

## **DELIVERING HAPPINESS FOR UNDERPRIVILEGED IN DALLAS**

### **PART 1:**

#### **INTRODUCTION:**

- Phenomena – Delivering donations to underprivileged
- Information System – An information system which collects and delivers donations to underprivileged at their doorsteps.

#### **BUSINESS PROCESSES:**

- Collect volunteer information (BP1):
  - ✓ Post volunteer requirement(A1)
  - ❖ FUNCTIONAL REQUIREMENT:
    - Information regarding volunteer requirements should be posted
  - ✓ Collect and store volunteer data(A2)
  - ❖ FUNCTIONAL REQUIREMENT:
    - Volunteers should apply for the post
    - Volunteers should own a vehicle
    - Volunteers should have a valid driver's license
  - ❖ DATA REQUIREMENT:
    - A volunteer (Volunteer\_ID as the PK in VOLUNTEER table) has all the volunteer data.
  - ✓ Segregate volunteers based on availability and location(A3)
  - ❖ FUNCTIONAL REQUIREMENT:
    - Volunteers should be residents of Dallas
    - Volunteers should pass a background check
  - ❖ DATA REQUIREMENT:
    - A volunteer can collect items from one or many donors (Donor\_ID as the PK in DONOR table); a donor can contribute items to one or more volunteers
- Collect donor details and requests (BP2):
  - ✓ Gather donor requests and information via social media (A1)
  - ❖ FUNCTIONAL REQUIREMENTS:
    - Awareness should be created about the initiative

- Donors should have an account on social media platforms
  - Donors should post donor requests on social media platforms using hashtags
- ❖ DATA REQUIREMENTS:
  - List of all the donor details and requests (Donor\_ID are the PK in the DONOR table)
- ✓ Check availability of volunteers (A2)
- ❖ FUNCTIONAL REQUIREMENTS:
  - Assign a volunteer to collect the donation based on the area code of the donor
- ❖ DATA REQUIREMENTS:
  - List of the volunteers is managed
- Segregating the items (BP3):
  - ✓ Categorize donations based on item type (A1)
  - ❖ FUNCTIONAL REQUIREMENT:
    - Donation item type should be identified
    - The identified item should be categorized into domains like stationary, clothing, books, etc.
  - ❖ DATA REQUIREMENTS:
    - Every item can have only one category (Category\_ID as the PK in CATEGORY table). But one category can have one or more items.
  - ✓ Pack the items according to the recipient requests (A2)
  - ❖ FUNCTIONAL REQUIREMENTS:
    - Categorized items should be packed according to recipient needs
- Collect recipient details and requests (BP4):
  - ✓ Gather recipient requests from NGOs (A1)
  - ❖ FUNCTIONAL REQUIREMENTS:
    - Recipients should be registered to a government recognized NGO
    - Recipients should provide their requirements to the NGOs
  - ❖ DATA REQUIREMENTS:
    - List of all the recipient details and requests are gathered
  - ✓ Segregate the recipient request based on the item type (A2)
  - ❖ FUNCTIONAL REQUIREMENTS:
    - Requests should be organized based on the categories
  - ❖ DATA REQUIREMENTS:

- List of all the recipient's requests is then categorized

➤ Deliver the items to the recipient (BP5):

- ✓ Pick up the items from the collection point (A1)

❖ FUNCTIONAL REQUIREMENTS:

- Available volunteers should be contacted for delivery
- Volunteers should be given the recipient location
- Volunteers should pick up the packed donation from the collection point

❖ DATA REQUIREMENTS:

- A volunteer (Volunteer\_ID) can have one or more delivery under his/her name (Delivery\_ID as the PK in the Delivery table).

- ✓ Deliver items to the recipient (A2)

❖ FUNCTIONAL REQUIREMENTS:

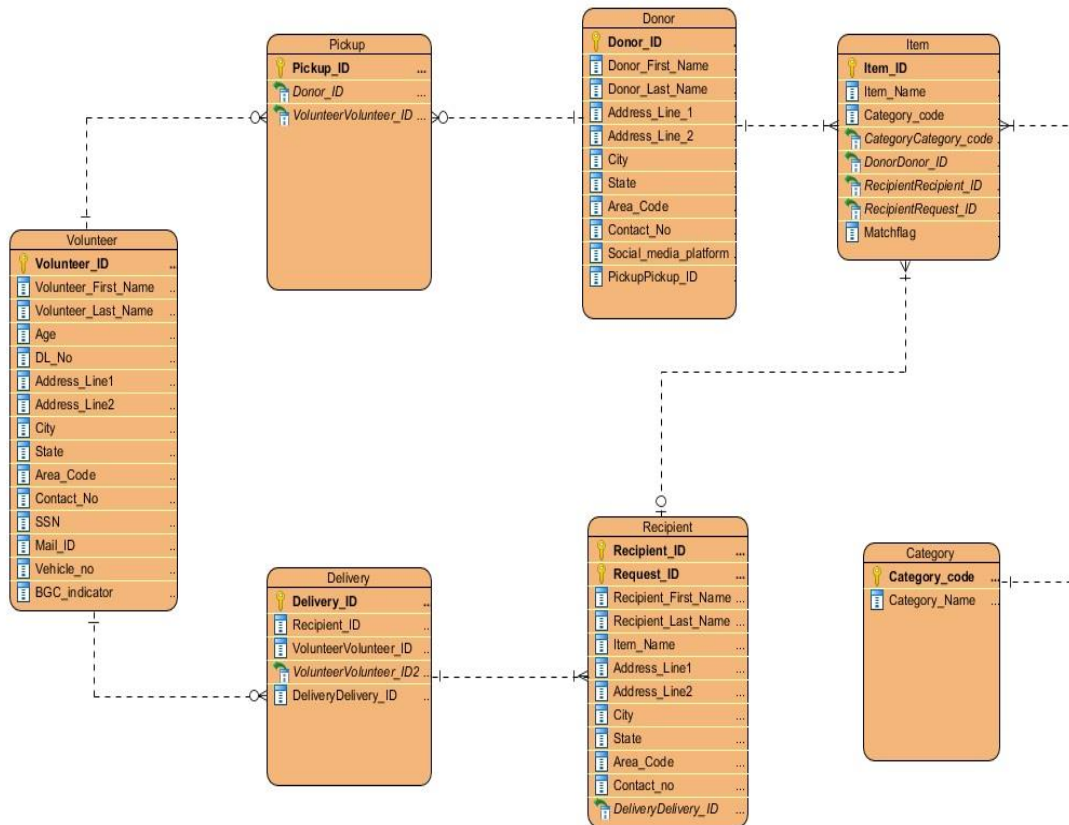
- Volunteers should deliver the donation to the recipient's doorstep

❖ DATA REQUIREMENTS:

- A recipient (Recipient\_ID is the PK in the RECIPIENT table) can receive one or more items (Recipient\_ID as the FK in ITEM table). One item can have only one recipient.

## PART 2:

### ENTITY RELATIONSHIP DIAGRAM:



## PART 3:

### NORMALIZED TABLE:

#### Table requirements:

➤ BP1 Requirements: There is a volunteer table which has the following fields,

- Volunteer ID (Primary Key)
- Volunteer First Name (Not Null)
- Volunteer Last Name (Not Null)
- Age
- Driver's License ID (Unique Key)

- Address Line 1
- Address Line 2
- City (Resident of Dallas)
- State (Texas – Mandatory)
- Area Code
- Contact Number
- SSN (Unique Key)
- Mail ID (Can be null)
- Vehicle Number (Not Null)
- BGC Indicator

➤ BP2 Requirements: The donor information is stored in a separate database,

- Donor ID (Primary Key)
- Donor First Name
- Donor Last Name
- Item Name (Foreign Key)
- Address Line 1
- Address Line 2
- City
- State
- Area Code
- Contact Number
- Social media platform

➤ BP3 Requirements: The items and the categories they fall under are stored in two different databases namely item and category,

Item table,

- Item name (Primary key)
- Item ID
- Category code (Foreign Key)

Category table,

- Category Name
- Category code (Primary Key)

➤ BP4 Requirements: The recipient information is stored in the recipient table with the below details,

- Recipient ID (Primary Key)
- Recipient First Name
- Recipient Last Name
- Delivery\_ID (Foreign Key)

- Address Line 1
  - Address Line 2
  - City
  - State
  - Area Code
  - Contact Number
- BP5 Requirements: The pickup and delivery information are stored in pickup and delivery table respectively,
- Pickup table,
- Volunteer ID (Foreign Key)
  - Donor ID
  - Pickup ID (Primary Key)
- Delivery table,
- Delivery\_ID (Primary Key)
  - Donor\_ID
  - Volunteer\_ID (Foreign Key)
  - Recipient\_ID
- Table Design:
    - Volunteer Table:
      - Volunteer\_ID is the Primary Key of the table
      - DL\_No is the Unique Key
      - SSN is the Unique Key

Volunteer	
Field Name	Data Type
Volunteer_ID	Short Text
Volunteer_First_Name	Short Text
Volunteer_Last_Name	Short Text
Age	Number
DL_No	Number
Address Line 1	Short Text
Address Line 2	Short Text
City	Short Text
State	Short Text
Area_Code	Number
Contact_no	Large Number
SSN	Short Text
Mail_ID	Short Text
Vehicle_no	Short Text
BGC_indicator	Number

➤ Pickup Table:

- Pickup\_ID is the Primary Key of the table
- Donor\_ID is the Foreign Key of the table
- Volunteer\_ID is the Foreign Key of the table

Pickup		
	Field Name	Data Type
	Pickup_ID	Number
	Donor_ID	Short Text
	Volunteer_ID	Short Text

➤ Donor Table:

- Donor\_ID is the Primary Key of the table

Donor		
	Field Name	Data Type
	Donor_ID	Short Text
	Donor_First_Name	Short Text
	Donor_Last_Name	Short Text
	Address_Line_1	Short Text
	Address_Line_2	Short Text
	City	Short Text
	State	Short Text
	Area_Code	Number
	Contact_No	Large Number
	Social_media_platform	Short Text
	Pickup_ID	Number

➤ Item Table:

- Item\_id is the Primary Key of the table
- Category\_code is the Foreign Key of the table
- Donor\_ID is the Foreign Key of the table
- Recipient\_ID is the Foreign Key of the table

Item	
Field Name	Data Type
Item_ID	Short Text
Item_name	Long Text
Category_code	Short Text
Donor_ID	Short Text
Recipient_ID	Short Text
Request_ID	Number
Match_Flag	Yes/No
Pickup_ID	Number
Delivery_ID	Number

➤ Category Table:

- Category\_code is the Primary Key of the table

Category	
Field Name	Data Type
Category_name	Short Text
Category_code	Short Text

➤ Delivery Table:

- Delivery\_ID is the Primary Key of the table
- Volunteer\_ID is the Foreign Key of the table

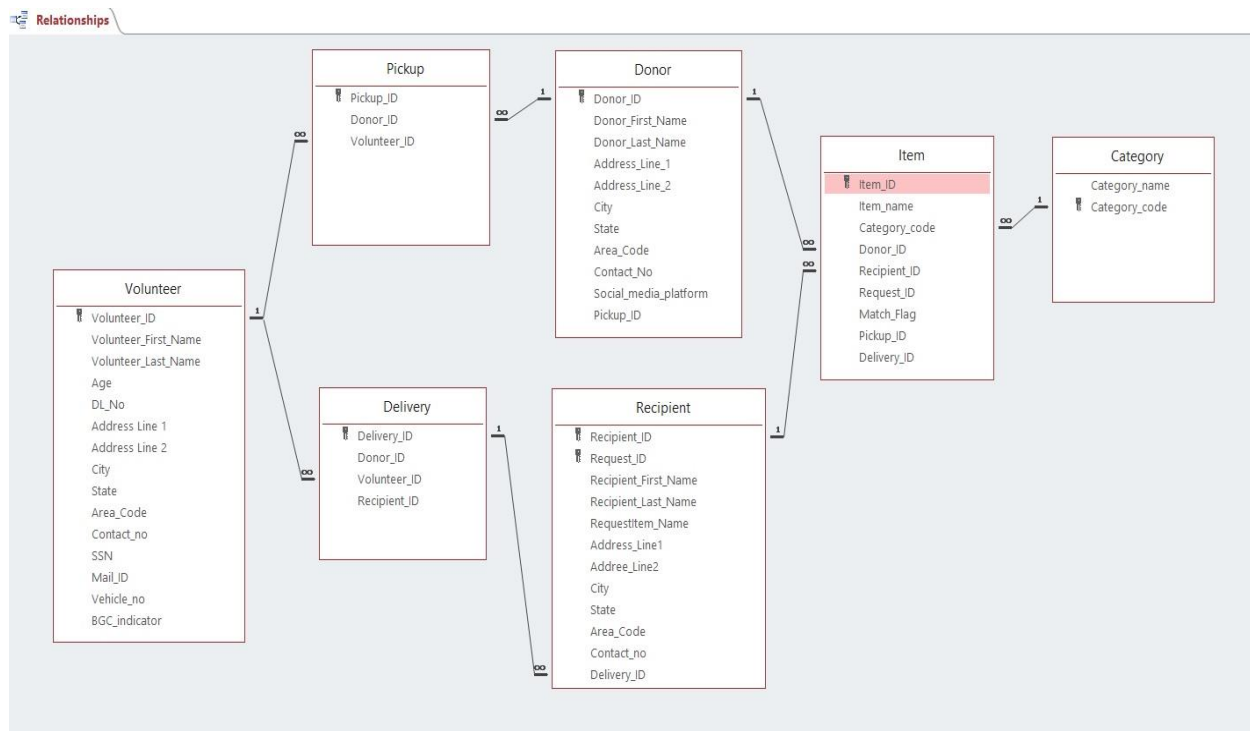
Delivery	
Field Name	Data Type
Delivery_ID	Short Text
Donor_ID	Short Text
Volunteer_ID	Short Text
Recipient_ID	Short Text



- Recipient Table:
- Recipient\_ID is the Primary Key of the table
  - Delivery\_ID is the Foreign Key of the table

Recipient		
	Field Name	Data Type
	Recipient_ID	Short Text
	Request_ID	Number
	Recipient_First_Name	Short Text
	Recipient_Last_Name	Short Text
	RequestItem_Name	Short Text
	Address_Line1	Short Text
	Addree_Line2	Short Text
	City	Short Text
	State	Short Text
	Area_Code	Number
	Contact_no	Large Number
	Delivery_ID	Short Text

### Relationship Diagram:



## PART 4:

### SQL QUERIES:

#### 1. BP1 Data Requirements:

- A volunteer table has all the volunteer data:

#### SQL query:

```
SELECT * FROM VOLUNTEER;
```

#### SQL Output:

Volunteer_ID	Volunteer_First_Name	Volunteer_Last_Name	Age	DL_No	Address Line 1	Address Line 2	City	State	Area_Code	Contact_no	SSN	
V1	Sarah	John	34	10376517	800 W Renner Rd	Apt#1256	Dallas	Texas	75075	7689085432	129-67-5690	saraj_j@gm
V10	Ram	Swamy	26	97408189	300 Roosevelt Dr	Apt # 67	Dallas	Texas	75070	8543280976	059-97-3216	ramaswamy
V11	Kirthana	Bala	25	89027593	706 Campbell Rd	Apt# 450	Dallas	Texas	75090	2145372087	965-12-2905	kirthana676
V12	Adithya	Suresh	27	16093620	83 Lincoln Pkwy	Apt# 90	Dallas	Texas	75060	5293647123	210-420-4563	adi.suresh8
V13	Rohan	Chandhoke	44	83598094	600 Coit Rd	Apt# 65	Dallas	Texas	75040	2153975423	872-51-6790	c.rohan@h
V14	Ross	Mosbey	35	12097429	507 Frankford Rd	Apt# 890	Dallas	Texas	75050	6825648827	524-81-9030	ross.mosbe
V15	Bharat	Rana	24	86091686	500 McCullum Blvd	Apt # 12	Dallas	Texas	75025	7413597413	829-94-7637	bharat_r@f
V2	Ankitha	Trivedi	23	23679876	700 Coit Rd	Apt # 09	Dallas	Texas	75080	8674139562	953-78-3216	ankitha.t96
V3	Sanjana	Naidu	21	21098745	8900 Waterview Pkwy	Apt # 653	Dallas	Texas	75065	9315268741	781-12-9763	sanjana.nai
V4	Joey	Tribiyani	44	76290520	1200 Private Dr	Apt# 67	Dallas	Texas	75085	3692587413	973-20-3621	joey_howui
V5	Sandra	Joseh	36	12870365	450 Flowerway Pkwy	Apt# 89	Dallas	Texas	75055	7832145682	741-38-8764	sandra.j@h
V6	Ragavi	Ramesh	24	67392096	890 Florence Rd	Apt# 45	Dallas	Texas	75030	5412369745	942-97-4231	ragavi_r94@
V7	Eric	Johnson	36	38649129	602 Conshocken Dr	Apt # 891	Dallas	Texas	75045	8549632568	201-97-4213	johnson_eri
V8	Daniel	Jackson	28	89734598	23 Kinsley Blvd	Apt# 6654	Dallas	Texas	75020	2157439871	103-89-4123	danieljacks
V9	Kiara	Kartick	31	12096438	2600 Franklin Dr	Apt# 762	Dallas	Texas	75035	2145372019	947-07-9654	kiarastanley
*			0	0					0	0		

- A volunteer can collect items from one or many donors.

#### SQL query:

```
SELECT          VOLUNTEER.VOLUNTEER_ID,          VOLUNTEER.VOLUNTEER_FIRST_NAME,
VOLUNTEER.SSN,          VOLUNTEER.VEHICLE_NO,          DONOR.DONOR_FIRST_NAME,
PICKUP.PICKUP_ID
FROM VOLUNTEER
INNER JOIN
(DONOR INNER JOIN PICKUP ON DONOR.DONOR_ID = PICKUP.DONOR_ID)
ON VOLUNTEER.VOLUNTEER_ID = PICKUP.VOLUNTEER_ID;
```

### SQL Output:

BP1 Req2						
volunteer_id	volunteer_first_name	ssn	vehicle_no	donor_first_r	pickup_id	
V6	Ragavi	942-97-4231	XYZ 4356	Emma	1	
V2	Ankitha	953-78-3216	MOP 6348	Anna	2	
V9	Kiara	947-07-9654	PKL 9807	Deepika	3	
V7	Eric	201-97-4213	MNO 4589	Sophie	4	
V5	Sandra	741-38-8764	MSD 3658	Elvis	5	
V3	Sanjana	781-12-9763	TDV 6574	Huma	6	
V1	Sarah	129-67-5690	GRT 1748	Patricia	7	
V1	Sarah	129-67-5690	GRT 1748	Patricia	8	
V3	Sanjana	781-12-9763	TDV 6574	Huma	9	
V5	Sandra	741-38-8764	MSD 3658	Elvis	10	
V6	Ragavi	942-97-4231	XYZ 4356	Emma	11	
V13	Rohan	872-51-6790	KJO 7860	Mathew	12	
V13	Rohan	872-51-6790	KJO 7860	Mathew	13	
V14	Ross	524-81-9030	HGU 9453	Vivian	14	
V12	Adithya	210-420-4563	SOT 1786	Annie	15	
V10	Ram	059-97-3216	FRH 4368	Salma	16	
V15	Bharat	829-94-7637	DEF 1256	Ronald	17	
V11	Kirthana	965-12-2905	XYZ 7890	Christina	18	
V8	Daniel	103-89-4123	ABC 1234	Ella	19	
V4	Joey	973-20-3621	GJM 2456	Brad	20	

### 2. BP2 Data Requirements:

- List of all the donor details and requests.

#### SQL query:

```
SELECT * FROM DONOR;
```

## SQL Output:

BP2 Req	Donor_ID	Donor_First	Donor_Last	Address_Line_1	Address_Line	City	State	Area_Code	Contact_No	Social_media_platfc	Pickup_ID
	D1	Emma	Watson	2700 Coit Rd	Apt # 891	Dallas	Texas	75030	5832145682	Facebook	1
	D10	Anna	Willaim	600 W Renner Rd	Apt # 653	Dallas	Texas	75080	9689085432	Facebook	2
	D11	Deepika	Padukone	128 Coit Rd	Apt # 09	Dallas	Texas	75035	7157439871	Facebook	3
	D12	Sophie	Turner	800 Campbell Rd	Apt# 89	Dallas	Texas	75045	7315268741	Twitter	4
	D13	Elvis	Ragaland	4518 Private Dr	Apt# 450	Dallas	Texas	75055	7543280976	Twitter	5
	D14	Huma	Qureshi	875 McCullum Blvd	Apt# 762	Dallas	Texas	75065	3549632568	Facebook	6
	D15	Patricia	Holmes	170 Kinsley Blvd	Apt # 12	Dallas	Texas	75075	5825648827	Twitter	7
	D2	Mathew	Thomas	6511 Florence Rd	Apt# 65	Dallas	Texas	75040	6293647123	Facebook	12
	D3	Vivian	Richards	900 Franklin Dr	Apt # 09	Dallas	Texas	75050	9413597413	Facebook	14
	D4	Annie	Hathway	2718 Frankford Rd	Apt# 6654	Dallas	Texas	75060	4412369745	Twitter	15
	D5	Salma	Jones	6500 Conshocken Dr	Apt# 890	Dallas	Texas	75070	2153975423	Twitter	16
	D6	Ronald	Weasley	72 Lincoln Pkwy	Apt# 45	Dallas	Texas	75025	6692587413	Twitter	17
	D7	Christina	Perry	90 Flowerway Pkwy	Apt# 90	Dallas	Texas	75020	3145372087	Snapchat	18
	D8	Ella	Johnson	309 Roosevelt Dr	Apt# 67	Dallas	Texas	75020	5674139562	Snapchat	19
	D9	Brad	Presley	1890 Waterview Pkwy	Apt # 67	Dallas	Texas	75085	6145372019	Facebook	20
*								0	0		0

### 3. BP3 Data Requirements:

- Every item can have only one category.

#### SQL query:

```
SELECT CATEGORY.*, ITEM.*
FROM CATEGORY
INNER JOIN ITEM
ON
CATEGORY.CATEGORY_CODE = ITEM.CATEGORY_CODE;
```

## SQL Output:

BP3 Req	Category_name	Category.Cat	Item_ID	Item_name	Item.Category_coc	Donor_ID	Recipient_ID	Request_ID	Match_Flag	Pickup_ID	Delivery_ID
	Clothing	C1	1	Sweater	C1	D1	R1	1	✓	1	1
	Clothing	C1	17	Men's winter jacket	C1	D14	R6	1	✓	3	8
	Clothing	C1	2	Men's sweatshirt	C1	D2	R10	1	✓	5	10
	Clothing	C1	3	Women's formal shirt	C1	D3	R11	1	✓	11	11
	Stationery	C2	18	Paint brush	C2	D13	R7	1	✓	5	5
	Stationery	C2	4	Pencil	C2	D4	R12	1	✓	15	14
	Stationery	C2	5	Eraser	C2	D5	R13	1	✓	13	15
	Stationery	C2	6	Crayons	C2	D6	R14	1	✓	14	13
	Footwear	C3	19	Sneakers	C3	D1	R8	1	✓	6	9
	Footwear	C3	7	Women's boots	C3	D7	R15	1	✓	12	9
	Footwear	C3	8	Flip flops	C3	D8	R2	1	✓	4	10
	Footwear	C3	9	Women's formal shoes	C3	D9	R3	1	✓	4	4
	Food	C4	10	Eggs	C4	D10	R1	2	✓	2	2
	Food	C4	11	Chicken	C4	D11			✓	4	
	Food	C4	12	Cheese	C4	D12	R2	2	✓	5	3
	Food	C4	20	Bread	C4	D2	R9	1	✓	7	10
	Books	C5	13	High School Physics	C5	D13			✓	8	
	Books	C5	14	Middle school Mathematics	C5	D14			✓	9	
	Books	C5	15	Geology for beginners	C5	D15	R4	1	✓	10	6
	Books	C5	16	History of USA	C5	D15	R5	1	✓	3	7

### 4. BP4 Data Requirements: List of all the recipient details and requests are gathered.

### SQL query:

```
SELECT * FROM RECIPIENT;
```

### SQL Output:

Recipient	Request_ID	Recipient_First_N	Recipient_Last_N	RequestItem_Name	Address_Line1	Address_Line2	City	State	Area_Code	Contact_no	Delivery_ID
R1		1 Isabella	Swan	Sweater	6700 Canyon Creek Rd	Apt# 1209	Dallas	Texas	75030	8963215671	10
R10		1 Donald	Rufus	Men's sweatshirt	1200 E Renner Road	Apt# 8720	Dallas	Texas	75035	4713269423	2
R11		1 Harry	Potter	Women's formal shirt	1500 Parkinson Av	Apt# 6700	Dallas	Texas	75040	7893216542	3
R12		1 Emma	Watson	Pencil	900 Franklin Blvd	Apt# 8719	Dallas	Texas	75045	2148963215	4
R13		1 Sharon	Ruth	Eraser	700 McCullum Rd	Apt# 8906	Dallas	Texas	75050	6587413951	5
R14		1 Gerald	Thomas	Crayons	5679 Frankford Rd	Apt# 1200	Dallas	Texas	75055	3297413657	6
R15		1 Margaret	Butcher	Women's boots	6200 Roosevelt Blvd	Apt# 101	Dallas	Texas	75060	7413987536	7
R2		2 Edward	Cullen	Cheese	1790 Coit Rd	Apt# 103	Dallas	Texas	75065	3267413986	12
R3		1 Dmitri	Karakov	Women's formal shoes	600 Boyce Av	Apt# 303	Dallas	Texas	75075	7893261475	9
R4		1 Maria	Sheldon	Geology for beginners	54 Uruguay Pkwy	Apt# 1124	Dallas	Texas	75080	1239647539	16
R5		1 Peter	Daniel	History of USA	8600 Waterview Pkwy	Apt# 9012	Dallas	Texas	75085	8759641247	15
R6		1 Alice	Patel	Men's winter jacket	1700 Florence Blvd	Apt# 7800	Dallas	Texas	75090	8574123658	14
R7		1 Keziah	Vargese	Paint brush	245 Walter Rd	Apt# 7654	Dallas	Texas	75020	7841235412	13
R8		1 Sophia	George	Sneakers	7644 Henry Ford Rd	Apt# 8900	Dallas	Texas	75025	9873652368	1
R9		1 Jason	Walter	Bread	2300 Grapevine Blvd	Apt# 202	Dallas	Texas	75070	9631274136	

### 5. BP5 Requirements:

- A volunteer (Volunteer\_ID) can have one or more delivery under his/her name (Delivery\_ID as the PK in the Delivery table).

### SQL query:

```
SELECT VOLUNTEER.VOLUNTEER_FIRST_NAME, VOLUNTEER.SSN, VOLUNTEER.VEHICLE_NO,
DELIVERY.*
FROM VOLUNTEER
INNER JOIN DELIVERY
ON VOLUNTEER.VOLUNTEER_ID = DELIVERY.VOLUNTEER_ID;
```

### SQL Output:

Volunteer_First_Name	SSN	Vehicle_NO	Delivery_ID	Donor_ID	Volunteer_ID	Recipient_ID
Bharat	829-94-7637	DEF 1256	1	D1	V15	R8
Ragavi	942-97-4231	XYZ 4356	10	D1	V6	R1
Ragavi	942-97-4231	XYZ 4356	11	D10	V6	R1
Sanjana	781-12-9763	TDV 6574	12	D12	V3	R2
Daniel	103-89-4123	ABC 1234	13	D13	V8	R7
Kirthana	965-12-2905	XYZ 7890	14	D14	V11	R6
Joey	973-20-3621	GJM 2456	15	D15	V4	R5
Ankitha	953-78-3216	MOP 6348	16	D15	V2	R4
Ram	059-97-3216	FRH 4368	17	D2	V10	R9
Kiara	947-07-9654	PKL 9807	2	D2	V9	R10
Rohan	872-51-6790	KJO 7860	3	D3	V13	R11
Eric	201-97-4213	MNO 4589	4	D4	V7	R12
Ross	524-81-9030	HGU 9453	5	D5	V14	R13
Sandra	741-38-8764	MSD 3658	6	D6	V5	R14
Adithya	210-420-4563	SOT 1786	7	D7	V12	R15
Sanjana	781-12-9763	TDV 6574	8	D8	V3	R2
Sarah	129-67-5690	GRT 1748	9	D9	V1	R3

- A recipient (Recipient\_ID is the PK in the RECIPIENT table) can receive one or more items (Recipient\_ID as the FK in ITEM table). One item can have only one recipient.

#### SQL query:






```
SELECT DELIVERY.DELIVERY_ID, RECIPIENT.RECIPIENT_FIRST_NAME, ITEM.*
FROM
(DEIVERY INNER JOIN RECIPIENT ON DELIVERY.DELIVERY_ID = RECIPIENT.DELIVERY_ID)
INNER JOIN
ITEM
ON RECIPIENT.RECIPIENT_ID = ITEM.RECIPIENT_ID;
```

#### SQL Output:

Delivery.Deli	Recipient_First_N	Item_ID	Item_name	Category_code	Donor_ID	Recipient_ID	Request_ID	Match_Flag	Pickup_ID	Item.Delivery
10	Isabella	1	Sweater	C1	D1	R1	1	✓	1	1
10	Isabella	10	Eggs	C4	D10	R1	2	✓	2	2
2	Donald	2	Men's sweatshirt	C1	D2	R10	1	✓	5	10
3	Harry	3	Women's formal shirt	C1	D3	R11	1	✓	11	11
4	Emma	4	Pencil	C2	D4	R12	1	✓	15	14
5	Sharon	5	Eraser	C2	D5	R13	1	✓	13	15
6	Gerald	6	Crayons	C2	D6	R14	1	✓	14	13
7	Margaret	7	Women's boots	C3	D7	R15	1	✓	12	9
12	Edward	12	Cheese	C4	D12	R2	2	✓	5	3
12	Edward	8	Flip flops	C3	D8	R2	1	✓	4	10
9	Dmitri	9	Women's formal shoes	C3	D9	R3	1	✓	4	4
16	Maria	15	Geology for beginners	C5	D15	R4	1	✓	10	6
15	Peter	16	History of USA	C5	D15	R5	1	✓	3	7
14	Alice	17	Men's winter jacket	C1	D14	R6	1	✓	3	8
13	Keziah	18	Paint brush	C2	D13	R7	1	✓	5	5
1	Sophia	19	Sneakers	C3	D1	R8	1	✓	6	9

## APPENDICES:

### JOURNAL:

-  **QUESTION 1:** Would having a BGC flag help in identifying the volunteers that are approved to work?  
**RESPONSE:** Yes, it would help avoid creating trouble and protecting the donors since the volunteers go to their homes to pick-up donations
-  **QUESTION 2:** Do you think that the segregation of the available volunteers be done using the location?  
**RESPONSE:** Using Area code segregation would be easier and effective.
-  **QUESTION 3:** Collecting data for donation requests is important, so will social media be a good platform?  
**RESPONSE:** Yes, it would be a good option since everybody has internet and therefore can be a cost- friendly promotion too.
-  **QUESTION 4:** Segregating the received donation items can be segregated into damaged, undamaged then categories?  
**RESPONSE:** Returning the damaged good by the volunteer on pickup is better and categorizing the undamaged items into division like clothing, footwear etc. will help be most organized and run queries effectively  
**REPLY:** Checking for damaged good on while pickup is tedious job. So, we think separating them and the categorizing the undamaged item will be better.
-  **QUESTION 5:** One volunteer can deliver the requested donations to the respective recipients if the drop locations are not very far apart.  
**RESPONSE:** Yes, in the same way how one volunteer can pick-up donations from multiple donors

## **PART 1: Business process with their corresponding functional and data requirement**

**FEEDBACK** – All the business processes are neatly noted. Each business process has relevant functional and data requirements

**RESPONSE/ACTION** – Proof read once more and then proceeded to the part 2 of the project

## **PART 2: Entity Relationship Diagram**

**FEEDBACK** – The relationship between pickup and donor table could be many to many. Review all the relationships and added category\_id in the item table.

**RESPONSE/ACTION** – Took the feedback under consideration, made the relationship between the pickup and delivery table and added the Fk to the item table. After which the functional and data requirements for their respective activity was also updated and proceeded to the part 3 of the project.

## **PART 3: Logical database design - Normalized table**

**FEEDBACK** – The table design is correctly related and clearly represented

**RESPONSE/ACTION** – Crossed checked all the relationships and the proceeded to the part 4 of the project

## **PART 4: SQL Queries**

**FEEDBACK** – The required data was correctly obtained using the relevant queries

**RESPONSE/ACTION** – Verified all the obtained data from the result of the query and concluded the project