Queries

 Find all the volunteers in the rescue teams that are currently active and specialize in Medical Aid.

```
disaster=# SELECT DISTINCT v.volunteer_id, v.name
disaster-# FROM volunteer as v ,rescue_team as r, volunteer_rescue_team as vr disaster-# WHERE r.status='Active' and v.volunteer_id=vr.volunteer_id and vr.team_id=r.team_id disaster-# ORDER by v.volunteer_id;
 volunteer_id |
                               name
                      Rajesh Kumar
                 2
                      Anita Sharma
                      Vikram Singh
                 5
                      Amit Gupta
                      Arjun Patel
                 8
                      Sunita Joshi
                10
                     Neha Kapoor
               11 | Sandeep Malhotra
(8 rows)
```

2) Find all the disasters and their locations that happened before the year 2024.

```
SELECT disaster_type,location,date
disaster=#
             FROM disaster where date<'2024-01-01';
disaster-#
                         location
disaster_type |
                                                date
Cyclone
                 Odisha, India
                                             2023-10-05
Wildfire
                 Bandipur, India
                                             2023-03-22
                 Leh, India
Blizzard
                                             2023-12-19
                 West Bengal, India
Cyclone
                                             2023-09-20
Flood
                 Patna, India
                                             2023-06-30
                 Nagpur, India
Heatwave
                                             2023-04-15
                 Shillong, India
Landslide
                                             2023-07-18
                 Andaman & Nicobar, India
Tsunami
                                             2022-11-10
                 Wayanad, India
Wildfire
                                             2023-02-25
Drought
                 Madhya Pradesh, India
                                             2023-03-14
                 Shimla, India
Earthquake
                                             2023-05-12
                 Kochi, India
Flood
                                             2023-07-10
(12 rows)
```

3) Find the available capacity of each relief center.

4) Return the number of people that are still missing from each disaster affected area in ascending order.

 Find all the teams that are currently working in the following areas - Manali, Mumbai, Gangtok.

 Find the names of relief centres that have received donations from donors who have contributed more than 10,000 in total.

```
dbmsproj=# SELECT rc.Name
dbmsproj-# FROM Relief_Center rc
dbmsproj-# WHERE rc.Relief_Center_ID IN (
dbmsproj(#
               SELECT d.Relief_Center_ID
dbmsproj(#
              FROM Donation d
dbmsproj(#
              WHERE d.Donor_Name IN (
dbmsproj(#
                   SELECT Donor_Name
dbmsproj(#
                   FROM Donation
dbmsproj(#
                  GROUP BY Donor_Name
                  HAVING SUM(Amount) > 10000
dbmsproj(#
dbmsproj(#
dbmsproj(# );
             name
 Delhi Relief Hub
 Mumbai Relief Shelter
Chennai Coastal Relief Center
Odisha Cyclone Shelter
 Bihar Flood Relief Camp
(5 rows)
```

Find the names of the volunteers who are part of more than one rescue team.

8) Calculate the total donations received by each relief center and display the relief center name along with the total donation amount.

```
dbmsproj=# SELECT rc.Name AS Relief_Center_Name, SUM(d.Amount) AS Total_Donations
dbmsproj-# FROM Relief_Center rc
dbmsproj-# JOIN Donation d ON rc.Relief_Center_ID = d.Relief_Center_ID
dbmsproj-# GROUP BY rc.Name;
      relief_center_name
                                | total_donations
Madhya Pradesh Drought Camp
                                             7500
Bihar Flood Relief Camp
                                           112000
Delhi Relief Hub
                                           585000
Odisha Cyclone Shelter
                                           200000
Mumbai Relief Shelter
                                           850000
Chennai Coastal Relief Center
                                          410000
Leh Snowstorm Aid Center
                                             6000
(7 rows)
```

9) Find the information about ongoing disasters, including the disaster type, date, location, and the rescue teams assigned to them along with their specializations.

```
dbmsproj=# SELECT d.Disaster_Type, d.Date, d.Location, rt.Team_Name, rt.Specialization
dbmsproj-# FROM Disaster d
dbmsproj-# JOIN Disaster_Assigned_Teams dat ON d.Disaster_ID = dat.Disaster_ID
dbmsproj-# JOIN Rescue_Team rt ON dat.Team_ID = rt.Team_ID
dbmsproj-# WHERE d.Status = 'Ongoing';
disaster_type | date | location | team
                                                                                                    specialization
 Flood
                   2025-04-12
                                  Mumbai
                                                      Flood Relief Force
                                                                                      Flood & Water Rescue Operations
 Flood
                   2025-04-12
                                  Mumbai
                                                      Tsunami Rescue Corps
                                                                                      Coastal Evacuations & Aid Distribution
                                  Darjeeling
                                                                                      Earthquake Rescue & Evacuation
 Landslide
                   2025-03-15
                                                      Rapid Response Squad
                   2025-03-15
                                                      Hazardous Materials Team
                                                                                      Chemical & Gas Leak Disasters
 Landslide
                                  Darjeeling
                   2025-04-10
                                                      Drought Relief Task Force
                                                                                      Water Distribution & Medical Assistance
 Drought
                                  Rajasthan
                   2025-04-10
                                                                                      First Aid & Emergency Transport
Earthquake Rescue & Evacuation
 Drought
                                  Rajasthan
                                                      First Responders Unit
 Earthquake
                   2025-04-20
                                  Gangtok
                                                      Rapid Response Squad
                                                                                      First Aid & Emergency Transport
Water Distribution & Medical Assistance
 Earthquake
                   2025-04-20
                                  Gangtok
                                                      First Responders Unit
 Drought
                   2023-03-14
                                  Madhya Pradesh
                                                      Drought Relief Task Force
 Drought
                   2023-03-14
                                  Madhya Pradesh
                                                      First Responders Unit
                                                                                      First Aid & Emergency Transport
                   2025-04-29
                                  Manali
                                                                                      Snow Removal & Hypothermia Treatment
 Blizzard
                                                      Blizzard Response Team
 Blizzard
                   2025-04-29
                                  Manali
                                                      First Responders Unit
                                                                                      First Aid & Emergency Transport
(12 rows)
```

10) Calculate the total number of victims and the total damage estimation for each disaster type.

```
dbmsproj=# SELECT d.Disaster_Type,
                  COUNT(v. Victim_ID) AS Total_Victims,
dbmsproj-#
dbmsproj-#
                  SUM(aa.Damage_Estimation) AS Total_Damage
dbmsproj-# FROM Disaster d
dbmsproj-# LEFT JOIN Victim v ON d.Disaster_ID = v.Disaster_ID
dbmsproj-# LEFT JOIN Affected_Area aa ON d.Disaster_ID = aa.Disaster_ID
dbmsproj-# GROUP BY d.Disaster_Type;
disaster_type | total_victims | total_damage
Drought
                             0 I
                                      22000000
Tsunami
                             0
                                      38000000
Cyclone
                            12 |
                                      97000000
Heatwave
                             8
                                      22500000
Wildfire
                             0 I
                                       9500000
Blizzard
                             0
                                       5800000
Flood
                            12 |
                                      66000000
Earthquake
                            10
                                      26500000
Landslide
                            10 l
                                      11000000
(9 rows)
```