaments	1012	12
6	nagpur	8854697845	intestines	1006	13
7	jaipur	8888497821	bones	1007	14
8	hyderabad	8888687625	liver	1003	15
9	panaji	9856458545	throat	1020	16
10	mumbai	9875456589	stomoch	1017	17
11	mumbai	9875984856	lungs	1002	18
12	banglore	9858642133	corneas	1008	19
13	hyderabad	9864889134	heart	1019	20
14	thane	9864561245	skin tissue	1009	21
15	mumbai	9847562125	heart	1019	22
16	nashik	8888634545	corneas	1008	23
17	mathura	9864651231	bone marrow	1011	24
18	surat	9856545885	kidneys	1005	25
19	ratnagiri	9556486465	throat	1020	26
20	mumbai	9856956488	kidneys	1005	27
21	mumbai	9856545357	pancreas	1004	28
22	banglore	9854576424	tendons	1014	29
23	hyderabad	9556485499	bladder	1001	30
24	thane	9865497886	ligaments	1012	31
25	mumbai	8854697846	tooth	1016	32
26	mumbai	8888497822	stomoch	1017	33
27	banglore	8888687626	veins	1013	34
28	hyderabad	9856458546	tooth	1016	35
29	thane	9875456580	intestines	1006	36
30	mumbai	9875984857	liver	1003	37
31	mumbai	9858642134	muscle	1018	38
32	banglore	9864889135	heart valves	1010	39
33	hyderabad	9864561246	bones	1007	40
34	thane	9847562126	brain	1015	41

34 rows in set (0.096 sec)|

4) Organ Donor:

- 1. This table contains the values of critical patients and organ donor 1.
- 2. This table connects organ donor and critical patients through organ id.
- 3. It satisfies the condition needed for the organ transplant.

```
MariaDB [casestudy]> desc pr1_organ_donor;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| patient_id | int(11)       | YES  | MUL | NULL    |       |
| donor_id   | int(11)       | NO   | PRI | NULL    |       |
| location   | varchar(20)   | YES  |     | NULL    |       |
| contact_info | decimal(10,0) | YES  |     | NULL    |       |
| organ_name | varchar(20)   | YES  |     | NULL    |       |
| organ_id   | int(11)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.013 sec)
```

```
MariaDB [casestudy]> select * from pr1_organ_donor;
+-----+-----+-----+-----+-----+-----+
| patient_id | donor_id | location | contact_info | organ_name | organ_id |
+-----+-----+-----+-----+-----+-----+
| 2          | 1        | hyderabad | 9556486445 | tendons    | 1014     |
| 3          | 2        | mumbai   | 9856956424 | lungs      | 1002     |
| 4          | 3        | thane    | 9856545345 | liver      | 1003     |
| 5          | 4        | mumbai   | 9854576437 | pancreas   | 1004     |
| 6          | 5        | nashik   | 9556485454 | bones      | 1007     |
| 7          | 6        | jaipur   | 9865497856 | brain      | 1015     |
| 9          | 7        | mumbai   | 8888497856 | ligaments  | 1012     |
| 10         | 8        | pune     | 8888687679 | tendons    | 1014     |
| 11         | 9        | kolhapur | 9856458523 | skin tissue | 1009     |
| 12         | 10       | nashik   | 9875456521 | heart valves | 1010     |
| 13         | 11       | pune     | 9875984856 | kidneys    | 1005     |
| 14         | 12       | mumbai   | 9858642133 | veins      | 1013     |
| 15         | 13       | kolhapur | 9864889134 | bladder    | 1001     |
| 16         | 14       | mumbai   | 9864561245 | pancreas   | 1004     |
| 17         | 15       | hyderabad | 9847562125 | liver      | 1003     |
| 19         | 16       | mathura  | 9864651231 | bone marrow | 1011     |
| 20         | 17       | thane    | 8965634545 | throat     | 1020     |
| 22         | 18       | pune     | 9858789456 | heart      | 1019     |
| 23         | 19       | kolhapur | 8888654216 | kidneys    | 1005     |
| 24         | 20       | mumbai   | 7845898642 | intestines | 1006     |
| 26         | 21       | ratnagiri | 9856898642 | tooth      | 1016     |
| 28         | 22       | panaji   | 8995645315 | stomoch    | 1017     |
| 29         | 23       | ahemdabad | 9785345786 | bones      | 1007     |
| 31         | 24       | assam    | 8785282318 | skin tissue | 1009     |
| 32         | 25       | jaipur   | 7954564213 | lungs      | 1002     |
| 33         | 26       | mumbai   | 8852564213 | intestines | 1006     |
| 34         | 27       | ahemdabad | 8888564212 | bladder    | 1001     |
| 35         | 28       | surat    | 9888564456 | bone marrow | 1011     |
| 36         | 29       | mumbai   | 8888651248 | corneas    | 1008     |
| 37         | 30       | ahemdabad | 9823554915 | muscle     | 1018     |
+-----+-----+-----+-----+-----+-----+
30 rows in set (0.000 sec)|
```



5) Organ Transplant:

```
MariaDB [casestudy]> desc pr1_organ_transplant2;
```

Field	Type	Null	Key	Default	Extra
transplant_id	int(11)	NO	PRI	NULL	
donor_id	int(11)	YES	MUL	NULL	
organ_name	varchar(20)	YES		NULL	
patient_id	int(11)	YES	MUL	NULL	
recipient_id	int(11)	YES	MUL	NULL	
contact_info	decimal(10,0)	YES		NULL	

6 rows in set (0.010 sec)

```
MariaDB [casestudy]> select * from pr1_organ_transplant2;
```

transplant_id	donor_id	organ_name	patient_id	recipient_id	contact_info
1	10	heart valves	1	NULL	9856545896
2	4	pancreas	8	NULL	8854697856
3	9	skin tissue	18	NULL	8888634545
4	3	liver	21	NULL	9864645621
5	18	heart	25	NULL	8845898642
6	16	bone marrow	27	NULL	7866454644
7	11	kidneys	30	NULL	8783458647
8	12	veins	NULL	1	9856956489
9	24	skin tissue	NULL	2	9856545356
10	6	brain	NULL	3	9854576423
11	1	tendons	NULL	4	9556485498
12	7	ligaments	NULL	5	9865497885
13	20	intestines	NULL	6	8854697845
14	5	bones	NULL	7	8888497821
15	15	liver	NULL	8	8888687625
16	17	throat	NULL	9	9856458545
17	22	stomoch	NULL	10	9875456589
18	2	lungs	NULL	11	9875984856
19	29	corneas	NULL	12	9858642133
24	28	bone marrow	NULL	17	9864651231
25	19	kidneys	NULL	18	9856545885
28	14	pancreas	NULL	21	9856545357
30	13	bladder	NULL	23	9556485499
32	21	tooth	NULL	25	8854697846
38	30	muscle	NULL	31	9858642134

25 rows in set (0.000 sec)

1. Patients who aren't a donor.

```
MariaDB [casestudy]> select patient_name from pr1_patients where contact_info not in (select contact_info from pr1_organ_donor);
+-----+
| patient_name |
+-----+
| Anamica      |
| Ramakrishna  |
| Chetan       |
| Shravan      |
| rajani       |
| Arohi        |
| Akash        |
+-----+
7 rows in set (0.001 sec)
```

2. Updating contact info using organ transplant table.

```
MariaDB [casestudy]> update pr1_organ_transplant1 inner join pr1_critical_patients1 on pr1_organ_transplant1.patient_id = pr1_critical_patients1.patient_id set pr1_organ_transplant1.contact_info = pr1_critical_patients1.contact_info;
Query OK, 7 rows affected (0.352 sec)
Rows matched: 7  Changed: 7  Warnings: 0

MariaDB [casestudy]> select * from pr1_organ_transplant1;
+-----+-----+-----+-----+-----+-----+
| transplant_id | donor_id | organ_name | patient_id | recipient_id | contact_info |
+-----+-----+-----+-----+-----+-----+
| 8             | 12       | veins      | NULL       | 1             | 9856956489   |
| 9             | 24       | skin tissue| NULL       | 2             | 9856545356   |
| 10            | 6         | brain      | NULL       | 3             | 9854576423   |
| 11            | 1         | tendons    | NULL       | 4             | 9556485498   |
| 12            | 7         | ligaments  | NULL       | 5             | 9865497885   |
| 13            | 20        | intestines | NULL       | 6             | 8854697845   |
| 14            | 5         | bones      | NULL       | 7             | 8888497821   |
| 15            | 15        | liver      | NULL       | 8             | 8888687625   |
| 16            | 17        | throat     | NULL       | 9             | 9856458545   |
| 17            | 22        | stomach    | NULL       | 10            | 9875456589   |
| 18            | 2         | lungs      | NULL       | 11            | 9875984856   |
| 19            | 29        | corneas    | NULL       | 12            | 9858642133   |
| 20            | NULL     | NULL       | NULL       | 13            | 9864883454   |
| 21            | NULL     | NULL       | NULL       | 14            | 9864561245   |
| 22            | NULL     | NULL       | NULL       | 15            | 9847562125   |
| 23            | NULL     | NULL       | NULL       | 16            | 8888634545   |
| 24            | 28        | bone marrow| NULL       | 17            | 9864651231   |
| 25            | 19        | kidneys    | NULL       | 18            | 9856545885   |
| 26            | NULL     | NULL       | NULL       | 19            | 9556486465   |
| 27            | NULL     | NULL       | NULL       | 20            | 9856956488   |
| 28            | 14        | pancreas   | NULL       | 21            | 9856545357   |
| 29            | NULL     | NULL       | NULL       | 22            | 9854676424   |
| 30            | 13        | bladder    | NULL       | 23            | 9556485499   |
| 31            | NULL     | NULL       | NULL       | 24            | 9865497886   |
| 32            | 21        | tooth      | NULL       | 25            | 8854697846   |
| 33            | NULL     | NULL       | NULL       | 26            | 8888497822   |
| 34            | NULL     | NULL       | NULL       | 27            | 8888687626   |
| 35            | NULL     | NULL       | NULL       | 28            | 9856458546   |
| 36            | NULL     | NULL       | NULL       | 29            | 9875456580   |
| 37            | NULL     | NULL       | NULL       | 30            | 9875984857   |
| 38            | 30        | muscle     | NULL       | 31            | 9858642134   |
| 39            | NULL     | NULL       | NULL       | 32            | 9864889135   |
| 40            | NULL     | NULL       | NULL       | 33            | 9864561246   |
| 41            | NULL     | NULL       | NULL       | 34            | 9847562126   |
| 1             | 10        | heart valves| 1          | NULL          | 9856545896   |
| 2             | 4         | pancreas   | 8          | NULL          | 8854697856   |
| 3             | 9         | skin tissue| 18         | NULL          | 8888634545   |
| 4             | 3         | liver      | 21         | NULL          | 9864645621   |
| 5             | 18        | heart      | 25         | NULL          | 8854598642   |
| 6             | 16        | bone marrow| 27         | NULL          | 7866454644   |
| 7             | 11        | kidneys    | 30         | NULL          | 8783458647   |
+-----+-----+-----+-----+-----+-----+
41 rows in set (0.000 sec)
```

3. Name of the donors who didn't donate any organs.

```
MariaDB [casestudy]> select patient_name from pr1_patients where donor_id not in (select donor_id from pr1_organ_transplant2);
+-----+
| patient_name |
+-----+
| Varun        |
| Swapnil      |
| Rakesh       |
| Ravi         |
| Sushil       |
+-----+
5 rows in set (0.001 sec)
```

4. Information of recipients who received organ transplant.

```
MariaDB [casestudy]> select contact_info, location from pr1_organ_recipient where contact_info in (select contact_info from pr1_organ_transplant1);
+-----+-----+
| contact_info | location |
+-----+-----+
| 9856956489   | assam   |
| 9856545356   | delhi   |
| 9854576423   | ahemdabad |
| 9556485498   | mumbai  |
| 9865497885   | mumbai  |
| 8854697845   | nagpur   |
| 8888497821   | jaipur   |
| 8888687625   | hyderabad |
| 9856458545   | panaji   |
| 9875456589   | mumbai  |
| 9875984856   | mumbai  |
| 9858642133   | banglore |
| 8888634545   | nashik   |
| 9864651231   | mathura  |
| 9856545885   | surat    |
| 9856545357   | mumbai  |
| 9556485499   | hyderabad |
| 8854697846   | mumbai  |
| 9858642134   | mumbai  |
+-----+-----+
19 rows in set (0.000 sec)
```



Joins:

1. Adding organ name column into the organ transplant table.

```
MariaDB [casestudy]> create table pri_organ_transplant0 as select pri_organ_transplant.transplant_id, pri_organ_transplant.donor_id, pri_organ_transplant.patient_id, pri_organ_transplant.recipient_id from pri_organ_transplant left join pri_organ_donor on pri_organ_transplant.donor_id = pri_organ_donor.donor_id;
Query OK, 41 rows affected (0.573 sec)
Records: 41 Duplicates: 0 Warnings: 0

MariaDB [casestudy]> select * from pri_organ_transplant0;
```

transplant_id	donor_id	organ_name	patient_id	recipient_id
1	10	heart valves	1	NULL
2	4	pancreas	8	NULL
3	9	skin tissue	18	NULL
4	3	liver	21	NULL
5	18	heart	25	NULL
6	16	bone marrow	27	NULL
7	11	kidneys	30	NULL
8	12	veins	NULL	1
9	24	skin tissue	NULL	2
10	6	brain	NULL	3
11	1	tendons	NULL	4
12	7	ligaments	NULL	5
13	20	intestines	NULL	6
14	5	bones	NULL	7
15	15	liver	NULL	8
16	17	throat	NULL	9
17	22	stomach	NULL	10
18	2	lungs	NULL	11
19	29	corneas	NULL	12
20	NULL	NULL	NULL	13
21	NULL	NULL	NULL	14
22	NULL	NULL	NULL	15
23	NULL	NULL	NULL	16
24	28	bone marrow	NULL	17
25	19	kidneys	NULL	18
26	NULL	NULL	NULL	19
27	NULL	NULL	NULL	20
28	14	pancreas	NULL	21
29	NULL	NULL	NULL	22
30	13	bladder	NULL	23
31	NULL	NULL	NULL	24
32	21	tooth	NULL	25
33	NULL	NULL	NULL	26
34	NULL	NULL	NULL	27
35	NULL	NULL	NULL	28
36	NULL	NULL	NULL	29
37	NULL	NULL	NULL	30
38	30	muscle	NULL	31
39	NULL	NULL	NULL	32
40	NULL	NULL	NULL	33
41	NULL	NULL	NULL	34

41 rows in set (0.000 sec)

2. Joining organ transplant and organ recipient table to get contact info of the recipients.

```
MariaDB [casestudy]> select pri_organ_transplant0.*, pri_organ_recipient.contact_info from pri_organ_transplant0 left join pri_organ_recipient on pri_organ_transplant0.recipient_id = pri_organ_recipient.recipient_id;
```

transplant_id	donor_id	organ_name	patient_id	recipient_id	contact_info
8	12	veins	NULL	1	9856956489
9	24	skin tissue	NULL	2	9856545356
10	6	brain	NULL	3	9854576423
11	1	tendons	NULL	4	9556485498
12	7	ligaments	NULL	5	9865497885
13	20	intestines	NULL	6	8854697845
14	5	bones	NULL	7	8888497821
15	15	liver	NULL	8	8888687625
16	17	throat	NULL	9	9856458545
17	22	stomach	NULL	10	9875456589
18	2	lungs	NULL	11	9875984856
19	29	corneas	NULL	12	9858642133
20	NULL	NULL	NULL	13	9864889134
21	NULL	NULL	NULL	14	9864561245
22	NULL	NULL	NULL	15	9847562125
23	NULL	NULL	NULL	16	8888634545
24	28	bone marrow	NULL	17	9864631231
25	19	kidneys	NULL	18	9856545685
26	NULL	NULL	NULL	19	9556486465
27	NULL	NULL	NULL	20	9856956488
28	14	pancreas	NULL	21	9856545357
29	NULL	NULL	NULL	22	9854576424
30	13	bladder	NULL	23	9556485499
31	NULL	NULL	NULL	24	9865497886
32	21	tooth	NULL	25	8854697846
33	NULL	NULL	NULL	26	8888497822
34	NULL	NULL	NULL	27	8888687626
35	NULL	NULL	NULL	28	9856458546
36	NULL	NULL	NULL	29	9875456580
37	NULL	NULL	NULL	30	9875984857
38	30	muscle	NULL	31	9858642134
39	NULL	NULL	NULL	32	9864889135
40	NULL	NULL	NULL	33	9864561246
41	NULL	NULL	NULL	34	9847562126
1	10	heart valves	1	NULL	NULL
2	4	pancreas	8	NULL	NULL
3	9	skin tissue	18	NULL	NULL
4	3	liver	21	NULL	NULL
5	18	heart	25	NULL	NULL
6	16	bone marrow	27	NULL	NULL
7	11	kidneys	30	NULL	NULL

41 rows in set (0.001 sec)

3. Updating donor id in table using inner join.

```
MariaDB [casestudy]> update copy inner join otl on otl.transplant_id = copy.transplant_id set copy.donor_id = otl.donor_id;
Query OK, 18 rows affected (0.355 sec)
Rows matched: 18  Changed: 18  Warnings: 0

MariaDB [casestudy]> select * from copy;
```

transplant_id	donor_id	patient_id	recipient_id
1	10	1	NULL
2	4	8	NULL
3	9	18	NULL
4	3	21	NULL
5	18	25	NULL
6	16	27	NULL
7	11	30	NULL
8	12	NULL	1
9	24	NULL	2
10	6	NULL	3
11	1	NULL	4
12	7	NULL	5
13	20	NULL	6
14	5	NULL	7
15	15	NULL	8
16	17	NULL	9
17	22	NULL	10
18	2	NULL	11
19	29	NULL	12
20	NULL	NULL	13
21	NULL	NULL	14
22	NULL	NULL	15
23	NULL	NULL	16
24	28	NULL	17
25	19	NULL	18
26	NULL	NULL	19
27	NULL	NULL	20
28	14	NULL	21
29	NULL	NULL	22
30	13	NULL	23
31	NULL	NULL	24
32	21	NULL	25
33	NULL	NULL	26
34	NULL	NULL	27
35	NULL	NULL	28
36	NULL	NULL	29
37	NULL	NULL	30
38	30	NULL	31
39	NULL	NULL	32
40	NULL	NULL	33
41	NULL	NULL	34

41 rows in set (0.000 sec)

4. Getting all the information on critical patients by combining critical patients and organ transplant table.

```
MariaDB [casestudy]> select pri_critical_patients.*, pri_organ_transplant2.* from pri_critical_patients inner join pri_organ_transplant2 on pri_organ_transplant2.transplant_id = pri_critical_patients.transplant_id;
```

patient_id	location	organ_need	organ_id	transplant_id	transplant_id	donor_id	organ_name	patient_id	recipient_id	contact_info
1	jaipur	heart valves	1010	1	1	10	heart valves	1	NULL	9856545896
8	mumbai	pancrease	1004	2	2	4	pancreas	8	NULL	8854697856
18	pune	skin tissue	1009	3	3	9	skin tissue	18	NULL	8888634545
21	ahemdabad	liver	1003	4	4	3	liver	21	NULL	9864645621
25	nashik	heart	1019	5	5	18	heart	25	NULL	8845898642
27	hyderabad	bone marrow	1011	6	6	16	bone marrow	27	NULL	7866454644
30	thane	kidneys	1005	7	7	11	kidneys	30	NULL	8783458647

7 rows in set (0.001 sec)

View: Creating view table using patients table and organ transplant table.

```
MariaDB [casestudy]> create view patient_view2 as select pri_patients.*, pri_organ_transplant2.transplant_id from pri_patients, pri_organ_transplant2 where pri_patients.patient_id = pri_organ_transplant2.patient_id;
Query OK, 0 rows affected (0.346 sec)

MariaDB [casestudy]> select * from patient_view2;
```

patient_id	patient_name	age	contact_info	donor_id	transplant_id
1	Anamika	26	9856545896	NULL	1
8	Ramakrishna	58	8854697856	NULL	2
18	Chetan	31	8888634545	NULL	3
21	Shravan	50	9864645621	NULL	4
25	rajani	32	8845898642	NULL	5
27	Arohi	42	7866454644	NULL	6
30	Akash	25	8783458647	NULL	7

7 rows in set (0.001 sec)



Thank You