FLOOD AID 360

GROUP MEMBERS

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Dedication/Acknowledgment

Thanks to Allah Almighty who made us able to complete this final project report. Also our course teacher who guided us in this project. All the members of the team who worked hard and diligently to complete this project.

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Abstract

Flood Aid 360 is an integrated digital ecosystem designed to streamline disaster response and recovery operations during large-scale flooding events. Traditional relief efforts often suffer from information silos and logistical bottlenecks; this project addresses these challenges by centralizing data from ground volunteers, government agencies, and donors into a single, cohesive platform. Utilizing real-time geospatial mapping and predictive analytics, Flood Aid 360 enables precise resource allocation, ensuring that food, medical supplies, and rescue teams reach the most vulnerable areas with minimal delay. The system features a multi-tiered interface for administrative oversight, field reporting, and public transparency, ultimately transforming chaotic data into actionable intelligence to save lives and optimize post-flood rehabilitation.

Description:

Flood Aid 360 is an integrated digital ecosystem engineered to revolutionize the landscape of disaster response and humanitarian relief during flooding crises. At its core, the platform serves as a centralized intelligence hub that bridges the critical communication gap between flood victims, rescue teams, government agencies, and global donors. By adopting a "360-degree" approach, the system manages the entire disaster lifecycle from the initial issuance of early warnings and the coordination of high-stakes rescue missions to the long-term logistics of post-flood rehabilitation. Through the use of real-time geospatial mapping and dynamic data visualization, the platform transforms chaotic field reports into an actionable operational picture, ensuring that aid is directed to the most isolated and vulnerable populations who are often overlooked by traditional relief methods.

The platform’s strength lies in its ability to synchronize complex logistical operations through a suite of specialized modules. It features a smart resource allocation engine that tracks the movement of essential supplies like food, medicine, and clean water, effectively preventing the common issues of resource hoarding and logistical bottlenecks. Simultaneously, it provides a secure and verified SOS channel for victims to signal for help, utilizing location-based services to prioritize rescue efforts based on the severity of the situation. By digitizing the humanitarian supply chain and offering a transparent portal for financial tracking, Flood Aid 360 not only accelerates the speed of emergency response but also fosters deep institutional trust and accountability. Ultimately, the project aims to replace fragmented manual processes with a unified, scalable infrastructure that maximizes the impact of every helping hand and saves more lives in the face of climate uncertainty.

FLOOD AID 360

Step 1: Requirement Analysis

1. Core Requirements

These are the essential features that the system must support to operate effectively during flood relief operations.

• Store Flood-Affected Area Details

The system must maintain complete information about flood-affected areas, including:

- Area name and geographic location
- Flood severity level (low, medium, high, critical)
- Date and time of flood occurrence
- Current status of the area (active, under control, recovered)

This information helps authorities and relief teams identify the most critical locations and plan relief activities accordingly.

• Register Victims with Personal and Medical Information

The system should allow registration of flood victims by storing:

- Personal details (name, age, gender, contact information)
- Family details and number of dependents
- Medical conditions (injuries, disabilities, chronic illnesses)
- Priority level based on vulnerability (children, elderly, pregnant women, disabled persons)

This ensures that aid is distributed fairly and medical assistance reaches those who need it most.

• Track Relief Resources and Their Distribution

The system must track all relief resources such as:

- Food supplies
- Clean drinking water
- Medicines and medical kits
- Clothing and shelter materials

It should also record:

- Quantity available
- Distribution history
- Which victims or areas received the resources
- Remaining stock levels

This prevents resource wastage, duplication, and shortages.

• Manage Volunteers and Donor Records

The system should store and manage:

- Volunteer details (name, contact, skills, availability)
- Assigned tasks and deployment areas
- Donor information (individuals, NGOs, organizations)
- Type of donations (cash, goods, services)

This ensures proper coordination between volunteers and transparent management of donations.

• Enable Search by Location, Priority Level, and Resource Type

The system should support efficient search functionality, allowing users to:

- Find victims based on location or severity of need
- Identify high-priority cases quickly
- Search available resources by type and quantity

This feature helps decision-makers respond quickly in emergency situations.

2. Stakeholders

Stakeholders are individuals or groups who interact with or benefit from the system.

1. Victims

- Register themselves or be registered by relief workers
- Request help and report urgent needs
- Receive relief resources and medical assistance

2. Relief Workers / Volunteers

- Access victim and area information
- Deliver aid and provide on-ground assistance
- Update distribution status and field reports

3. Donors / NGOs

- Provide financial support, goods, or services
- Track how and where their donations are used
- Ensure transparency and trust in relief operations

4. Government Officials / Administrators

- Monitor overall relief operations
- Approve and supervise resource distribution
- Generate reports for planning and accountability
- Ensure compliance with policies and regulations

3. Functional Requirements

Functional requirements describe **what the system must do**.

• Register Flood-Affected Areas and Victims

The system should allow authorized users to add, update, and delete records of affected areas and victims.

• Track Available Resources and Their Distribution

The system must maintain real-time records of resources, their availability, and distribution status.

• Manage Volunteer Assignments

Administrators should be able to assign volunteers to specific areas or tasks based on skills and availability.

• Record Donations and Donor Details

The system must store complete donation records, including donor information, donation type, and usage details.

• Search Victims by Priority, Location, or Medical Needs

Users should be able to quickly locate victims requiring urgent assistance using filters and search criteria.

• Send Alerts or Updates to Stakeholders

The system should notify stakeholders through alerts or messages about:

- Emergency updates
- Resource shortages
- Distribution schedules
- Important announcements

Step 2: Conceptual Design – ERD

Entities & Attributes

- **Area**(AreaID, District, Village, SeverityLevel, GPSCoordinates)
- **Victim**(VictimID, Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)

- **Resource**(ResourceID, Type, Quantity, ExpiryDate, Source)
- **Distribution**(DistributionID, VictimID, ResourceID, Date, Quantity)
- **Volunteer**(VolunteerID, Name, Skill, Location, Availability)
- **Donor**(DonorID, Name, Contact, DonationType)
- **Donation**(DonationID, DonorID, ResourceID, Amount, Date)

Relationships in Flood Relief Management System

Relationships describe how different entities in the system are connected to each other. These relationships help in designing the **database structure** and ensure **data integrity and consistency**.

• Area 1 : N Victim

One **flood-affected area** can have **many victims**, but each victim is associated with **only one area**.
This relationship helps in:

- Identifying how many victims are affected in a specific area
- Allocating resources based on area severity and population

• Victim 1 : N Distribution

One **victim** can have **multiple distribution records**, representing different relief items received over time.
Each distribution record, however, belongs to **only one victim**.
This allows tracking of:

- What type of aid a victim received
- When and how often aid was provided

• Resource 1 : N Distribution

One **resource type** (e.g., food, medicine, water) can be distributed **multiple times** to different victims.
Each distribution record refers to **only one resource**.
This ensures proper tracking of:

- Resource usage
- Remaining stock levels

• Donor 1 : N Donation

A **donor** (individual, NGO, or organization) can make **multiple donations**.
Each donation record is linked to **one specific donor**.
This relationship supports:

- Donation history tracking
- Transparency and accountability

• Resource 1 : N Donation

One **resource** can be associated with **multiple donations** received at different times or from different donors.
Each donation contributes to **one resource type**.
This helps in:

- Tracking how resources are funded or supplied
- Mapping donations to available relief items

Business Rules for Flood Relief Management System

Business rules define the **constraints, relationships, and policies** that govern how the system operates. These rules ensure **data consistency, fairness, transparency, and controlled access** during flood relief operations.

1. Victim & Area Rules

• A Victim Must Belong to One Flood-Affected Area

Each registered victim is associated with **exactly one flood-affected area**.
This ensures:

- Clear identification of the victim's location
- Proper planning of relief activities
- Avoidance of duplicate registrations across multiple areas

• An Area Can Have Many Victims

A single flood-affected area can include **multiple victims**.
This represents a **one-to-many relationship**, allowing authorities to:

- Analyze the impact level of a specific area
- Allocate resources based on population size and severity

• Each Victim Has a Priority Level Based on Vulnerability

Every victim is assigned a **priority level** determined by vulnerability factors such as:

- Elderly persons
- Children
- Disabled individuals
- Pregnant women or critically ill patients

This rule ensures that **high-risk individuals receive assistance first**, especially during resource shortages.

2. Resource & Distribution Rules

• A Resource Can Be Distributed to Many Victims

One type of resource (e.g., food, water, medicine) can be distributed to **multiple victims**, depending on availability and need.

• A Victim Can Receive Multiple Resources

A single victim may receive **more than one type of resource**, such as:

- Food packages
- Medical supplies
- Shelter items

This supports comprehensive aid delivery.

• Each Distribution Record Must Link a Specific Resource to a Specific Victim

Every distribution entry must clearly identify:

- Which resource was given
- To which victim
- Date and quantity of distribution

This creates a **many-to-many relationship** between victims and resources, resolved through a **distribution record** to maintain traceability.

• Resources Must Be Tracked for Expiry Dates and Source Attribution

Each resource must include:

- Expiry date (especially for food and medicine)
- Source information (donor, NGO, government supply)

This rule helps:

- Prevent distribution of expired items
- Maintain transparency about where resources come from

3. Donor & Donation Rules

• A Donor Can Make Multiple Donations

A single donor (individual, NGO, or organization) may contribute **multiple donations** over time.

• A Donation Must Be Linked to a Specific Resource

Each donation must be associated with a **specific resource type**, such as:

- Food items
- Medical kits
- Cash (converted into resources)

This ensures accurate tracking of donation usage.

• Donations Must Record Amount, Type, and Date

For accountability and auditing purposes, each donation must store:

- Donation amount or quantity
- Type of donation (cash, goods, services)
- Date of donation

This rule supports transparency and reporting.

4. Volunteer Coordination Rules

• A Volunteer Can Be Assigned to Multiple Areas or Tasks

Volunteers may work in:

- Different flood-affected areas
- Multiple tasks such as distribution, medical aid, or rescue

This allows flexible deployment of human resources.

• Volunteers Must Be Matched Based on Skills and Location Proximity

Volunteer assignments should consider:

- Skill set (medical aid, logistics, rescue)
- Distance from affected areas

This improves efficiency and response time during emergencies.

• Availability Status Must Be Updated Regularly

Each volunteer must have an updated availability status such as:

- Available
- Assigned
- Unavailable

This prevents over-allocation and ensures realistic planning.

5. Admin Oversight Rules

• Only Admins Can Approve or Reject Resource Distributions

Final approval authority lies with **system administrators** to:

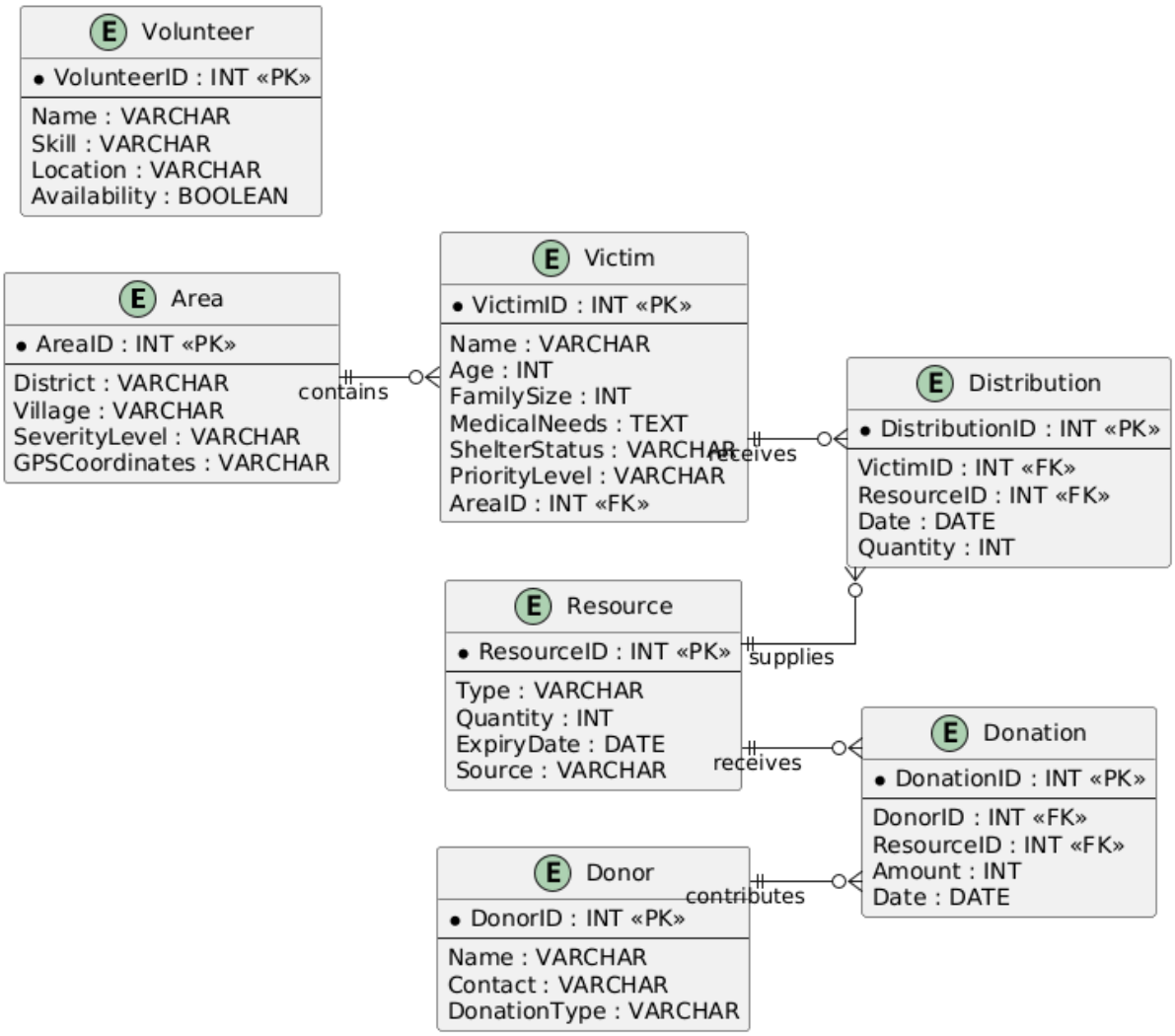
- Prevent misuse or duplication of resources
- Ensure fair and authorized distribution

• Admins Can View Real-Time Dashboards and Query System Logs

Admins must have access to:

- Live dashboards showing relief operations
- System logs for tracking actions and decisions

This supports **monitoring, auditing, and decision-making** at a higher level.



Step 3: Logical Design – Relational Schema (MySQL/PostgreSQL Style)

1. Area Table

```
CREATE TABLE Area (
  AreaID INT PRIMARY KEY AUTO_INCREMENT,
  District VARCHAR(100),
  Village VARCHAR(100),
  SeverityLevel VARCHAR(20),
  GPSCoordinates VARCHAR(50)
);
```

2. Victim Table

```
CREATE TABLE Victim (
  VictimID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100),
  Age INT,
  FamilySize INT,
  MedicalNeeds TEXT,
  ShelterStatus VARCHAR(50),
  PriorityLevel VARCHAR(20),
  AreaID INT,
  FOREIGN KEY (AreaID) REFERENCES Area(AreaID) ON DELETE CASCADE
);
```

3. Resource Table

```
CREATE TABLE Resource (
  ResourceID INT PRIMARY KEY AUTO_INCREMENT,
  Type VARCHAR(100),
  Quantity INT,
  ExpiryDate DATE,
  Source VARCHAR(100)
);
```

4. Distribution Table

```
CREATE TABLE Distribution (
  DistributionID INT PRIMARY KEY AUTO_INCREMENT,
  VictimID INT,
  ResourceID INT,
  Date DATE,
  Quantity INT,
  FOREIGN KEY (VictimID) REFERENCES Victim(VictimID) ON DELETE CASCADE,
  FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID) ON DELETE CASCADE
);
```

5. Volunteer Table

```
CREATE TABLE Volunteer (
  VolunteerID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100),
  Skill VARCHAR(100),
  Location VARCHAR(100),
  Availability BOOLEAN
);
```

6. Donor Table

```
CREATE TABLE Donor (
  DonorID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100),
  Contact VARCHAR(100),
  DonationType VARCHAR(50)
);
```

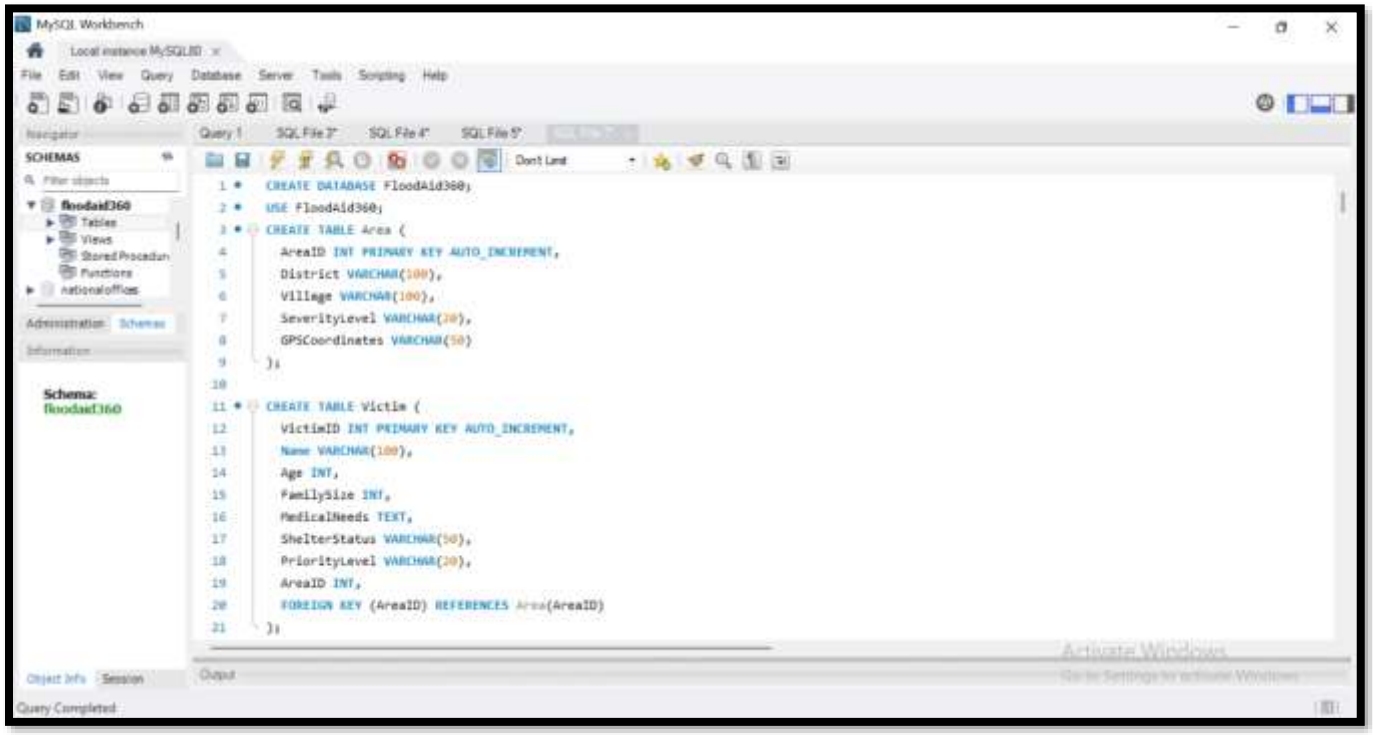
7. Donation Table

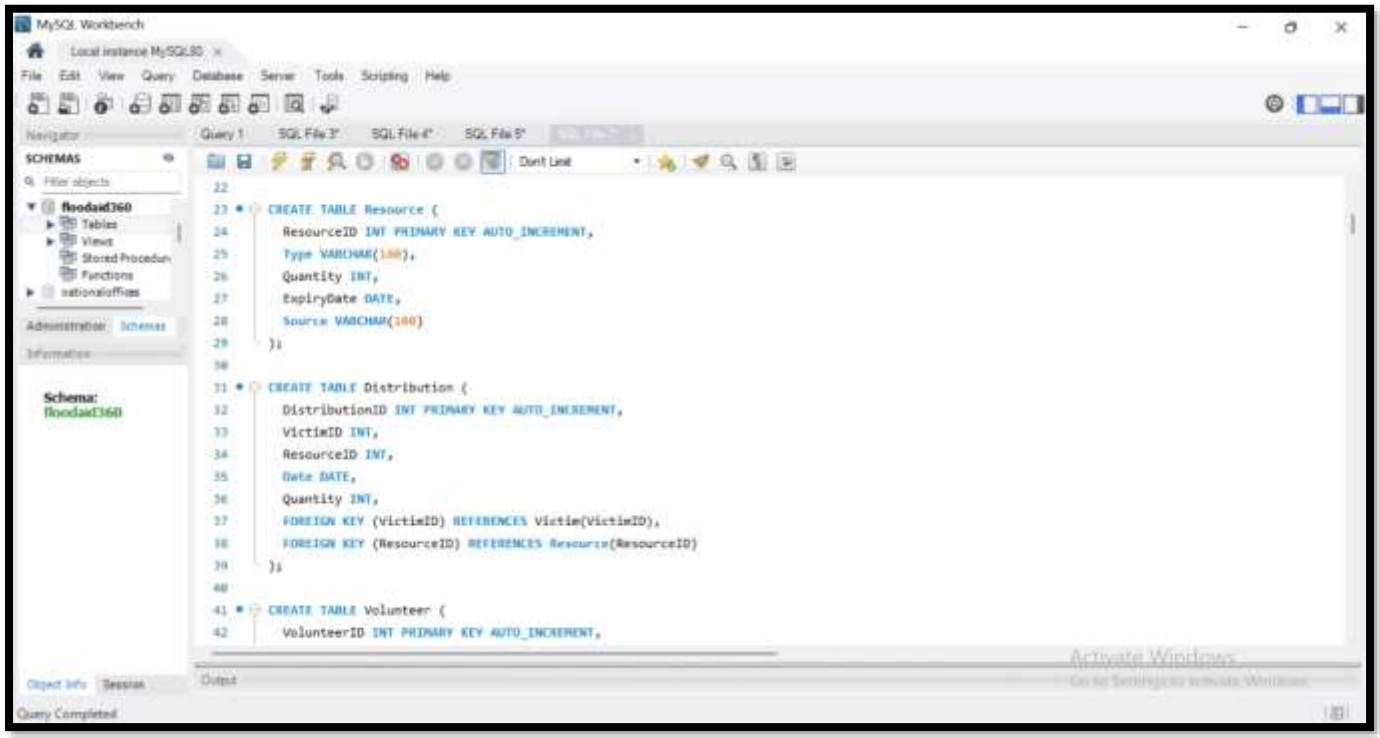
```
CREATE TABLE Donation (
  DonationID INT PRIMARY KEY AUTO_INCREMENT,
  DonorID INT,
  ResourceID INT,
  Amount INT,
  Date DATE,
  FOREIGN KEY (DonorID) REFERENCES Donor(DonorID) ON DELETE CASCADE,
  FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID) ON DELETE CASCADE
);
```

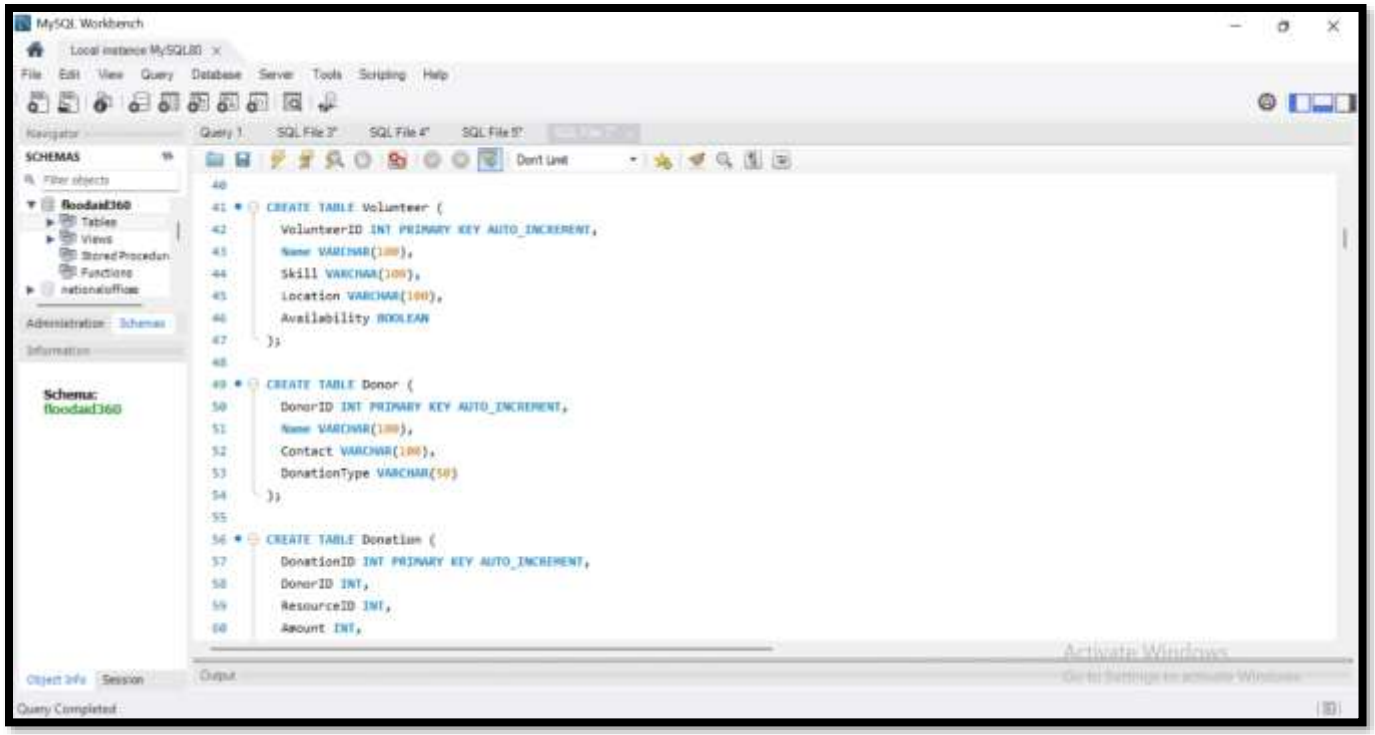
Final Relational Schema Summary

Table Name	Attributes
Area	AreaID, District, Village, SeverityLevel, GPSCoordinates
Victim	VictimID, Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID FK
Resource	ResourceID, Type, Quantity, ExpiryDate, Source
Distribution	DistributionID, VictimID FK, ResourceID FK, Date, Quantity
Volunteer	VolunteerID, Name, Skill, Location, Availability
Donor	DonorID, Name, Contact, DonationType
Donation	DonationID, DonorID FK, ResourceID FK, Amount, Date

Code:


MySQL Workbench
SCHEMAS
floodaid360
Schema:
floodaid360
CREATE DATABASE FloodAid360;
USE FloodAid360;
CREATE TABLE Area (
AreaID INT PRIMARY KEY AUTO_INCREMENT,
District VARCHAR(100),
Village VARCHAR(100),
SeverityLevel VARCHAR(20),
GPSCoordinates VARCHAR(50)
);
CREATE TABLE Victim (
VictimID INT PRIMARY KEY AUTO_INCREMENT,
Name VARCHAR(100),
Age INT,
FamilySize INT,
MedicalNeeds TEXT,
ShelterStatus VARCHAR(50),
PriorityLevel VARCHAR(20),
AreaID INT,
FOREIGN KEY (AreaID) REFERENCES Area(AreaID)
);
Activate Windows
Query Completed


MySQL Workbench
SCHEMAS
floodaid360
Schema:
floodaid360
CREATE TABLE Resource (
ResourceID INT PRIMARY KEY AUTO_INCREMENT,
Type VARCHAR(100),
Quantity INT,
ExpiryDate DATE,
Source VARCHAR(100)
);
CREATE TABLE Distribution (
DistributionID INT PRIMARY KEY AUTO_INCREMENT,
VictimID INT,
ResourceID INT,
Date DATE,
Quantity INT,
FOREIGN KEY (VictimID) REFERENCES Victim(VictimID),
FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID)
);
CREATE TABLE Volunteer (
VolunteerID INT PRIMARY KEY AUTO_INCREMENT,
Activate Windows
Query Completed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Query 1 SQL File 3* SQL File 4* SQL File 5*
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Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
Dont Limit
CREATE TABLE Volunteer (
VolunteerID INT PRIMARY KEY AUTO_INCREMENT,
Name VARCHAR(100),
Skill VARCHAR(100),
Location VARCHAR(100),
Availability BOOLEAN
);
CREATE TABLE Donor (
DonorID INT PRIMARY KEY AUTO_INCREMENT,
Name VARCHAR(100),
Contact VARCHAR(100),
DonationType VARCHAR(50)
);
CREATE TABLE Donation (
DonationID INT PRIMARY KEY AUTO_INCREMENT,
DonorID INT,
ResourceID INT,
Amount INT,
Activate Windows
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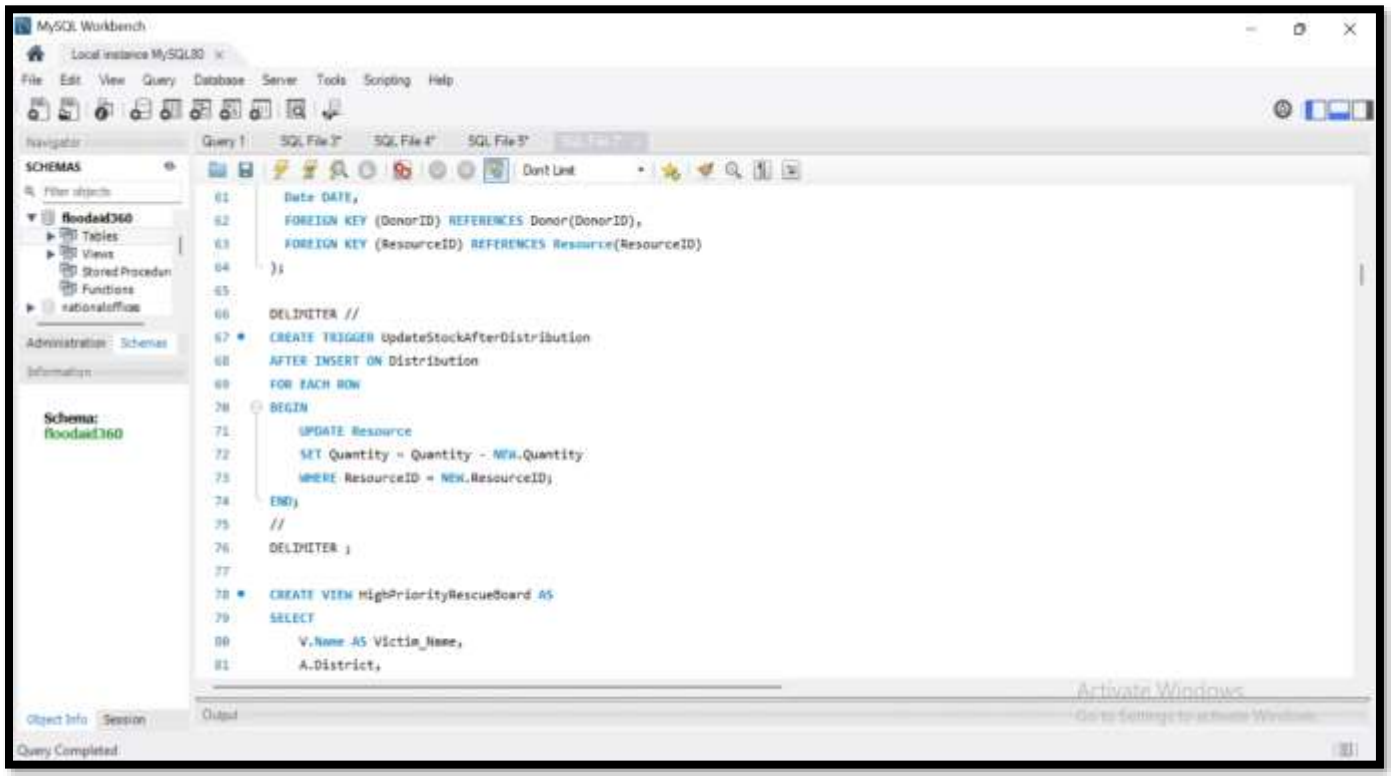
Query Completed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Schema:
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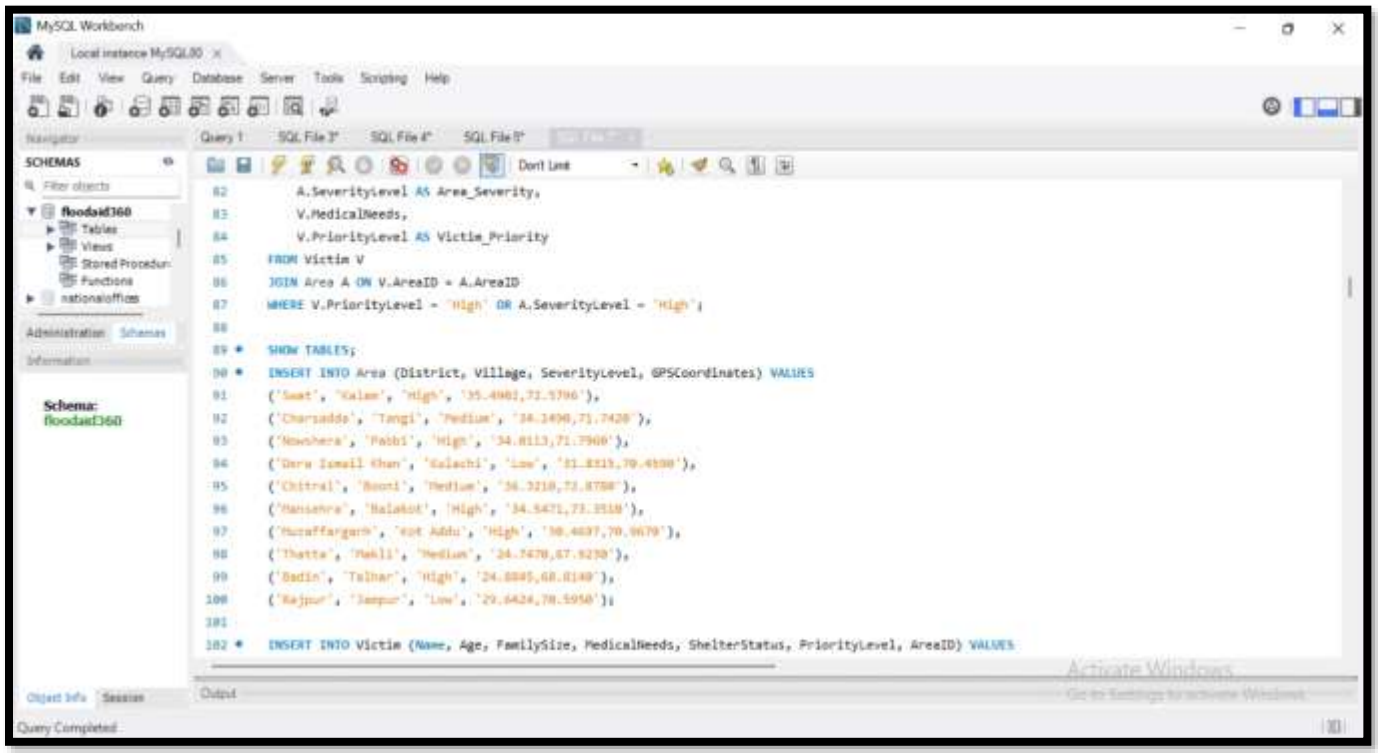
Dont Limit
Date DATE,
FOREIGN KEY (DonorID) REFERENCES Donor(DonorID),
FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID)
);
DELIMITER //
CREATE TRIGGER UpdateStockAfterDistribution
AFTER INSERT ON Distribution
FOR EACH ROW
BEGIN
UPDATE Resource
SET Quantity = Quantity - NEW.Quantity
WHERE ResourceID = NEW.ResourceID;
END;
//
DELIMITER ;
CREATE VIEW HighPriorityRescueBoard AS
SELECT
V.Name AS Victim_Name,
A.District,
Activate Windows
Output
Query Completed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Query 1
SQL File 3*
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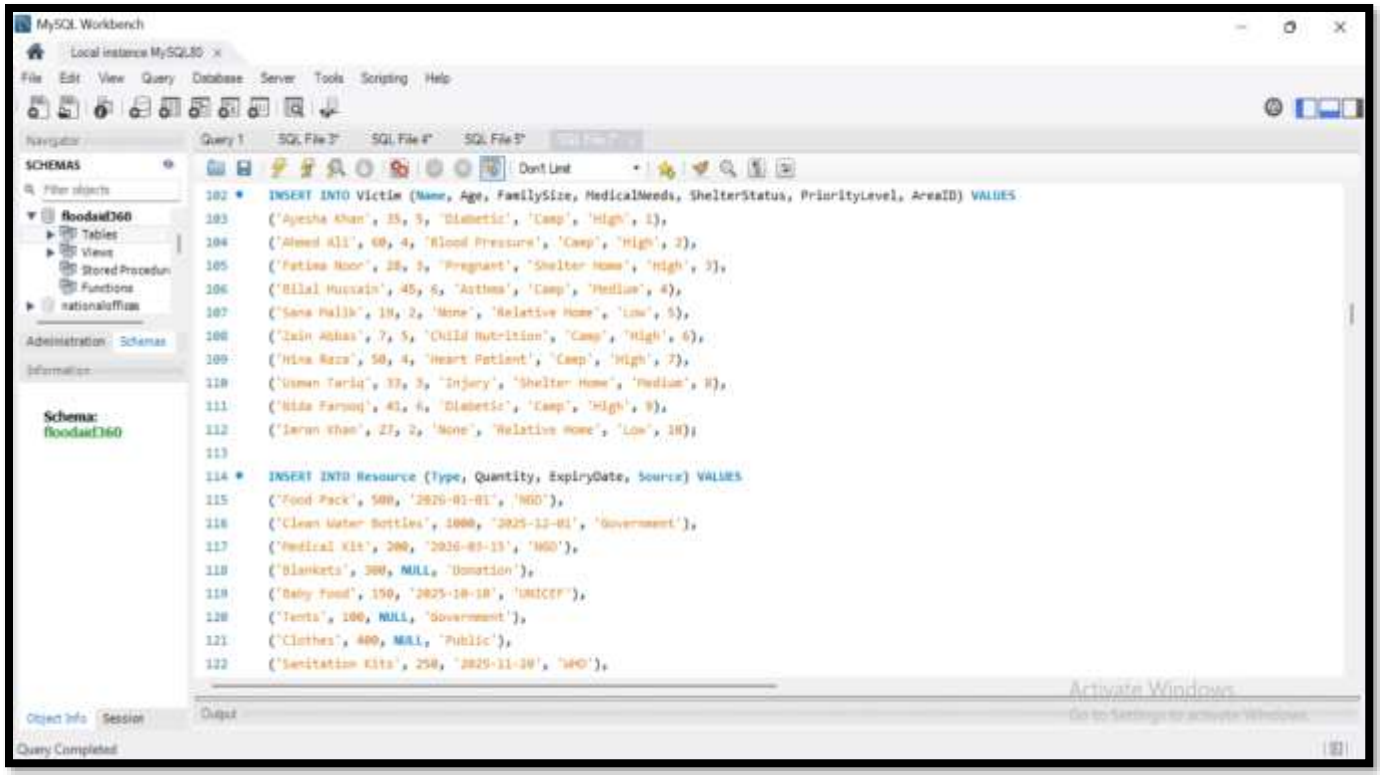
SQL File 5*
Don't Limit
A.SeverityLevel AS Area_Severity,
V.MedicalNeeds,
V.PriorityLevel AS Victim_Priority
FROM Victim V
JOIN Area A ON V.AreaID = A.AreaID
WHERE V.PriorityLevel = 'High' OR A.SeverityLevel = 'High';
SHOW TABLES;
INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES
('Swat', 'Kalam', 'High', '35.4981,72.5796'),
('Charsadda', 'Tangi', 'Medium', '34.1490,71.7420'),
('Nowshera', 'Pabbi', 'High', '34.0113,71.7960'),
('Dera Ismail Khan', 'Kulachi', 'Low', '31.8319,70.4500'),
('Chitral', 'Booni', 'Medium', '36.3210,72.6708'),
('Mansehra', 'Balakot', 'High', '34.5471,73.3510'),
('Muzaffargarh', 'Kot Addu', 'High', '30.4697,70.9670'),
('Thatta', 'Makli', 'Medium', '24.7470,67.9230'),
('Badin', 'Talhar', 'High', '24.8845,68.8140'),
('Rajpur', 'Jampur', 'Low', '29.6424,70.5950');
INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID) VALUES
Activate Windows
Output
Query Completed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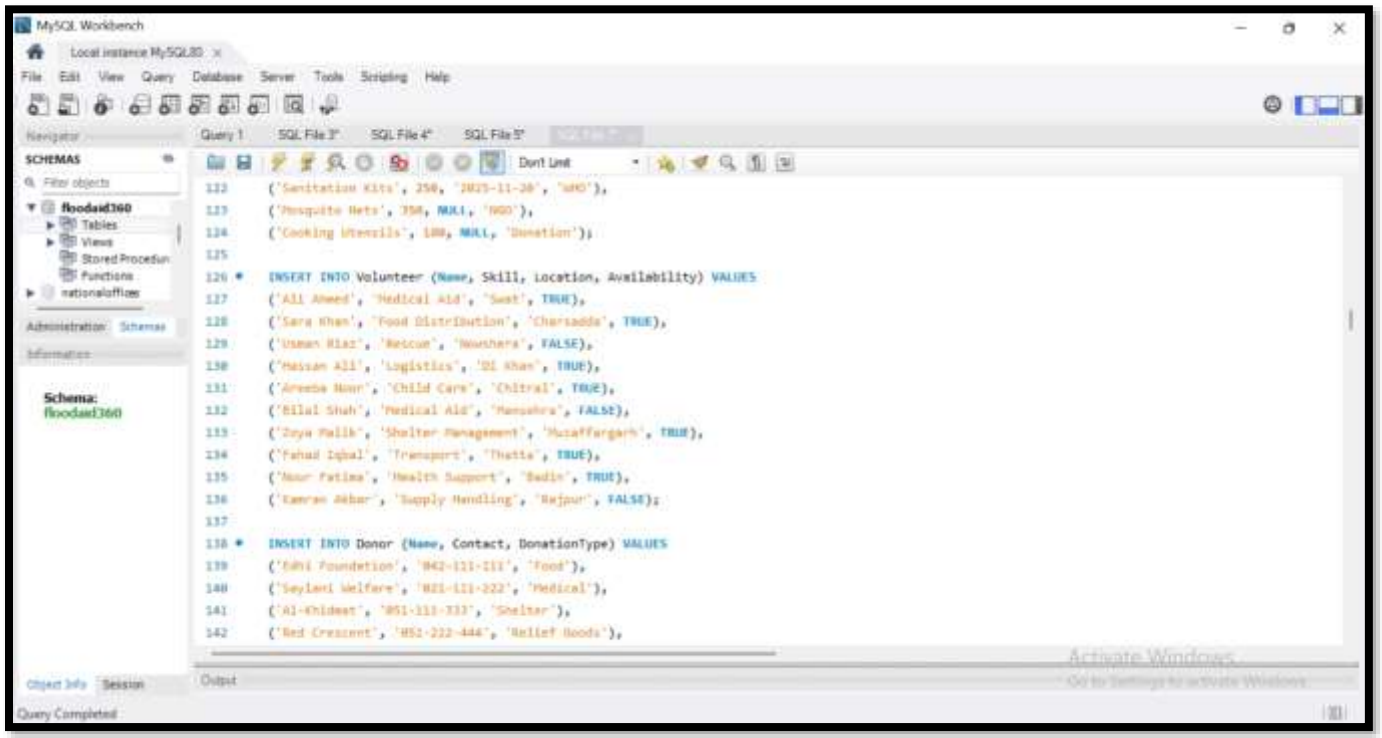
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
Don't Limit
INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID) VALUES
('Ayesha Khan', 35, 5, 'Diabetic', 'Camp', 'High', 1),
('Ahmed Ali', 60, 4, 'Blood Pressure', 'Camp', 'High', 2),
('Fatima Noor', 28, 3, 'Pregnant', 'Shelter Home', 'High', 3),
('Bilal Hussain', 45, 6, 'Asthma', 'Camp', 'Medium', 4),
('Sana Malik', 19, 2, 'None', 'Relative Home', 'Low', 5),
('Zain Abbas', 7, 5, 'Child Nutrition', 'Camp', 'High', 6),
('Hina Raza', 50, 4, 'Heart Patient', 'Camp', 'High', 7),
('Usman Tariq', 33, 3, 'Injury', 'Shelter Home', 'Medium', 8),
('Nida Farooq', 41, 6, 'Diabetic', 'Camp', 'High', 9),
('Imran Khan', 27, 2, 'None', 'Relative Home', 'Low', 10);
INSERT INTO Resource (Type, Quantity, ExpiryDate, Source) VALUES
('Food Pack', 500, '2026-01-01', 'NGO'),
('Clean Water Bottles', 1000, '2025-12-01', 'Government'),
('Medical Kit', 200, '2026-03-15', 'NGO'),
('Blankets', 300, NULL, 'Donation'),
('Baby Food', 150, '2025-10-10', 'UNICEF'),
('Tents', 100, NULL, 'Government'),
('Clothes', 400, NULL, 'Public'),
('Sanitation Kits', 250, '2025-11-20', 'WHO'),
Activate Windows
Output
Query Completed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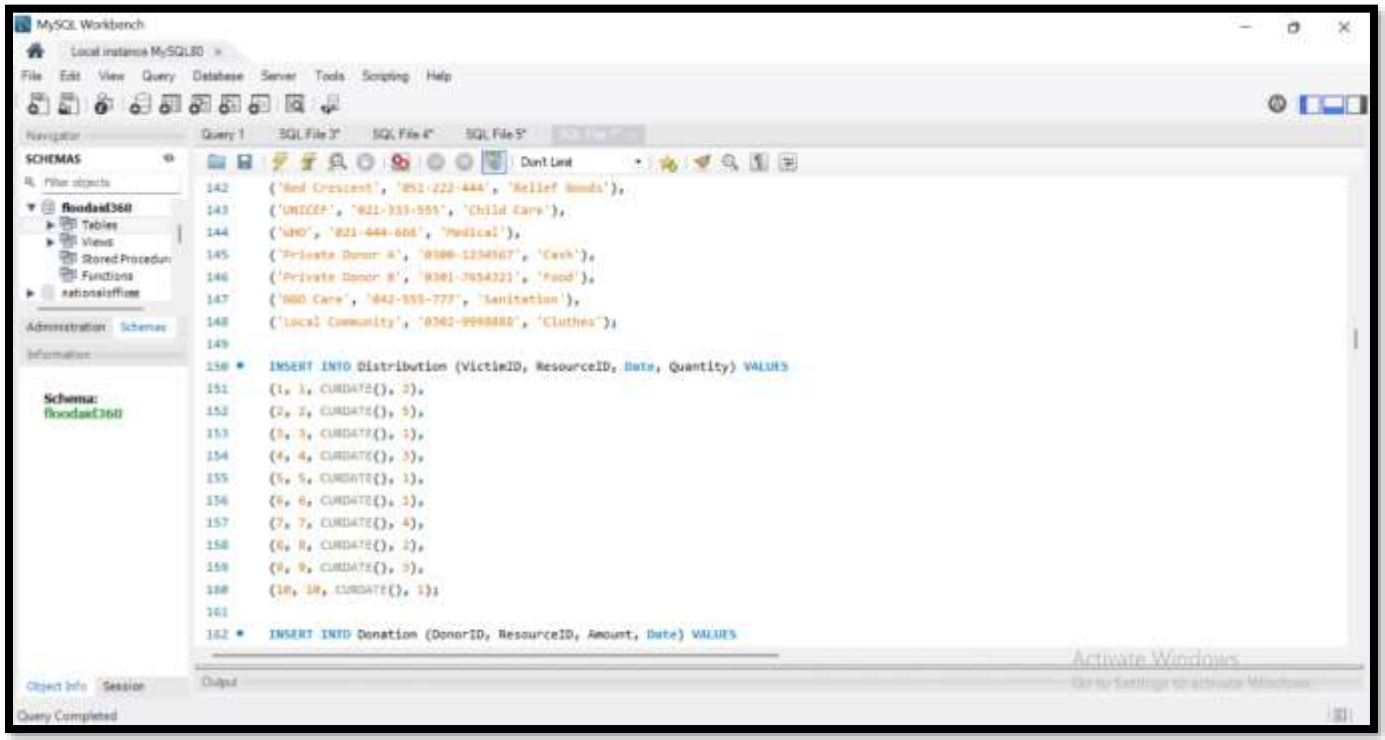
('Sanitation Kits', 250, '2025-11-20', 'WHO'),
('Mosquito Nets', 350, NULL, 'NGO'),
('Cooking Utensils', 180, NULL, 'Donation');
INSERT INTO Volunteer (Name, Skill, Location, Availability) VALUES
('Ali Ahmed', 'Medical Aid', 'Swat', TRUE),
('Sara Khan', 'Food Distribution', 'Charsadda', TRUE),
('Usman Riaz', 'Rescue', 'Nowshera', FALSE),
('Hassan Ali', 'Logistics', 'DI Khan', TRUE),
('Areeba Noor', 'Child Care', 'Chitral', TRUE),
('Bilal Shah', 'Medical Aid', 'Mansehra', FALSE),
('Zoya Malik', 'Shelter Management', 'Muzaffargarh', TRUE),
('Fahad Iqbal', 'Transport', 'Thatta', TRUE),
('Noor Fatima', 'Health Support', 'Badin', TRUE),
('Emaan Akbar', 'Supply Handling', 'Rajpur', FALSE);
INSERT INTO Donor (Name, Contact, DonationType) VALUES
('Edhi Foundation', '042-111-111', 'Food'),
('Seylani Welfare', '021-111-222', 'Medical'),
('Al-Khidmat', '051-111-333', 'Shelter'),
('Red Crescent', '051-222-444', 'Relief Goods'),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nationalofficer
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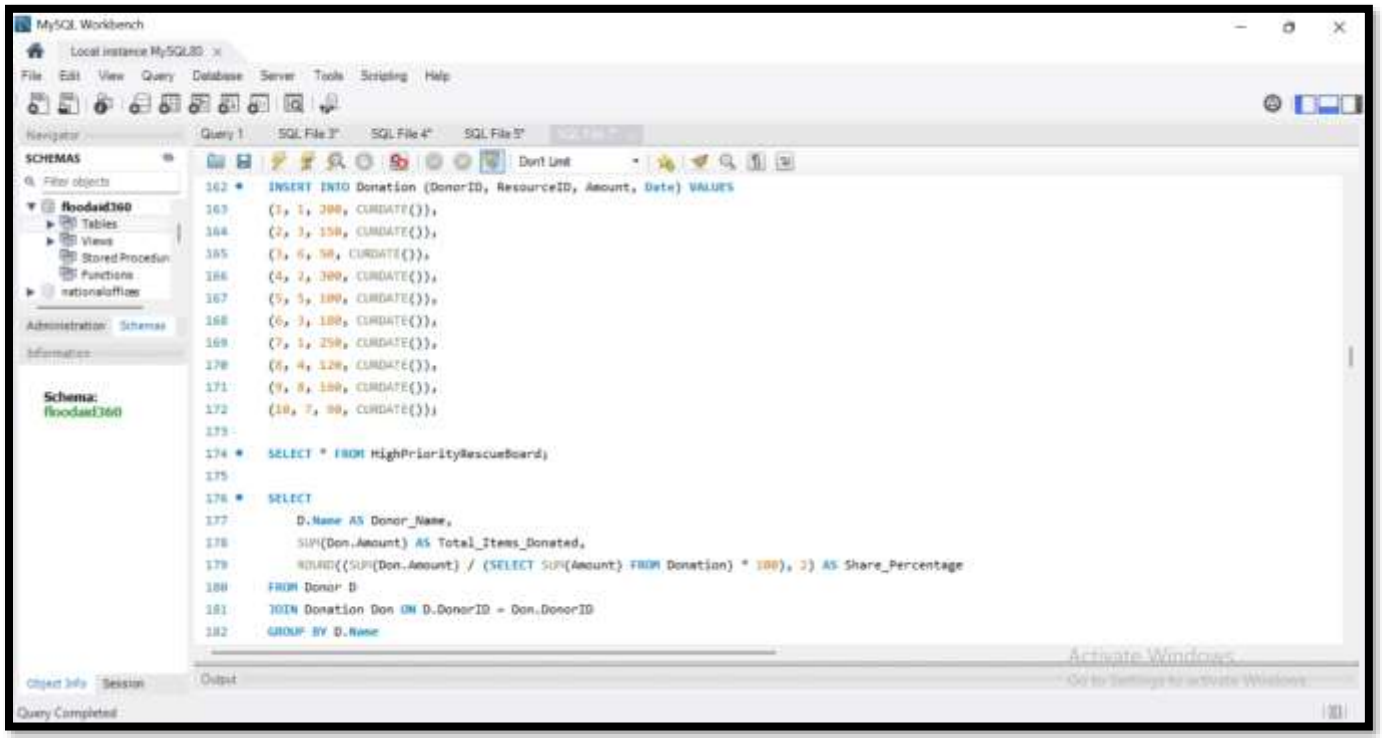
floodaid360
Object Info Session
Output
Query Completed
('Red Crescent', '051-222-444', 'Relief Goods'),
('UNICEF', '021-333-555', 'Child Care'),
('WHO', '021-444-666', 'Medical'),
('Private Donor A', '0300-1234567', 'Cash'),
('Private Donor B', '0301-7654321', 'Food'),
('NGO Care', '042-555-777', 'Sanitation'),
('Local Community', '0362-9998888', 'Clothes');
INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity) VALUES
(1, 1, CURDATE(), 2),
(2, 2, CURDATE(), 5),
(3, 3, CURDATE(), 1),
(4, 4, CURDATE(), 3),
(5, 5, CURDATE(), 1),
(6, 6, CURDATE(), 1),
(7, 7, CURDATE(), 4),
(8, 8, CURDATE(), 2),
(9, 9, CURDATE(), 3),
(10, 10, CURDATE(), 1);
INSERT INTO Donation (DonorID, ResourceID, Amount, Date) VALUES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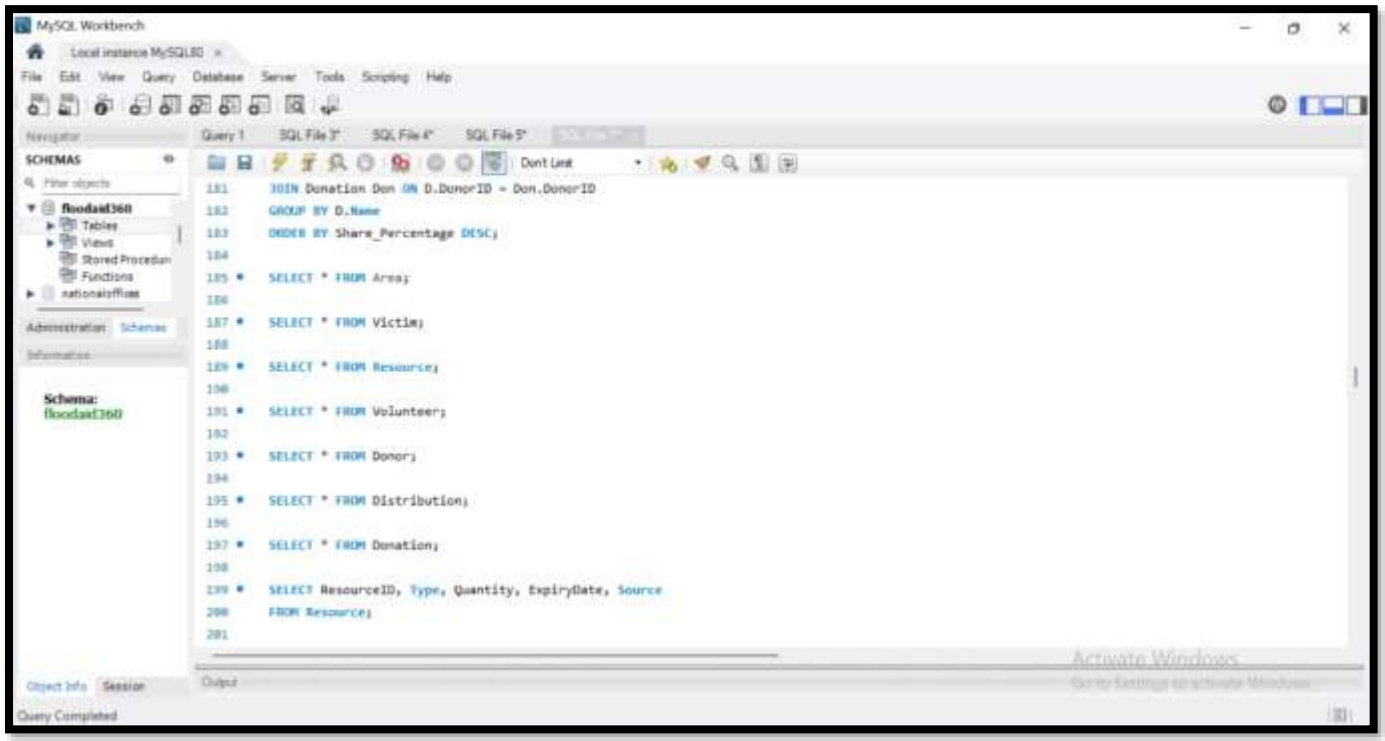
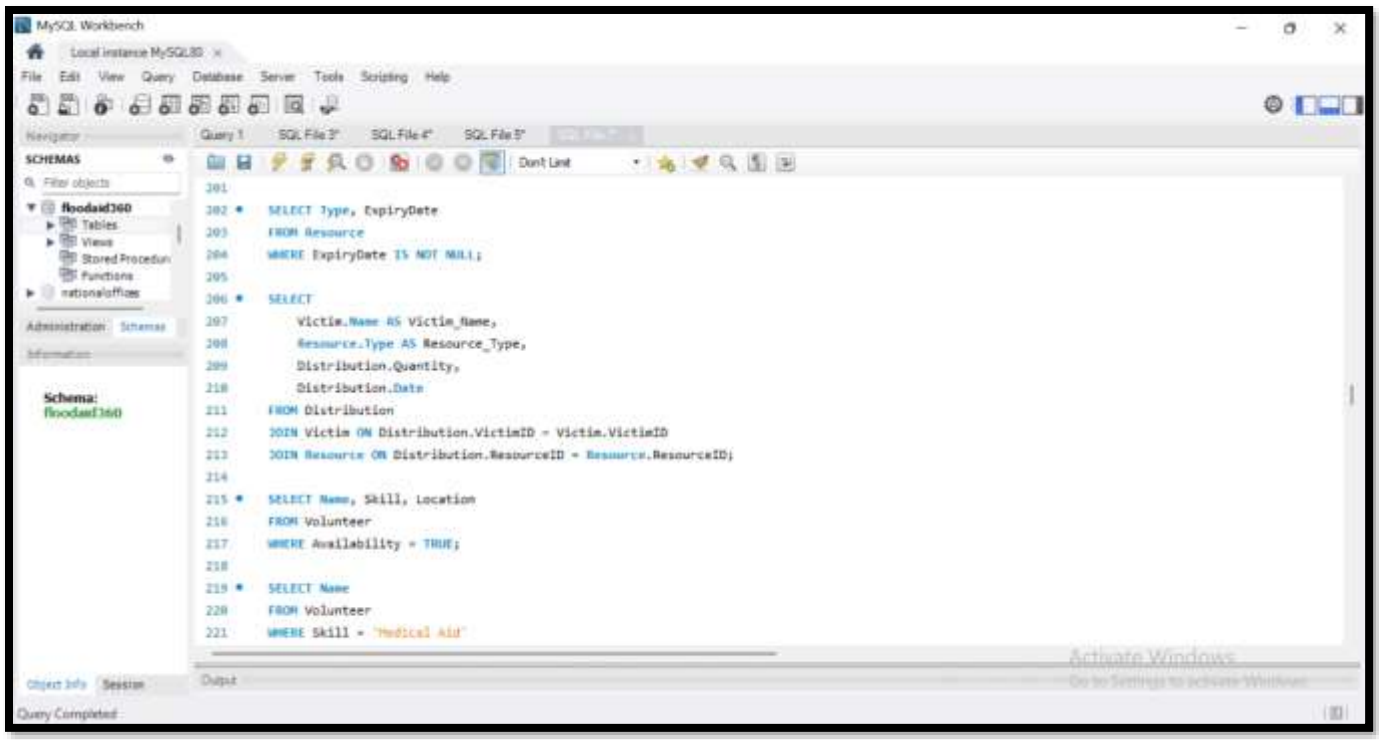
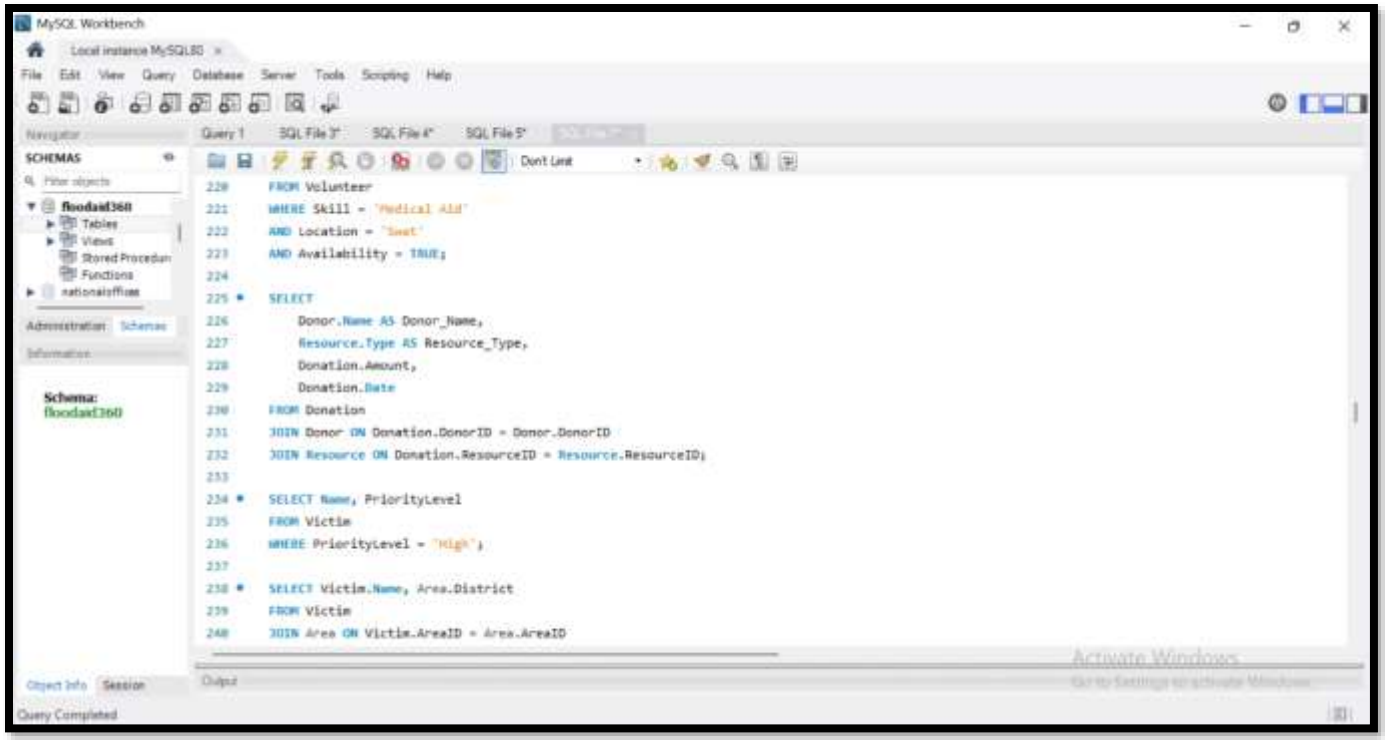
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
Object Info Session
Output
Query Completed
Activate Windows
Go to Settings to activate Windows.
162 • INSERT INTO Donation (DonorID, ResourceID, Amount, Date) VALUES
163 (1, 1, 300, CURDATE()),
164 (2, 3, 150, CURDATE()),
165 (3, 6, 50, CURDATE()),
166 (4, 2, 300, CURDATE()),
167 (5, 5, 100, CURDATE()),
168 (6, 3, 100, CURDATE()),
169 (7, 1, 250, CURDATE()),
170 (8, 4, 120, CURDATE()),
171 (9, 8, 100, CURDATE()),
172 (10, 7, 90, CURDATE());
173
174 • SELECT * FROM HighPriorityRescueBoard;
175
176 • SELECT
177 D.Name AS Donor_Name,
178 SUM(Don.Amount) AS Total_Items_Donated,
179 ROUND((SUM(Don.Amount) / (SELECT SUM(Amount) FROM Donation) * 100), 2) AS Share_Percentage
180 FROM Donor D
181 JOIN Donation Don ON D.DonorID = Don.DonorID
182 GROUP BY D.Name


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
Object Info Session
Output
Query Completed
Activate Windows
Go to Settings to activate Windows.
181 JOIN Donation Don ON D.DonorID = Don.DonorID
182 GROUP BY D.Name
183 ORDER BY Share_Percentage DESC;
184
185 • SELECT * FROM Area;
186
187 • SELECT * FROM Victim;
188
189 • SELECT * FROM Resource;
190
191 • SELECT * FROM Volunteer;
192
193 • SELECT * FROM Donor;
194
195 • SELECT * FROM Distribution;
196
197 • SELECT * FROM Donation;
198
199 • SELECT ResourceID, Type, Quantity, ExpiryDate, Source
200 FROM Resource;
201


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
rationaloffices
Administration Schemas
Schema:
floodaid360
Object Info Session
Don't Limit
201
202 • SELECT Type, ExpiryDate
203 FROM Resource
204 WHERE ExpiryDate IS NOT NULL;
205
206 • SELECT
207 Victim.Name AS Victim_Name,
208 Resource.Type AS Resource_Type,
209 Distribution.Quantity,
210 Distribution.Date
211 FROM Distribution
212 JOIN Victim ON Distribution.VictimID = Victim.VictimID
213 JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
214
215 • SELECT Name, Skill, Location
216 FROM Volunteer
217 WHERE Availability = TRUE;
218
219 • SELECT Name
220 FROM Volunteer
221 WHERE Skill = 'Medical Aid'
Output
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SCHEMAS
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Tables
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Functions
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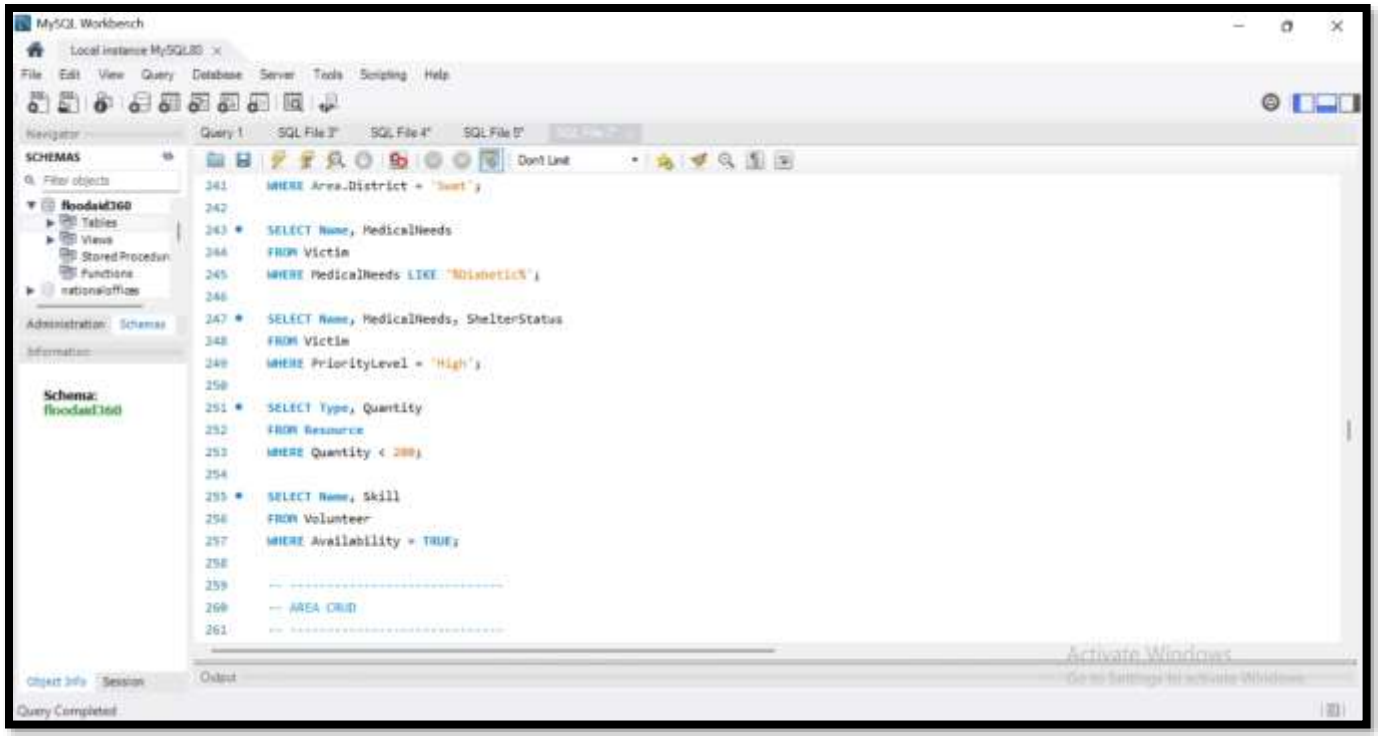
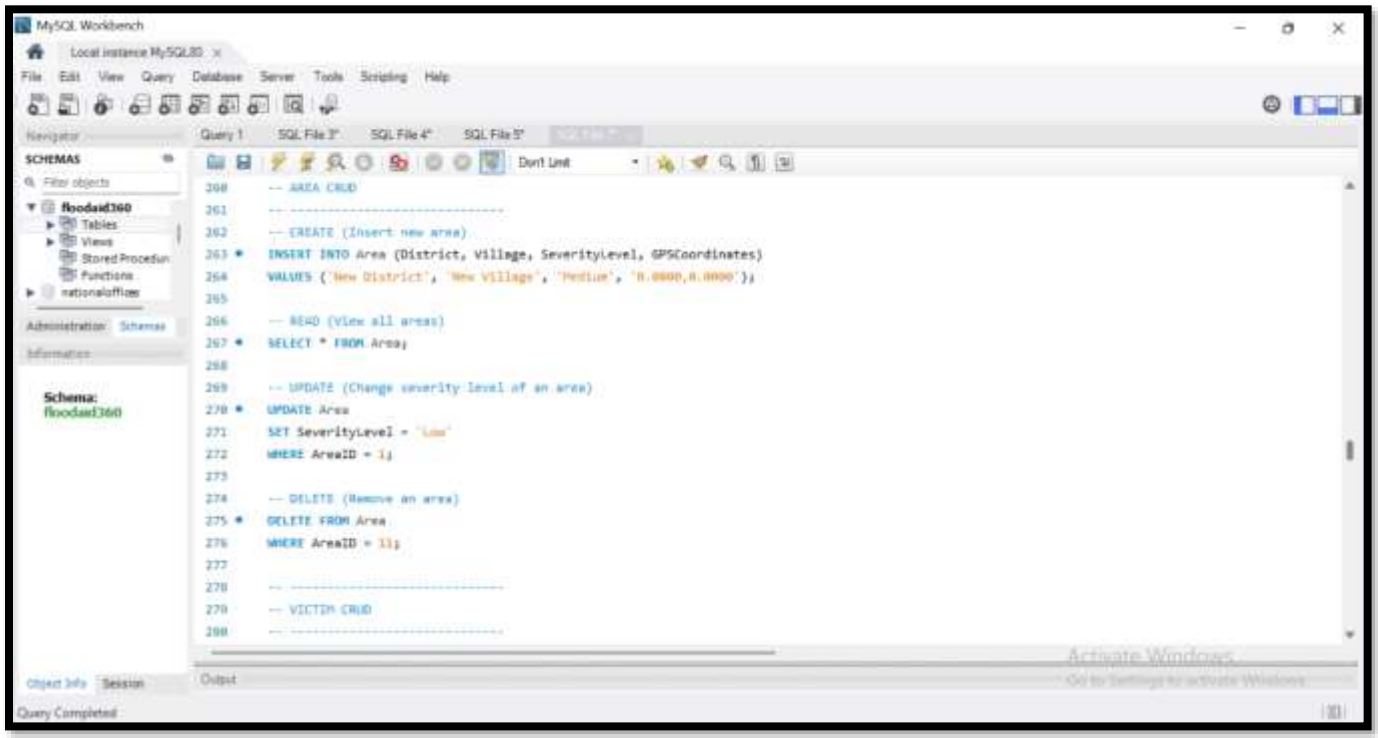
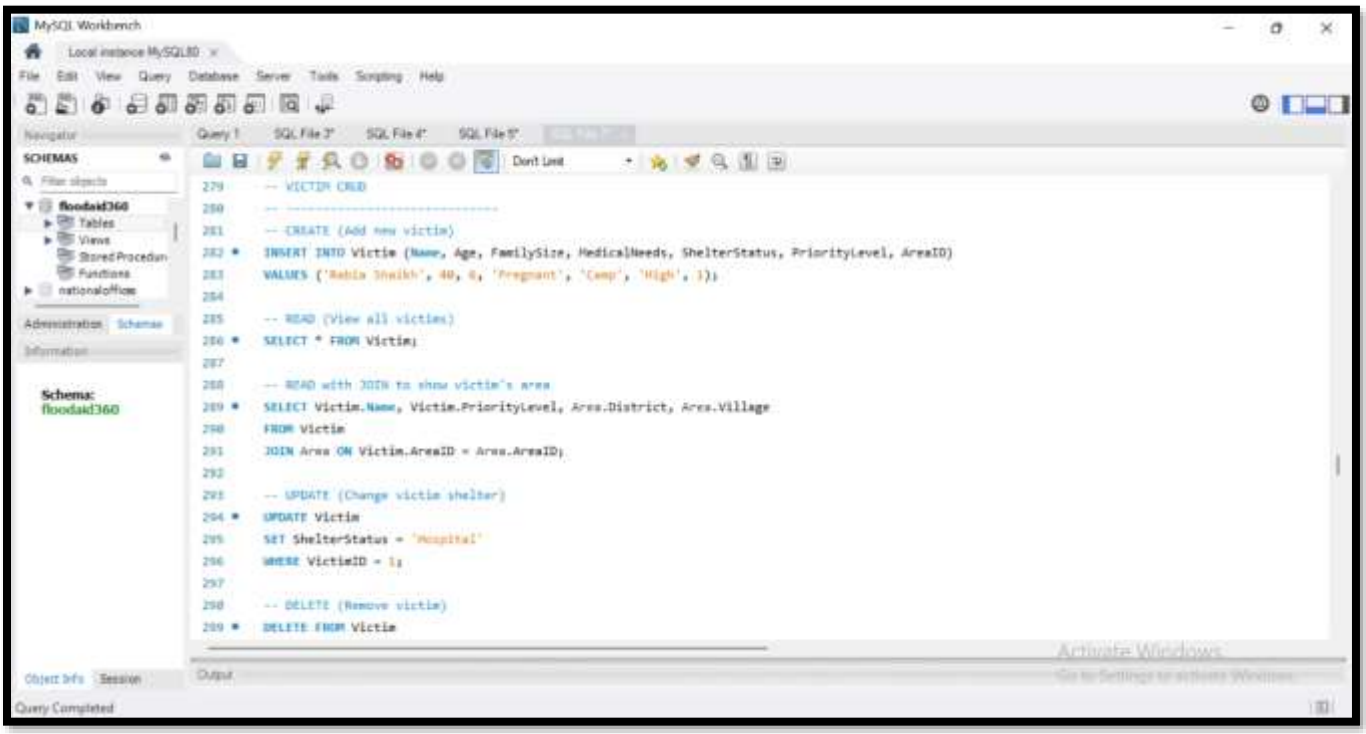
Administration
Schemas
Information
Schema:
floodaid360
Object Info
Session
Output
Query Completed
Don't Limit
FROM Volunteer
WHERE Skill = 'Medical Aid'
AND Location = 'Swat'
AND Availability = TRUE;
SELECT
Donor.Name AS Donor_Name,
Resource.Type AS Resource_Type,
Donation.Amount,
Donation.Date
FROM Donation
JOIN Donor ON Donation.DonorID = Donor.DonorID
JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
SELECT Name, PriorityLevel
FROM Victim
WHERE PriorityLevel = 'High';
SELECT Victim.Name, Area.District
FROM Victim
JOIN Area ON Victim.AreaID = Area.AreaID
Activate Windows


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
Don't Limit
241 WHERE Area.District = 'Swat';
242
243 SELECT Name, MedicalNeeds
244 FROM Victim
245 WHERE MedicalNeeds LIKE '%Diabetic%';
246
247 SELECT Name, MedicalNeeds, ShelterStatus
248 FROM Victim
249 WHERE PriorityLevel = 'High';
250
251 SELECT Type, Quantity
252 FROM Resource
253 WHERE Quantity < 200;
254
255 SELECT Name, Skill
256 FROM Volunteer
257 WHERE Availability = TRUE;
258
259 -- ------------------------------
260 -- AREA CRUD
261 -- ------------------------------
Activate Windows
Output
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
Don't Limit
260 -- AREA CRUD
261 -- ------------------------------
262 -- CREATE (Insert new area)
263 INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)
264 VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');
265
266 -- READ (View all areas)
267 SELECT * FROM Area;
268
269 -- UPDATE (Change severity level of an area)
270 UPDATE Area
271 SET SeverityLevel = 'Low'
272 WHERE AreaID = 1;
273
274 -- DELETE (Remove an area)
275 DELETE FROM Area
276 WHERE AreaID = 11;
277
278 -- ------------------------------
279 -- VICTIM CRUD
280 -- ------------------------------
Activate Windows
Output
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
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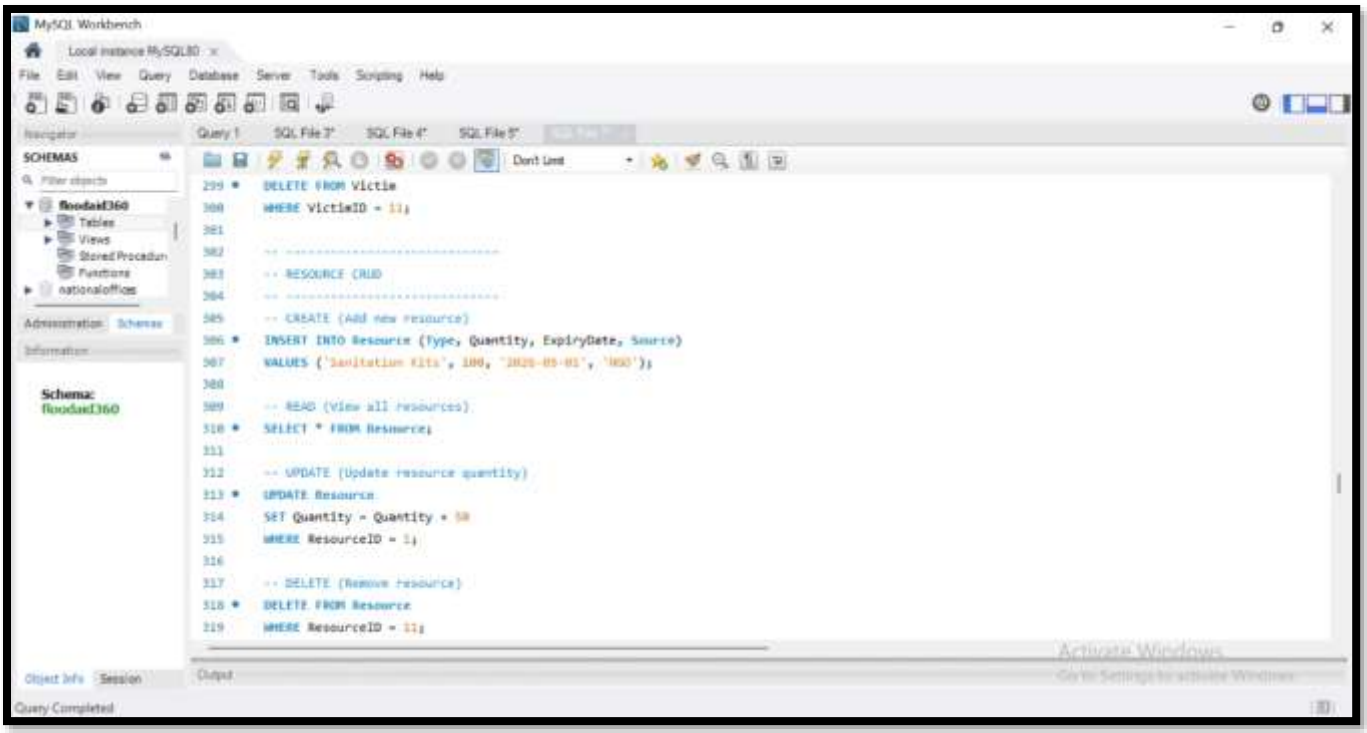
Stored Procedures
Functions
nationaloffice
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
Don't Limit
279 -- VICTIM CRUD
280 -- ----------------------------
281 -- CREATE (Add new victim)
282 INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)
283 VALUES ('Rabia Shaikh', 40, 6, 'Pregnant', 'Camp', 'High', 1);
284
285 -- READ (View all victims)
286 SELECT * FROM Victim;
287
288 -- READ with JOIN to show victim's area
289 SELECT Victim.Name, Victim.PriorityLevel, Area.District, Area.Village
290 FROM Victim
291 JOIN Area ON Victim.AreaID = Area.AreaID;
292
293 -- UPDATE (Change victim shelter)
294 UPDATE Victim
295 SET ShelterStatus = 'Hospital'
296 WHERE VictimID = 1;
297
298 -- DELETE (Remove victim)
299 DELETE FROM Victim
Output
Query Completed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floodaid360
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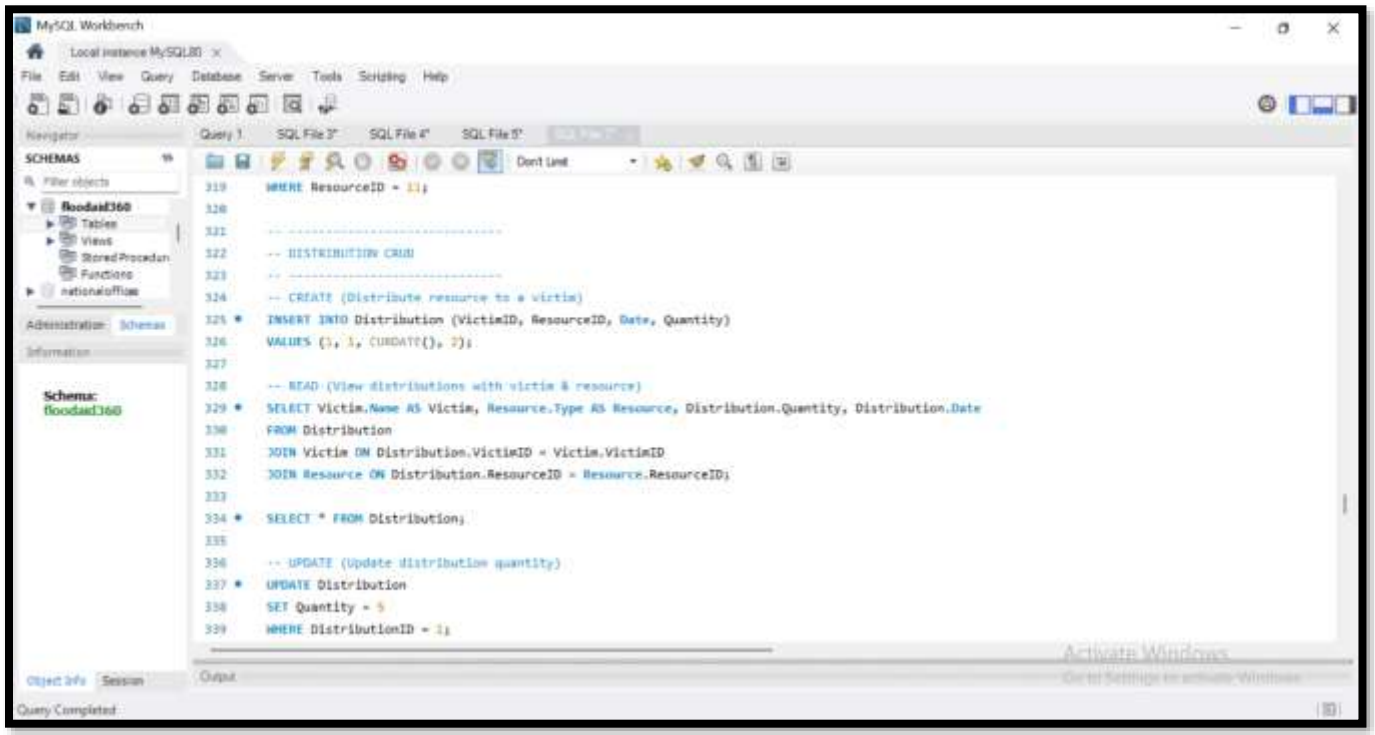
Stored Procedures
Functions
nationaloffice
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
Don't Limit
299 DELETE FROM Victim
300 WHERE VictimID = 11;
301
302 -- ----------------------------
303 -- RESOURCE CRUD
304 -- ----------------------------
305 -- CREATE (Add new resource)
306 INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
307 VALUES ('Sanitation Kits', 100, '2026-05-01', 'NGO');
308
309 -- READ (View all resources)
310 SELECT * FROM Resource;
311
312 -- UPDATE (Update resource quantity)
313 UPDATE Resource
314 SET Quantity = Quantity + 50
315 WHERE ResourceID = 1;
316
317 -- DELETE (Remove resource)
318 DELETE FROM Resource
319 WHERE ResourceID = 11;
Output
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
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nationaloffice
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Schema:
floodaid360
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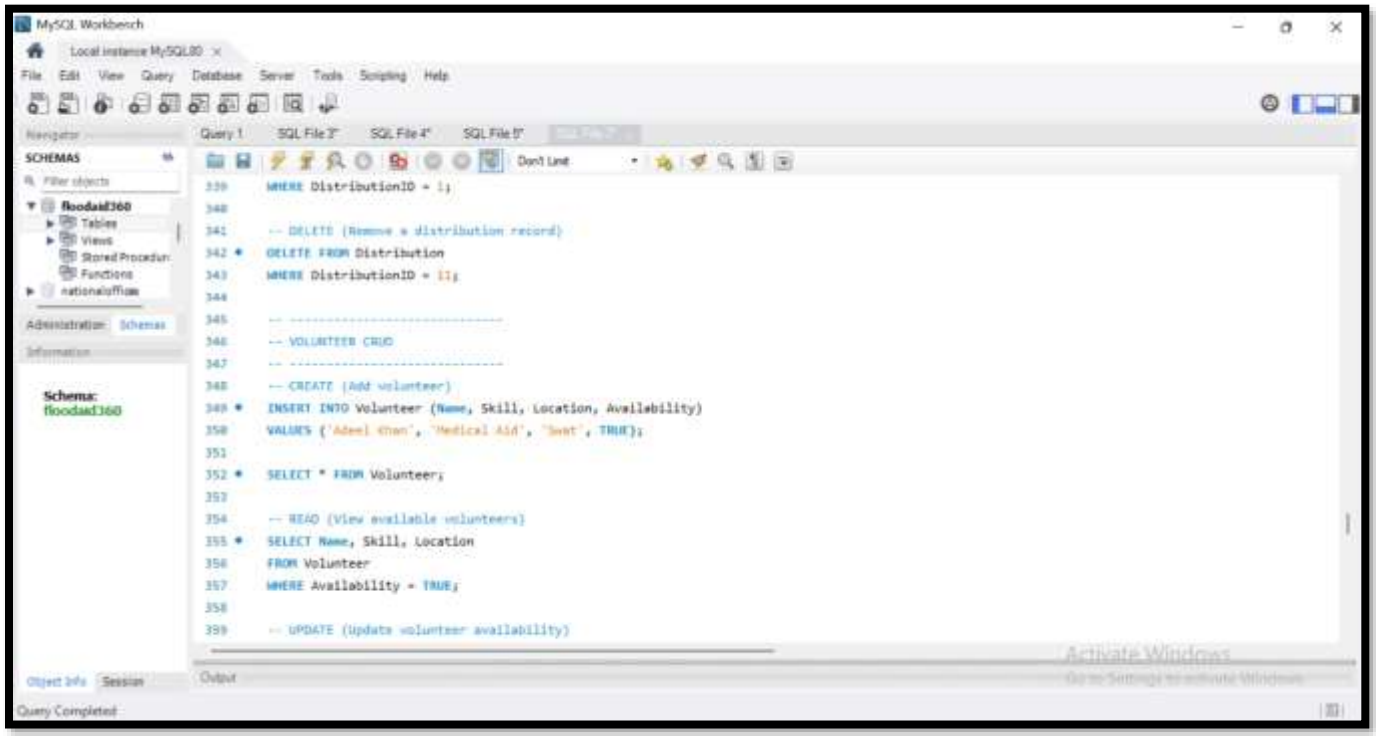
Output
Query Completed
WHERE ResourceID = 11;
-- ------------------------------
-- DISTRIBUTION CRUD
-- ------------------------------
-- CREATE (Distribute resource to a victim)
INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity)
VALUES (1, 1, CURDATE(), 2);
-- READ (View distributions with victim & resource)
SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
SELECT * FROM Distribution;
-- UPDATE (Update distribution quantity)
UPDATE Distribution
SET Quantity = 5
WHERE DistributionID = 1;
Activate Windows


MySQL Workbench
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File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
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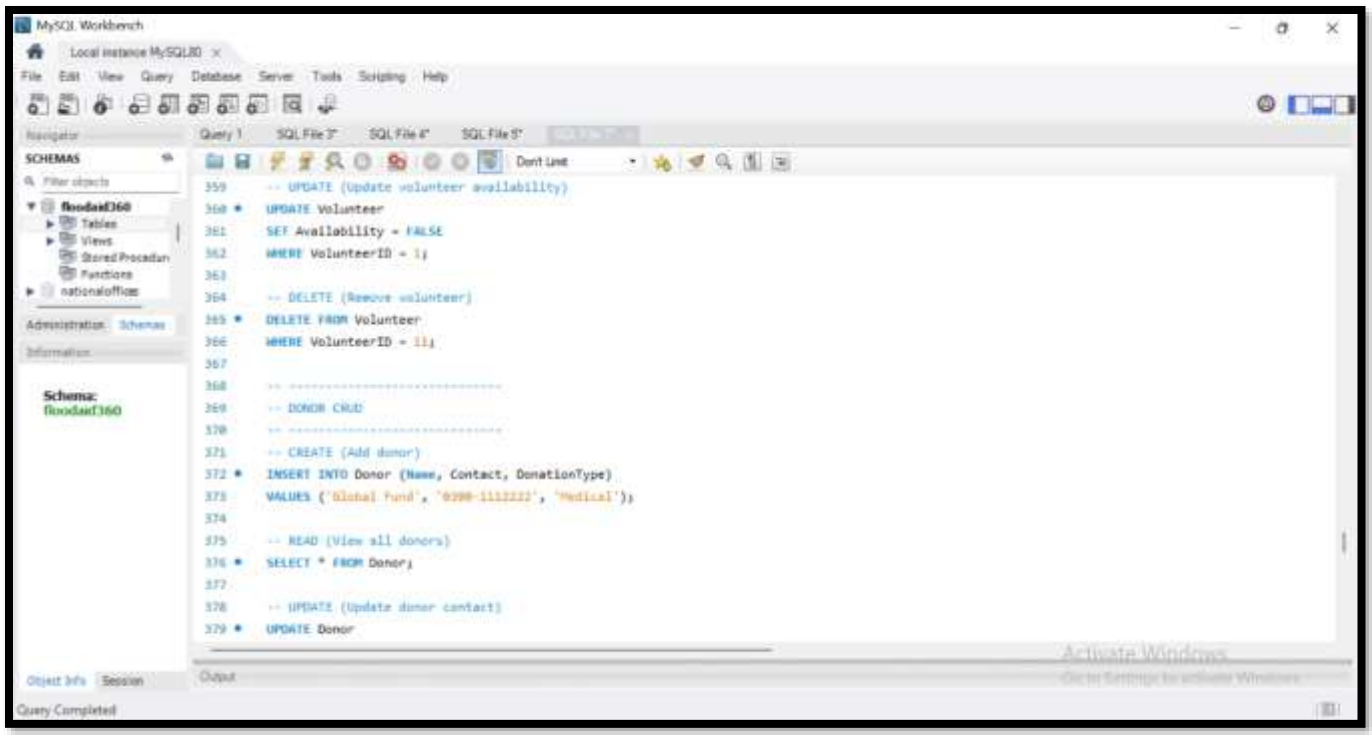
Output
Query Completed
WHERE DistributionID = 1;
-- DELETE (Remove a distribution record)
DELETE FROM Distribution
WHERE DistributionID = 11;
-- ------------------------------
-- VOLUNTEER CRUD
-- ------------------------------
-- CREATE (Add volunteer)
INSERT INTO Volunteer (Name, Skill, Location, Availability)
VALUES ('Adeel Khan', 'Medical Aid', 'Swat', TRUE);
SELECT * FROM Volunteer;
-- READ (View available volunteers)
SELECT Name, Skill, Location
FROM Volunteer
WHERE Availability = TRUE;
-- UPDATE (Update volunteer availability)
Activate Windows


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
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Functions
nationaloffice
Administration Schemas
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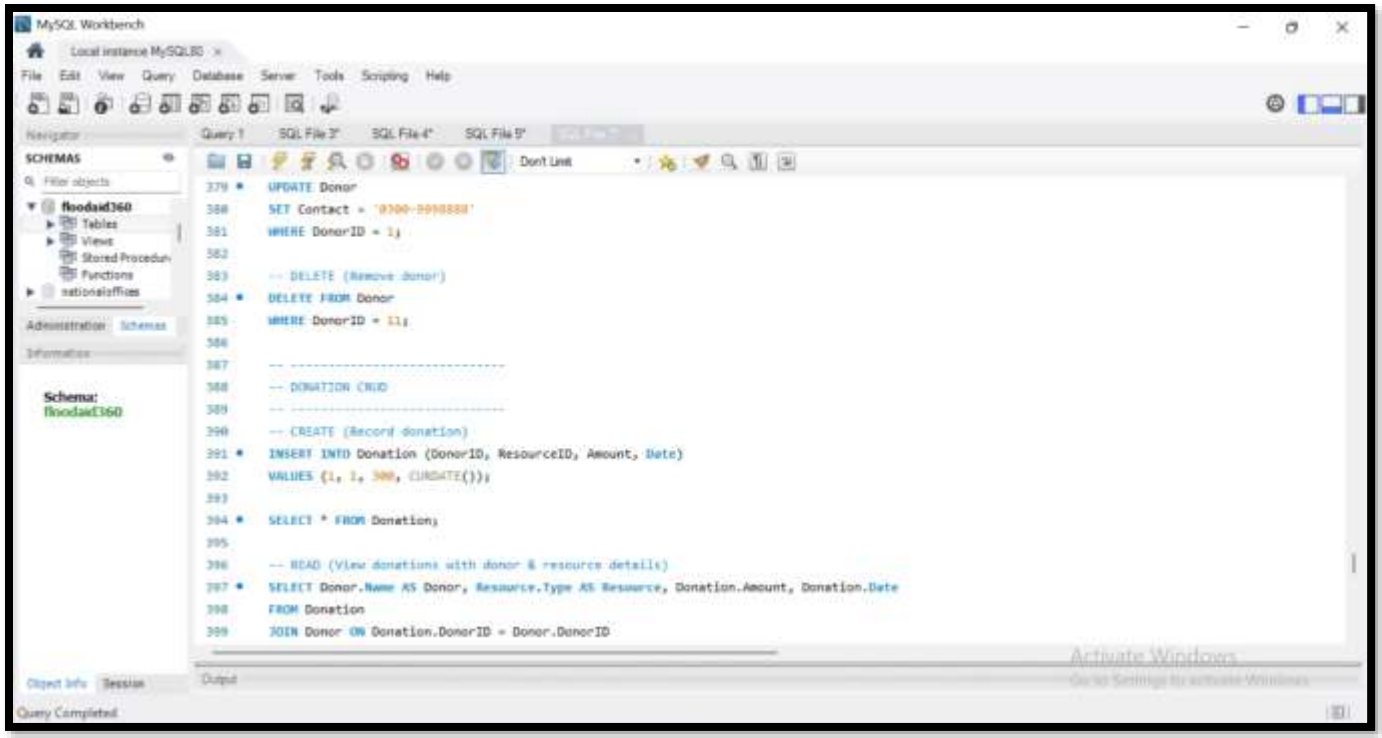
Schema:
floodaid360
Object Info Session
Output
Query Completed
359 -- UPDATE (Update volunteer availability)
360 • UPDATE Volunteer
361 SET Availability = FALSE
362 WHERE VolunteerID = 1;
363
364 -- DELETE (Remove volunteer)
365 • DELETE FROM Volunteer
366 WHERE VolunteerID = 11;
367
368 -- ------------------------------
369 -- DONOR CRUD
370 -- ------------------------------
371 -- CREATE (Add donor)
372 • INSERT INTO Donor (Name, Contact, DonationType)
373 VALUES ('Global Fund', '0300-1112222', 'Medical');
374
375 -- READ (View all donors)
376 • SELECT * FROM Donor;
377
378 -- UPDATE (Update donor contact)
379 • UPDATE Donor
Activate Windows
Go to Settings to activate Windows.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File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
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Tables
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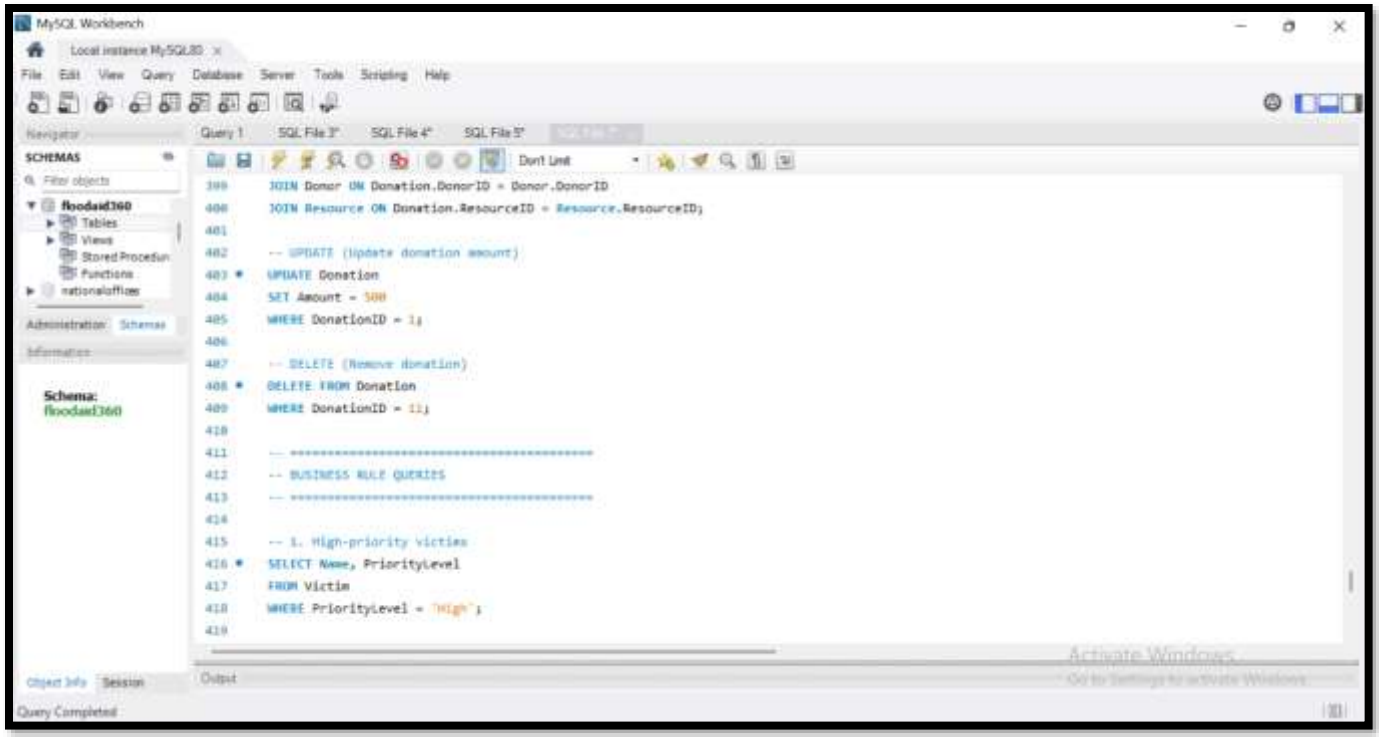
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
Object Info Session
Don't Limit
379 • UPDATE Donor
380 SET Contact = '0300-0000000'
381 WHERE DonorID = 1;
382
383 -- DELETE (Remove donor)
384 • DELETE FROM Donor
385 WHERE DonorID = 11;
386
387 -- ------------------------------
388 -- DONATION CRUD
389 -- ------------------------------
390 -- CREATE (Record donation)
391 • INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
392 VALUES (1, 1, 500, CURDATE());
393
394 • SELECT * FROM Donation;
395
396 -- READ (View donations with donor & resource details)
397 • SELECT Donor.Name AS Donor, Resource.Type AS Resource, Donation.Amount, Donation.Date
398 FROM Donation
399 JOIN Donor ON Donation.DonorID = Donor.DonorID
Output
Activate Windows
Query Completed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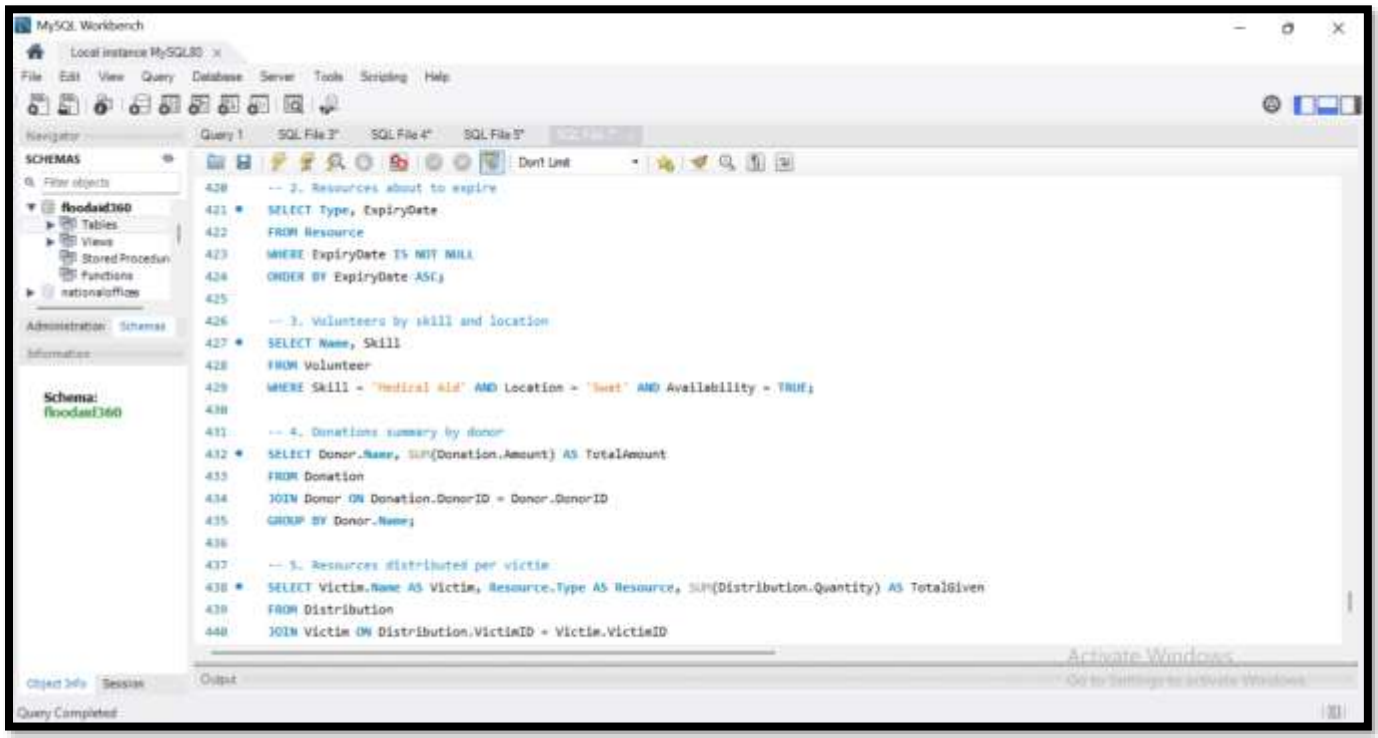
Schema:
floodaid360
JOIN Donor ON Donation.DonorID = Donor.DonorID
JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
-- UPDATE (Update donation amount)
UPDATE Donation
SET Amount = 500
WHERE DonationID = 1;
-- DELETE (Remove donation)
DELETE FROM Donation
WHERE DonationID = 11;
-- BUSINESS RULE QUERIES
-- 1. High-priority victims
SELECT Name, PriorityLevel
FROM Victim
WHERE PriorityLevel = 'High';
Activate Windows
Query Completed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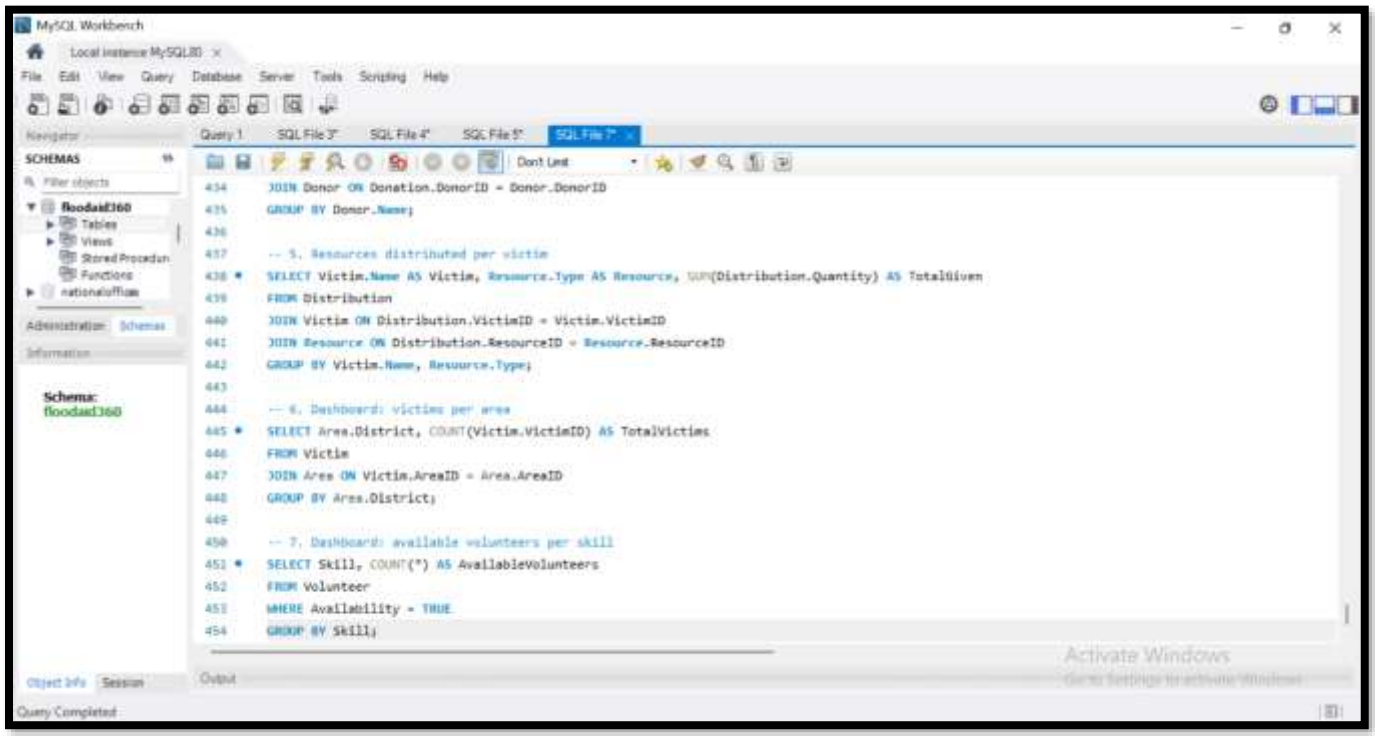
Stored Procedures
Functions
nationaloffice
Schema:
floodaid360
-- 2. Resources about to expire
SELECT Type, ExpiryDate
FROM Resource
WHERE ExpiryDate IS NOT NULL
ORDER BY ExpiryDate ASC;
-- 3. Volunteers by skill and location
SELECT Name, Skill
FROM Volunteer
WHERE Skill = 'Medical Aid' AND Location = 'Swat' AND Availability = TRUE;
-- 4. Donations summary by donor
SELECT Donor.Name, SUM(Donation.Amount) AS TotalAmount
FROM Donation
JOIN Donor ON Donation.DonorID = Donor.DonorID
GROUP BY Donor.Name;
-- 5. Resources distributed per victim
SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
Activate Windows
Query Completed


MySQL Workbench
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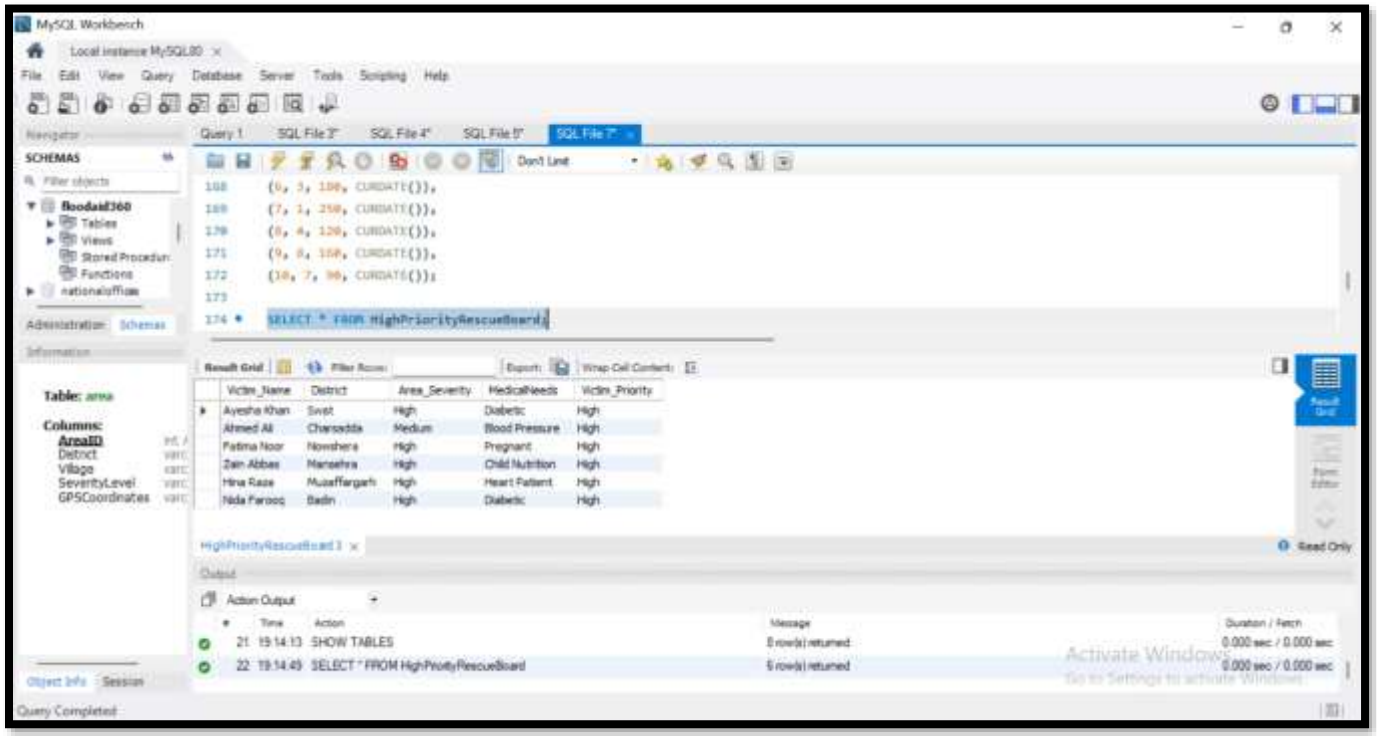
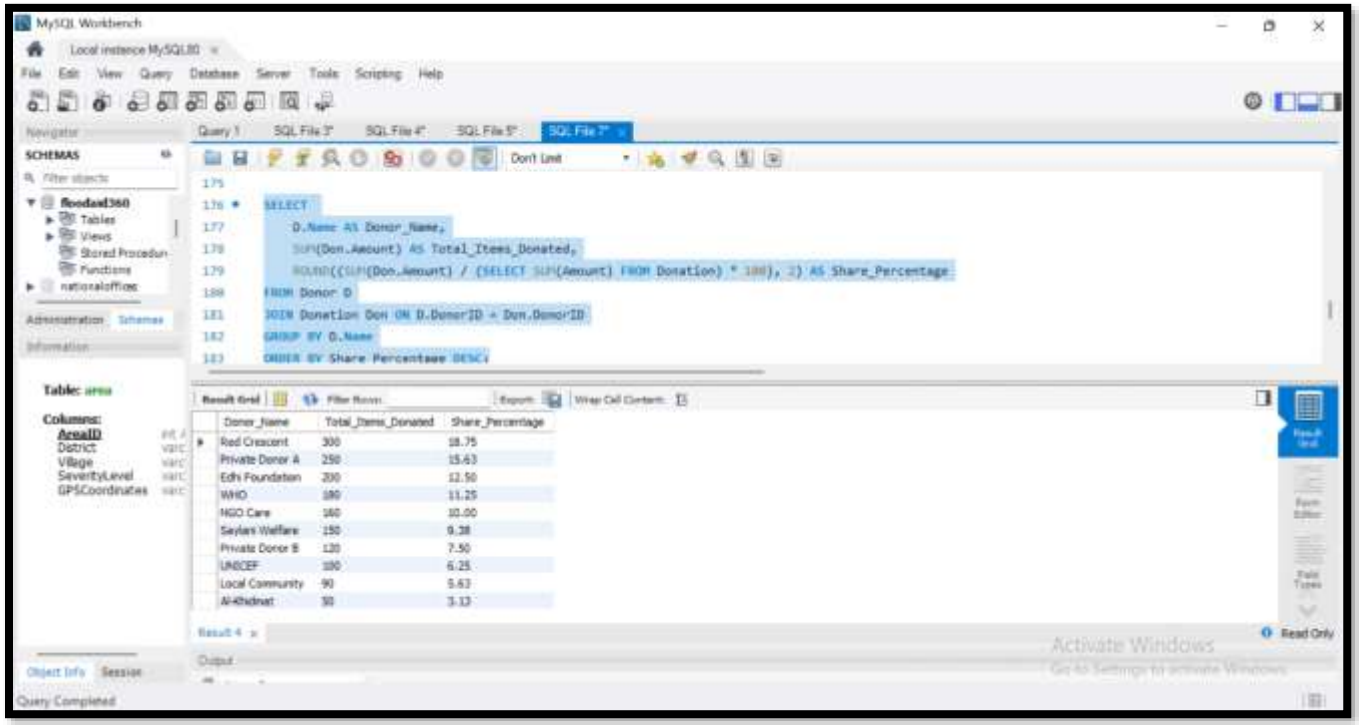
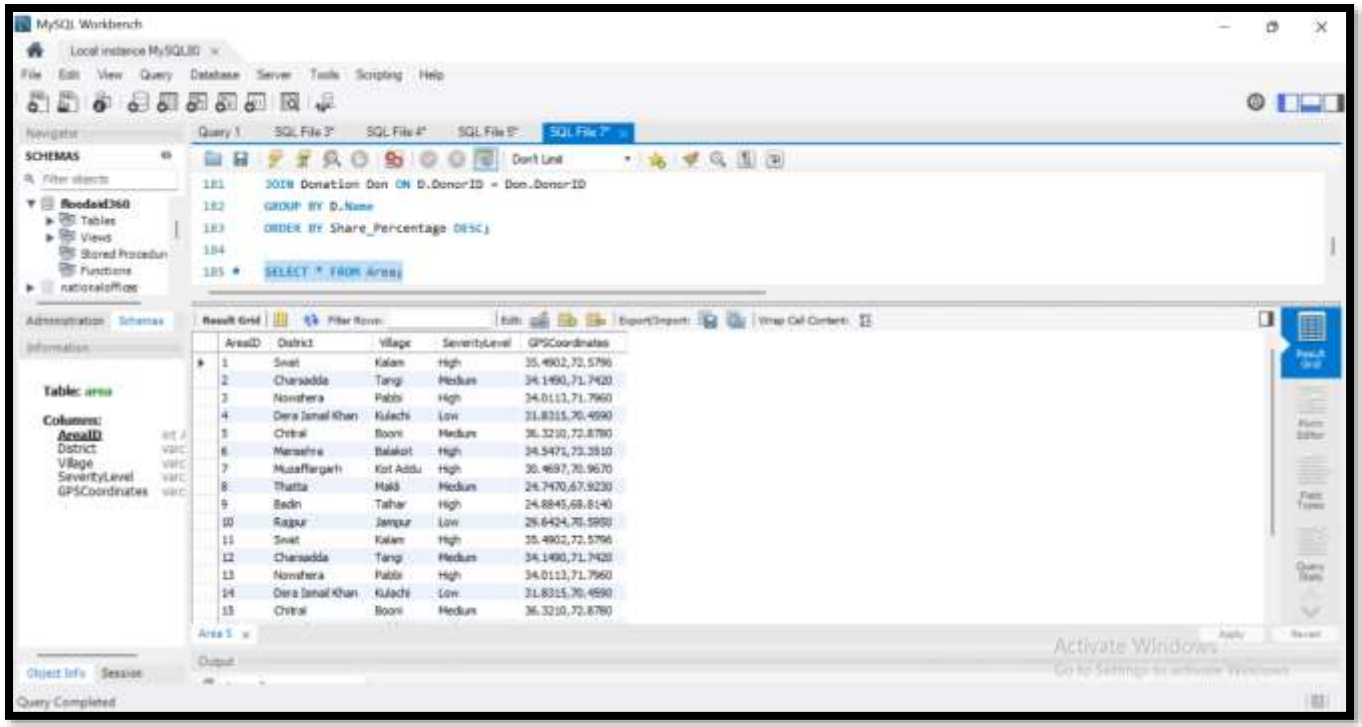
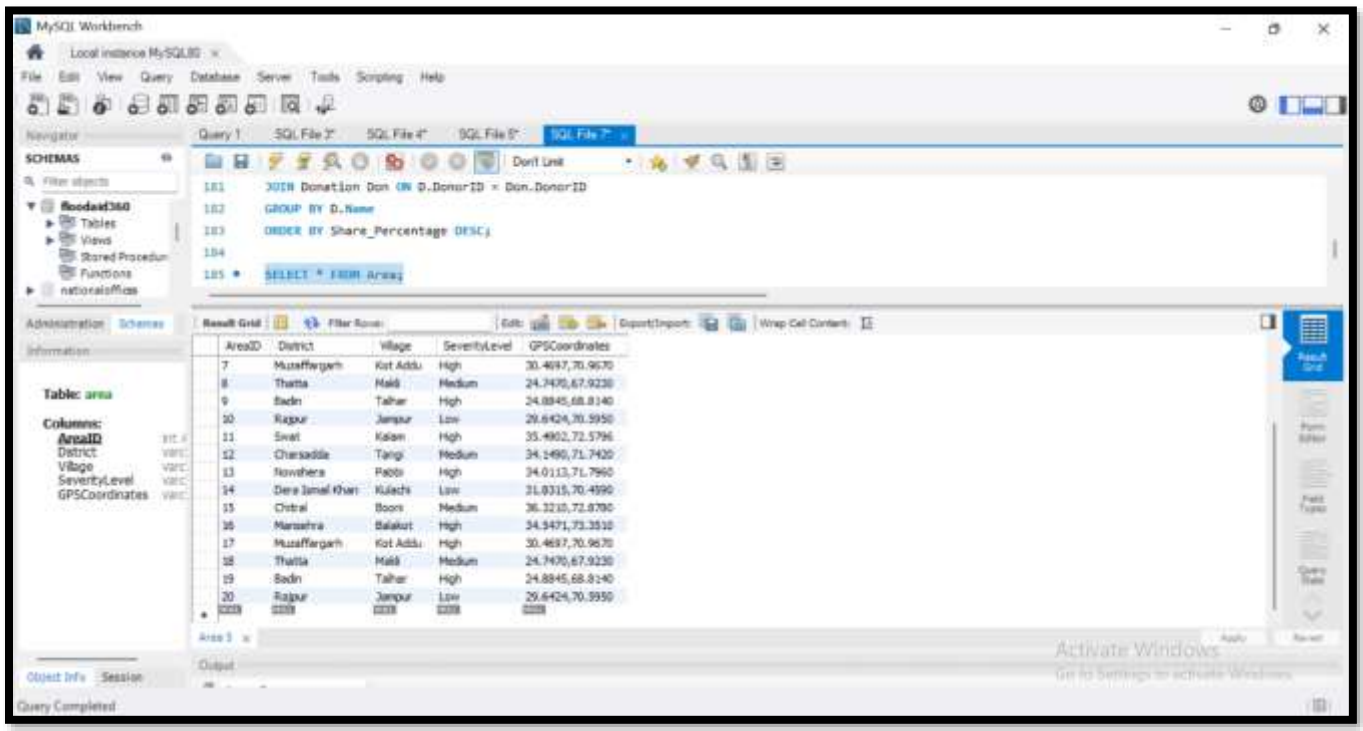
nationaloffices
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
Don't Limit
JOIN Donor ON Donation.DonorID = Donor.DonorID
GROUP BY Donor.Name;
-- 5. Resources distributed per victim
SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID
GROUP BY Victim.Name, Resource.Type;
-- 6. Dashboard: victims per area
SELECT Area.District, COUNT(Victim.VictimID) AS TotalVictims
FROM Victim
JOIN Area ON Victim.AreaID = Area.AreaID
GROUP BY Area.District;
-- 7. Dashboard: available volunteers per skill
SELECT Skill, COUNT(*) AS AvailableVolunteers
FROM Volunteer
WHERE Availability = TRUE
GROUP BY Skill;
Output
Query Completed

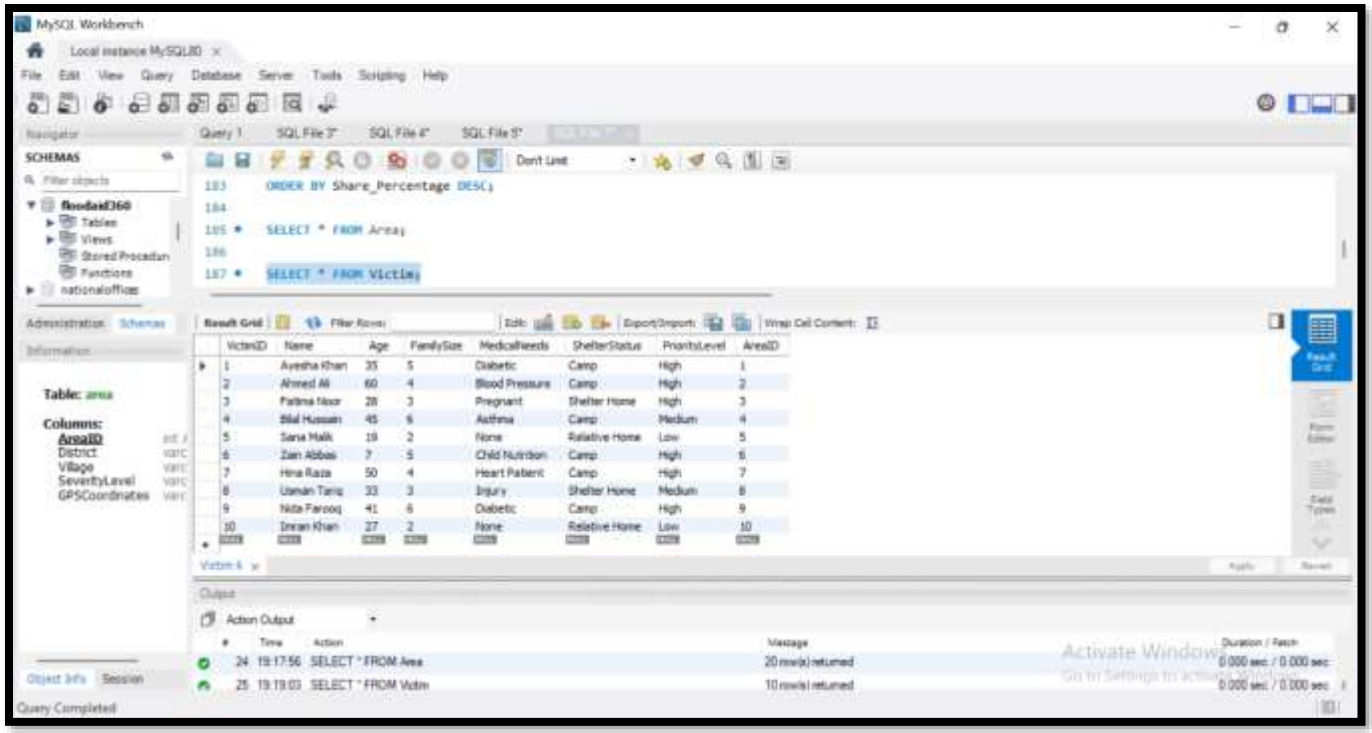
Output:


MySQL Workbench
SELECT * FROM HighPriorityRescueBoard;
Victim_Name | District | Area_Severity | MedicalNeeds | Victim_Priority
Ayesha Khan | Swat | High | Diabetic | High
Ahmed Ali | Charsadda | Medium | Blood Pressure | High
Fatima Noor | Nowshera | High | Pregnant | High
Zain Abbas | Mansehra | High | Child Nutrition | High
Hina Raza | Muzaffargarh | High | Heart Patient | High
Nida Farooq | Badin | High | Diabetic | High
SHOW TABLES
SELECT * FROM HighPriorityRescueBoard
Activate Windows


MySQL Workbench
SELECT
D.Name AS Donor_Name,
SUM(Don.Amount) AS Total_Items_Donated,
ROUND((SUM(Don.Amount) / (SELECT SUM(Amount) FROM Donation) * 100), 2) AS Share_Percentage
FROM Donor D
JOIN Donation Don ON D.DonorID = Don.DonorID
GROUP BY D.Name
ORDER BY Share_Percentage DESC;
Donor_Name | Total_Items_Donated | Share_Percentage
Red Crescent | 300 | 18.75
Private Donor A | 250 | 15.63
Edhi Foundation | 200 | 12.50
WHO | 180 | 11.25
NGO Care | 160 | 10.00
Seylani Welfare | 150 | 9.38
Private Donor B | 120 | 7.50
UNICEF | 100 | 6.25
Local Community | 90 | 5.63
Al-Khidmat | 50 | 3.13
Activate Windows


MySQL Workbench
JOIN Donation Don ON D.DonorID = Don.DonorID
GROUP BY D.Name
ORDER BY Share_Percentage DESC;
SELECT * FROM Area;
AreaID District Village SeverityLevel GPSCoordinates
1 Swat Kalam High 35.4902,72.5796
2 Charsadda Tangi Medium 34.1490,71.7420
3 Nowshera Pabbi High 34.0113,71.7960
4 Dera Ismail Khan Kulachi Low 31.8315,70.4590
5 Chitral Booni Medium 36.3210,72.8780
6 Mansehra Balakot High 34.5471,73.3510
7 Muzaffargarh Kot Addu High 30.4697,70.9670
8 Thatta Makli Medium 24.7470,67.9230
9 Badin Talhar High 24.8845,68.8140
10 Rajpur Jampur Low 29.6424,70.5950
Query Completed


MySQL Workbench
JOIN Donation Don ON D.DonorID = Don.DonorID
GROUP BY D.Name
ORDER BY Share_Percentage DESC;
SELECT * FROM Area;
AreaID District Village SeverityLevel GPSCoordinates
7 Muzaffargarh Kot Addu High 30.4697,70.9670
8 Thatta Makli Medium 24.7470,67.9230
9 Badin Talhar High 24.8845,68.8140
10 Rajpur Jampur Low 29.6424,70.5950
11 Swat Kalam High 35.4902,72.5796
12 Charsadda Tangi Medium 34.1490,71.7420
13 Nowshera Pabbi High 34.0113,71.7960
14 Dera Ismail Khan Kulachi Low 31.8315,70.4590
15 Chitral Booni Medium 36.3210,72.8780
16 Mansehra Balakot High 34.5471,73.3510
17 Muzaffargarh Kot Addu High 30.4697,70.9670
18 Thatta Makli Medium 24.7470,67.9230
19 Badin Talhar High 24.8845,68.8140
20 Rajpur Jampur Low 29.6424,70.5950
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
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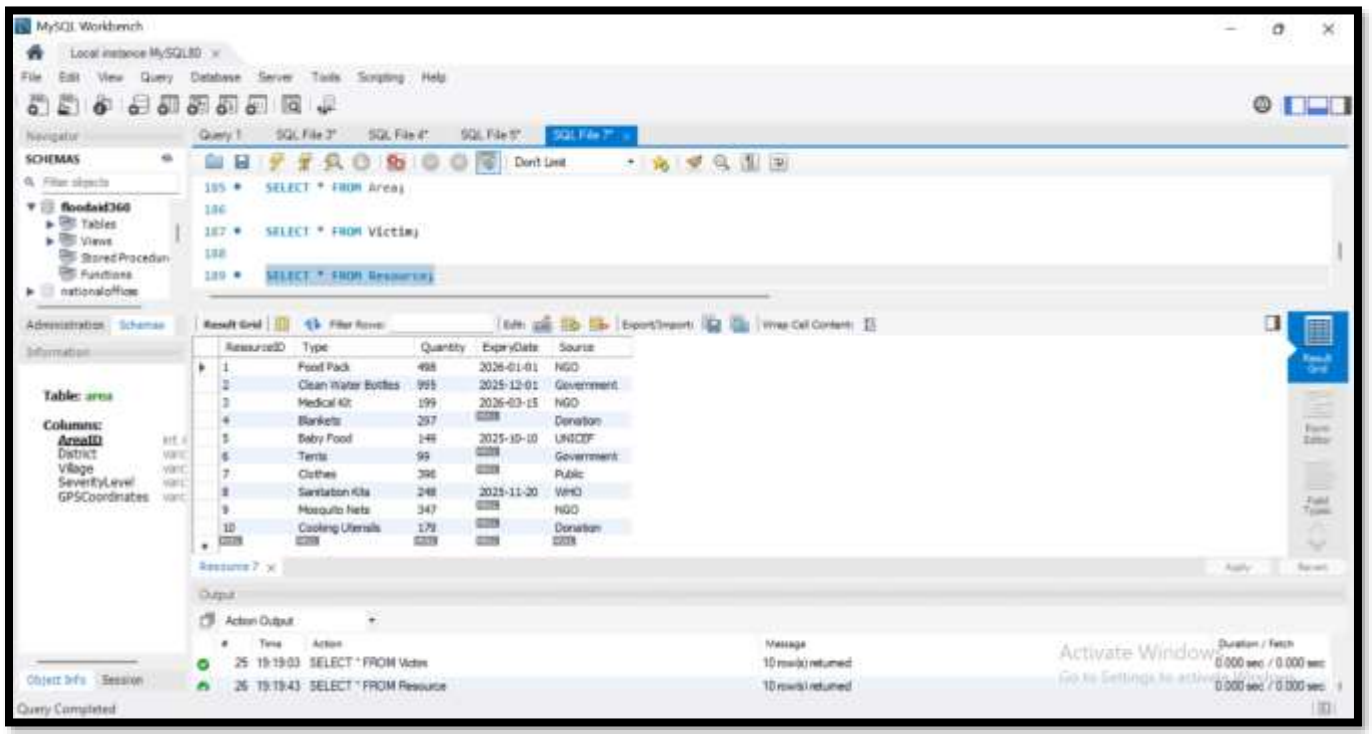
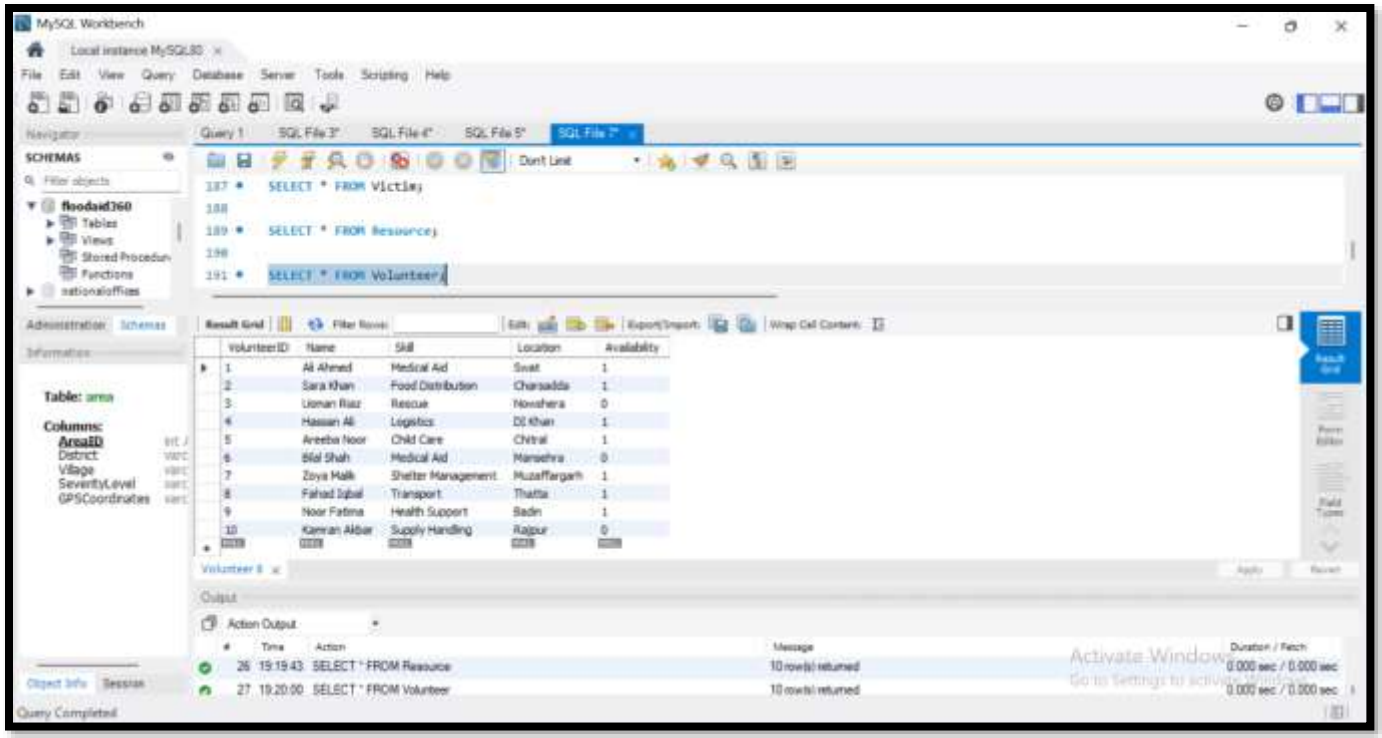
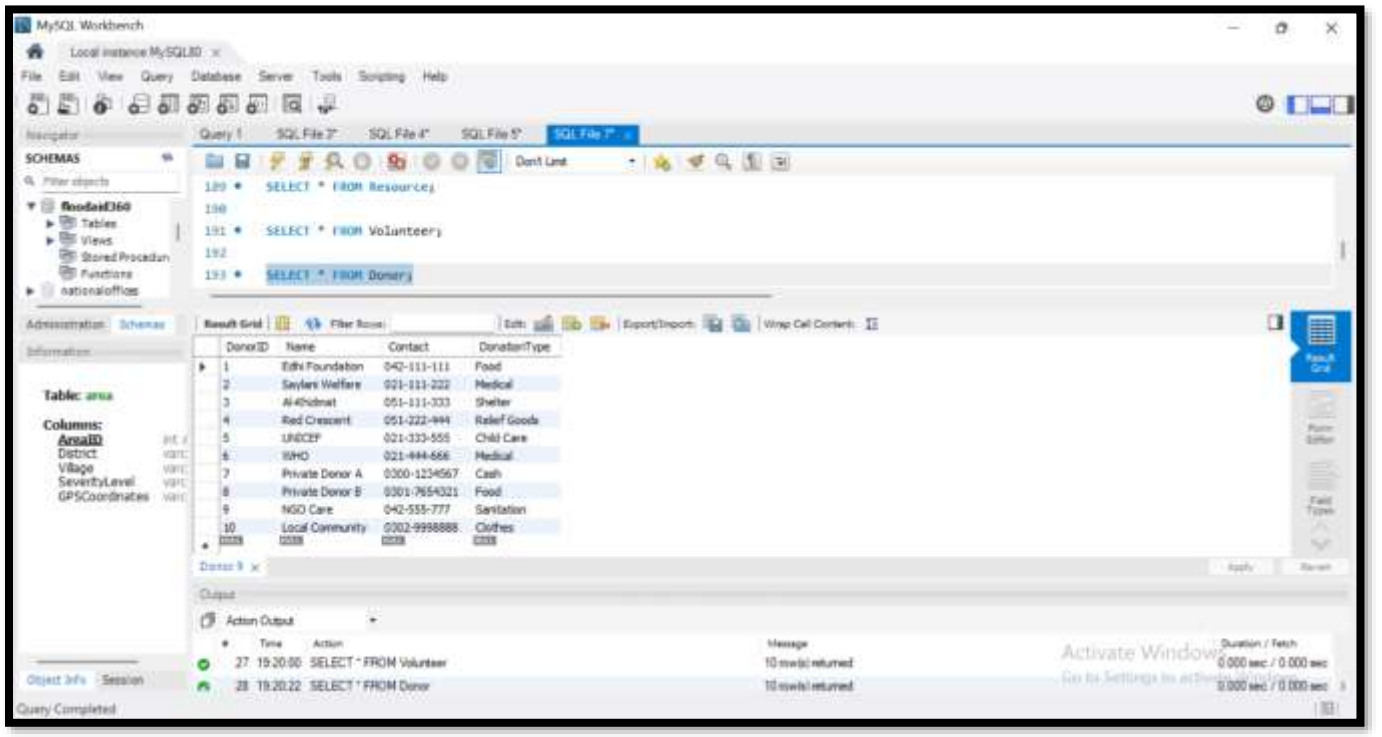
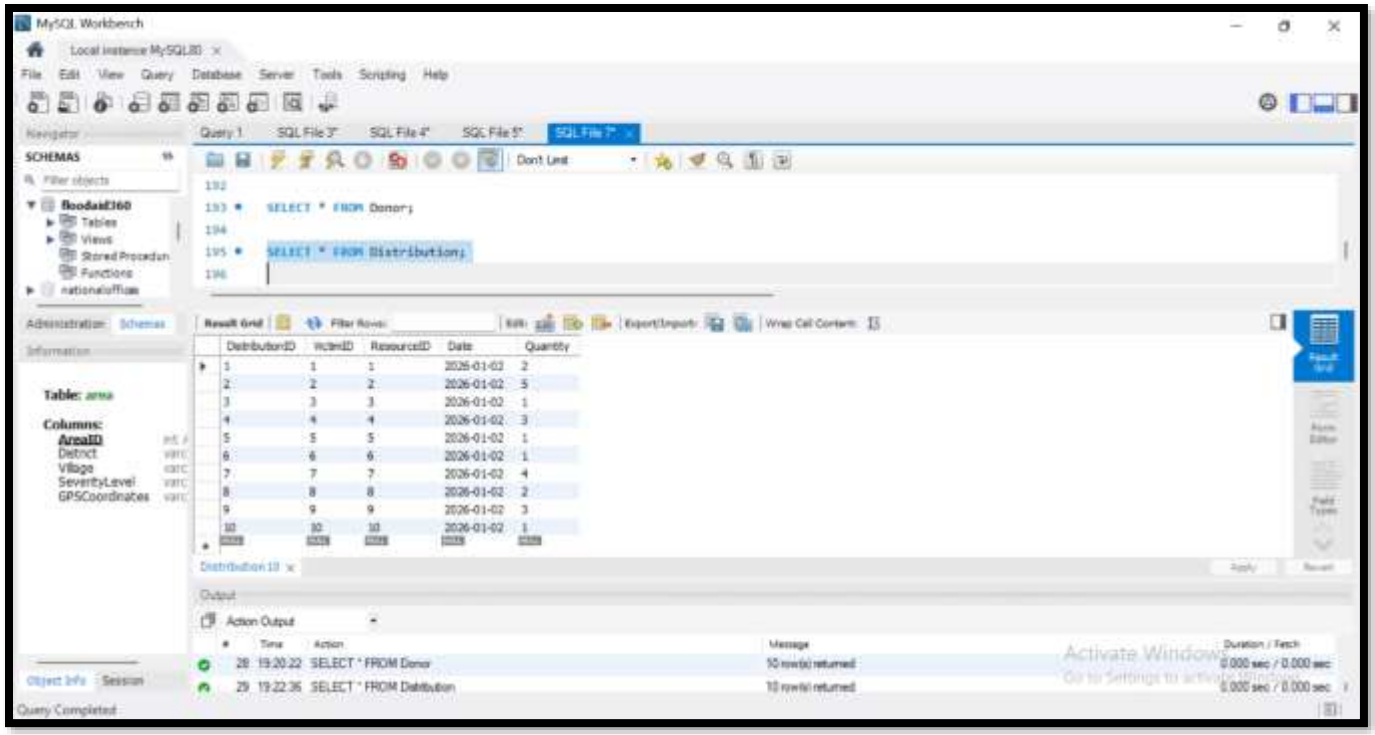
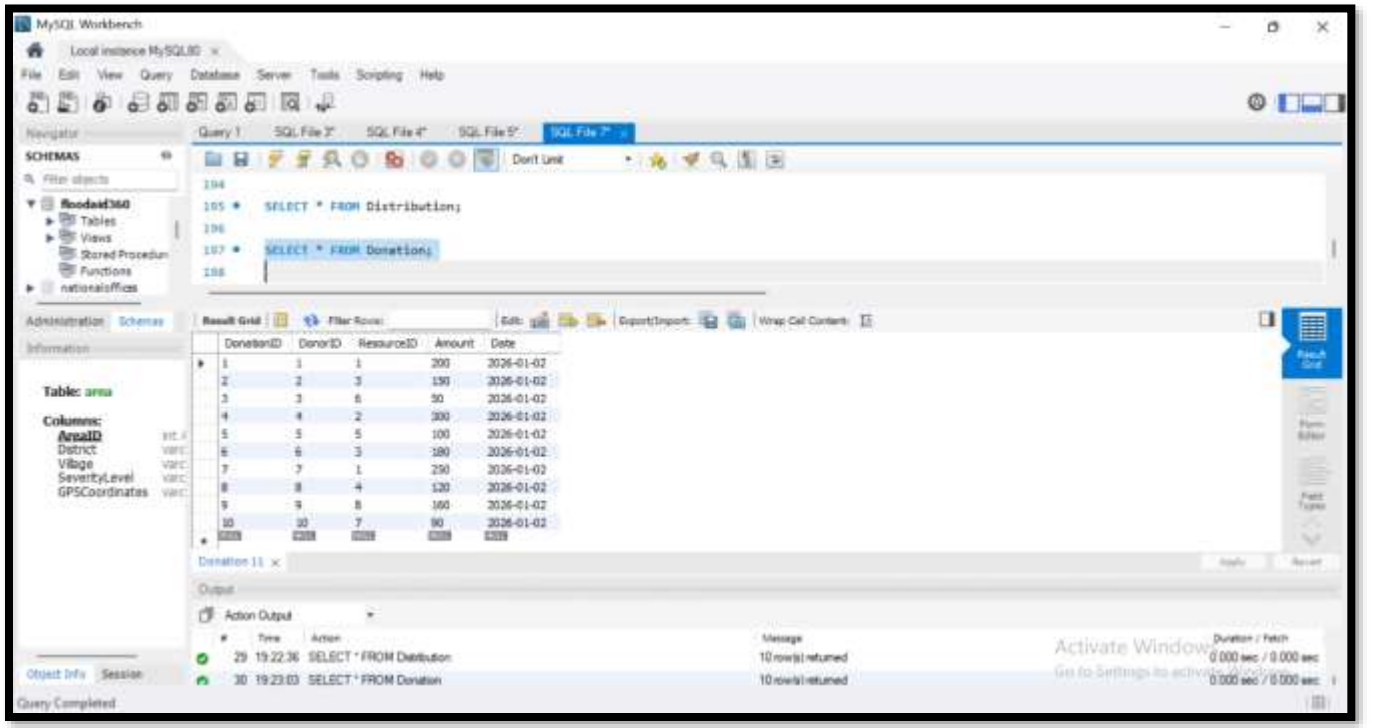
Functions
nationaloffice
Query 1 SQL File 3* SQL File 4* SQL File 5*
ORDER BY Share_Percentage DESC;
SELECT * FROM Area;
SELECT * FROM Victim;
Result Grid
VictimID Name Age FamilySize MedicalNeeds ShelterStatus PriorityLevel AreaID
1 Ayesha Khan 35 5 Diabetic Camp High 1
2 Ahmed Ali 60 4 Blood Pressure Camp High 2
3 Fatima Noor 28 3 Pregnant Shelter Home High 3
4 Bilal Hussain 45 6 Asthma Camp Medium 4
5 Sana Malik 19 2 None Relative Home Low 5
6 Zain Abbas 7 5 Child Nutrition Camp High 6
7 Hina Raza 50 4 Heart Patient Camp High 7
8 Usman Tariq 33 3 Injury Shelter Home Medium 8
9 Nida Farooq 41 6 Diabetic Camp High 9
10 Imran Khan 27 2 None Relative Home Low 10
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
24 19:17:56 SELECT * FROM Area 20 row(s) returned
25 19:19:03 SELECT * FROM Victim 10 row(s) returned
Query Completed

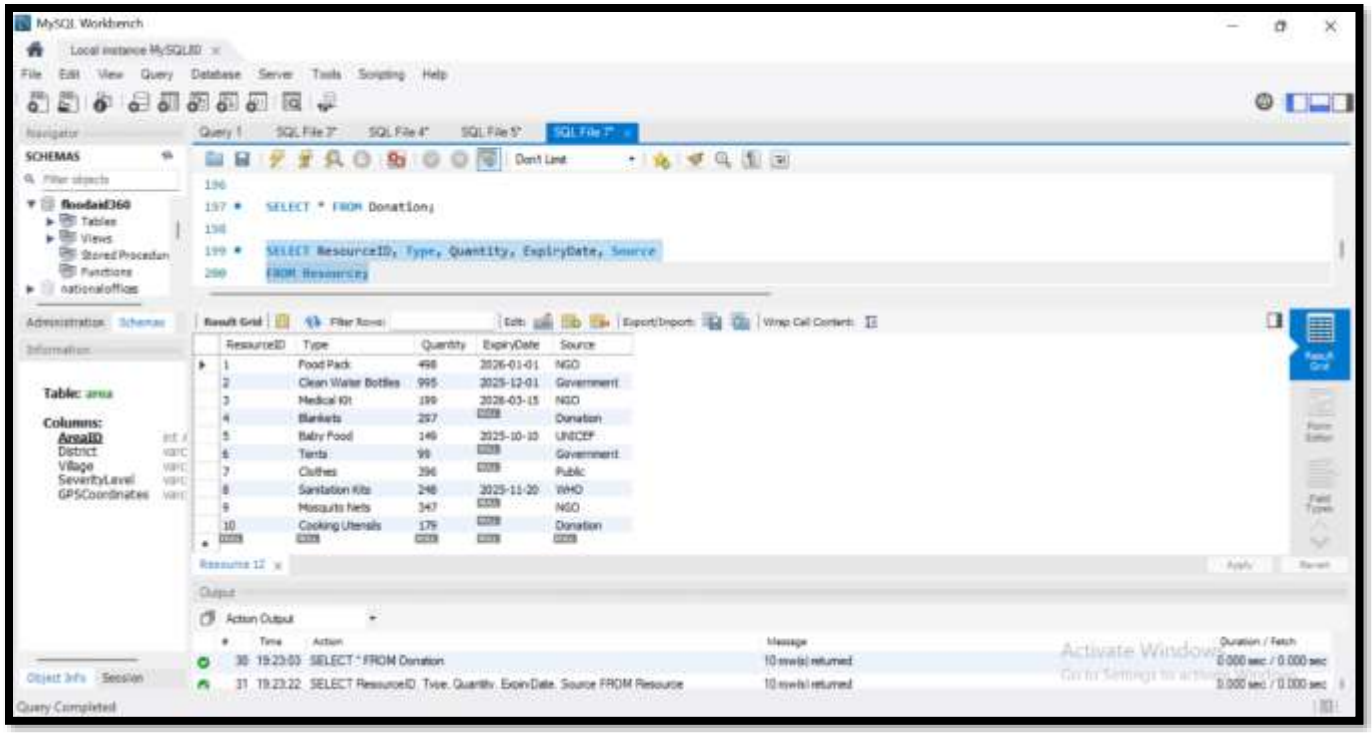

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SELECT * FROM Area;
SELECT * FROM Victim;
SELECT * FROM Resource;
Result Grid
ResourceID Type Quantity ExpiryDate Source
1 Food Pack 498 2026-01-01 NGO
2 Clean Water Bottles 995 2025-12-01 Government
3 Medical Kit 199 2026-03-15 NGO
4 Blankets 257 Donation
5 Baby Food 149 2025-10-10 UNICEF
6 Tents 99 Government
7 Clothes 398 Public
8 Sanitation Kits 248 2025-11-20 WHO
9 Mosquito Nets 347 NGO
10 Cooking Utensils 179 Donation
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
25 19:19:03 SELECT * FROM Victim 10 row(s) returned
26 19:19:43 SELECT * FROM Resource 10 row(s) returned
Query Completed

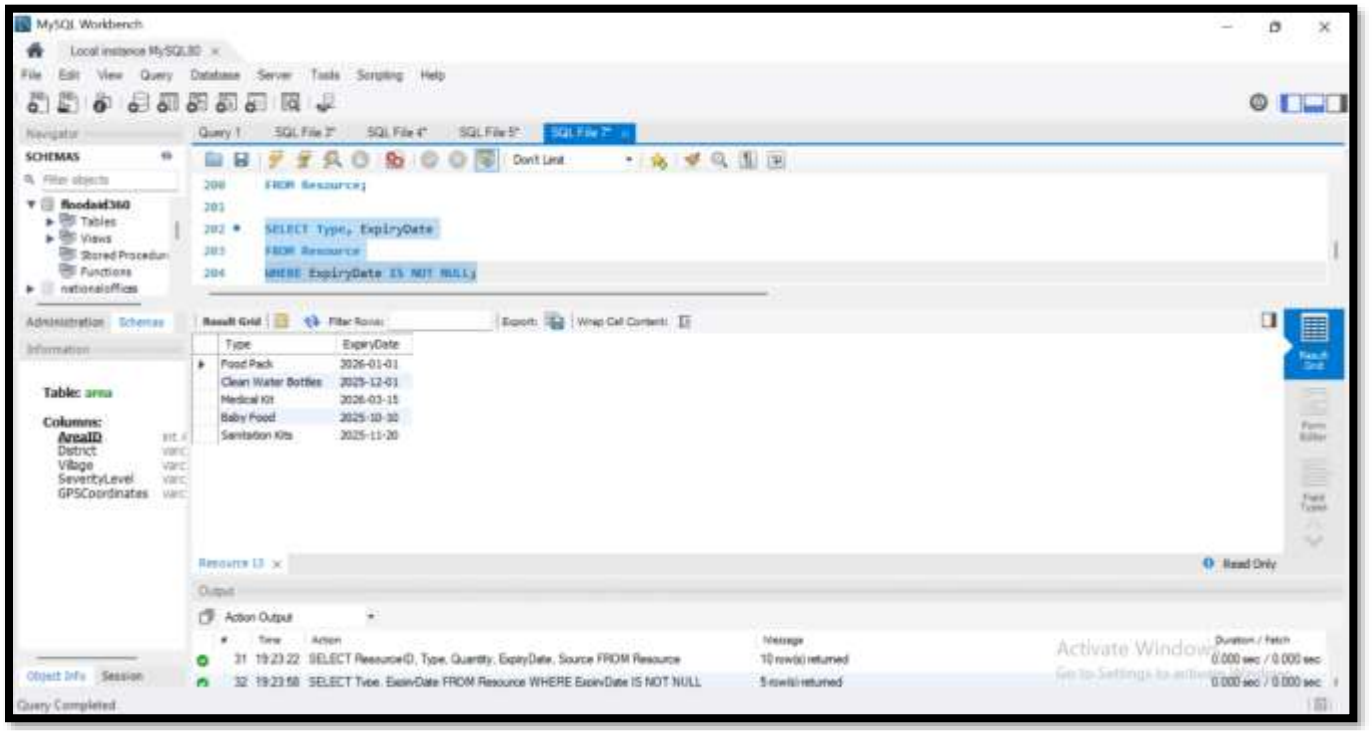

MySQL Workbench
SELECT * FROM Victim;
SELECT * FROM Resource;
SELECT * FROM Volunteer;
VolunteerID Name Skill Location Availability
1 Ali Ahmed Medical Aid Swat 1
2 Sara Khan Food Distribution Charsadda 1
3 Usman Riaz Rescue Nowshera 0
4 Hassan Ali Logistics DI Khan 1
5 Areeba Noor Child Care Chitral 1
6 Bilal Shah Medical Aid Mansehra 0
7 Zoya Malik Shelter Management Muzaffargarh 1
8 Fahad Iqbal Transport Thatta 1
9 Noor Fatima Health Support Badin 1
10 Kamran Akbar Supply Handling Rajpur 0
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
26 19:19:43 SELECT * FROM Resource 10 row(s) returned 0.000 sec / 0.000 sec
27 19:20:00 SELECT * FROM Volunteer 10 row(s) returned 0.000 sec / 0.000 sec
Query Completed

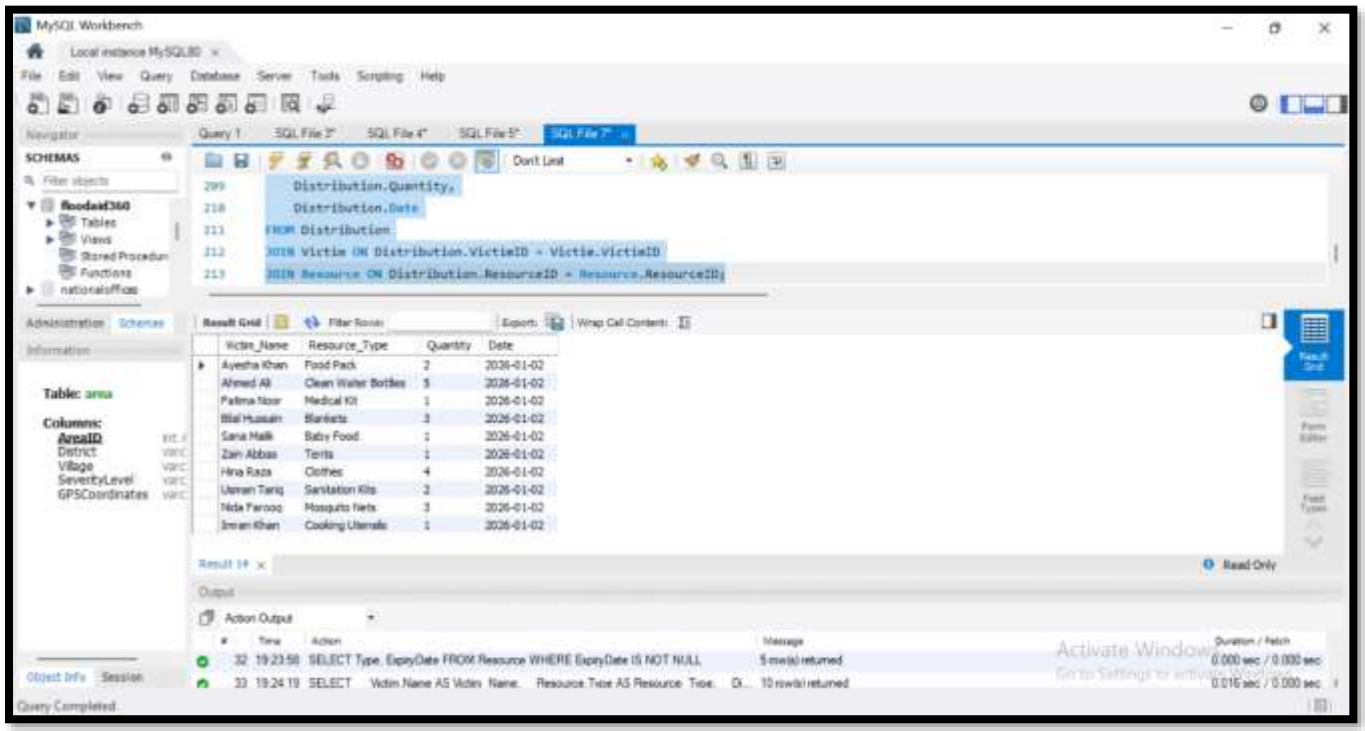

MySQL Workbench
SELECT * FROM Resource;
SELECT * FROM Volunteer;
SELECT * FROM Donor;
DonorID Name Contact DonationType
1 Edhi Foundation 042-111-111 Food
2 Saylani Welfare 021-111-222 Medical
3 Al-Khidmat 051-111-333 Shelter
4 Red Crescent 051-222-444 Relief Goods
5 UNICEF 021-333-555 Child Care
6 WHO 021-444-666 Medical
7 Private Donor A 0300-1234567 Cash
8 Private Donor B 0301-7654321 Food
9 NGO Care 042-555-777 Sanitation
10 Local Community 0302-9998888 Clothes
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
27 19:20:00 SELECT * FROM Volunteer 10 row(s) returned 0.000 sec / 0.000 sec
28 19:20:22 SELECT * FROM Donor 10 row(s) returned 0.000 sec / 0.000 sec
Query Completed

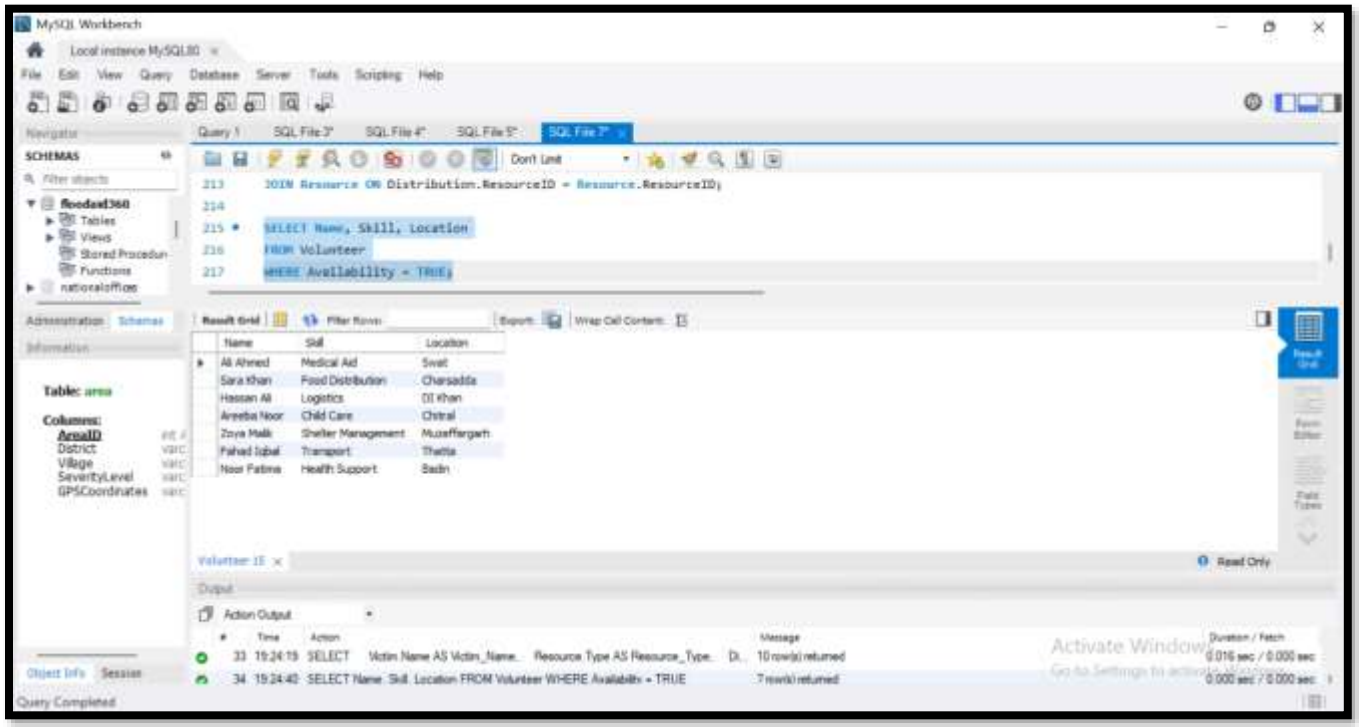

MySQL Workbench
SELECT * FROM Donor;
SELECT * FROM Distribution;
DistributionID VictimID ResourceID Date Quantity
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Action Output
Query Completed

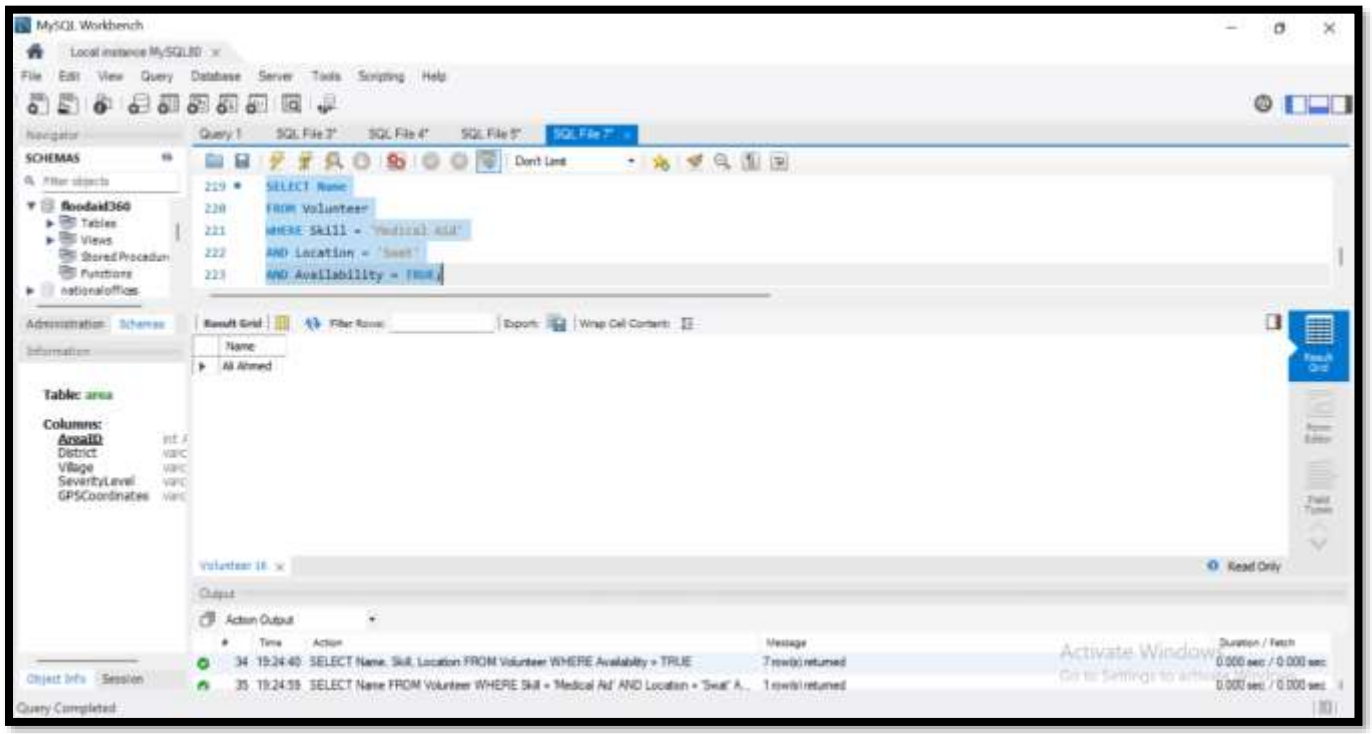

MySQL Workbench
SELECT * FROM Distribution;
SELECT * FROM Donation;
DonationID DonorID ResourceID Amount Date
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Action Output
Query Completed

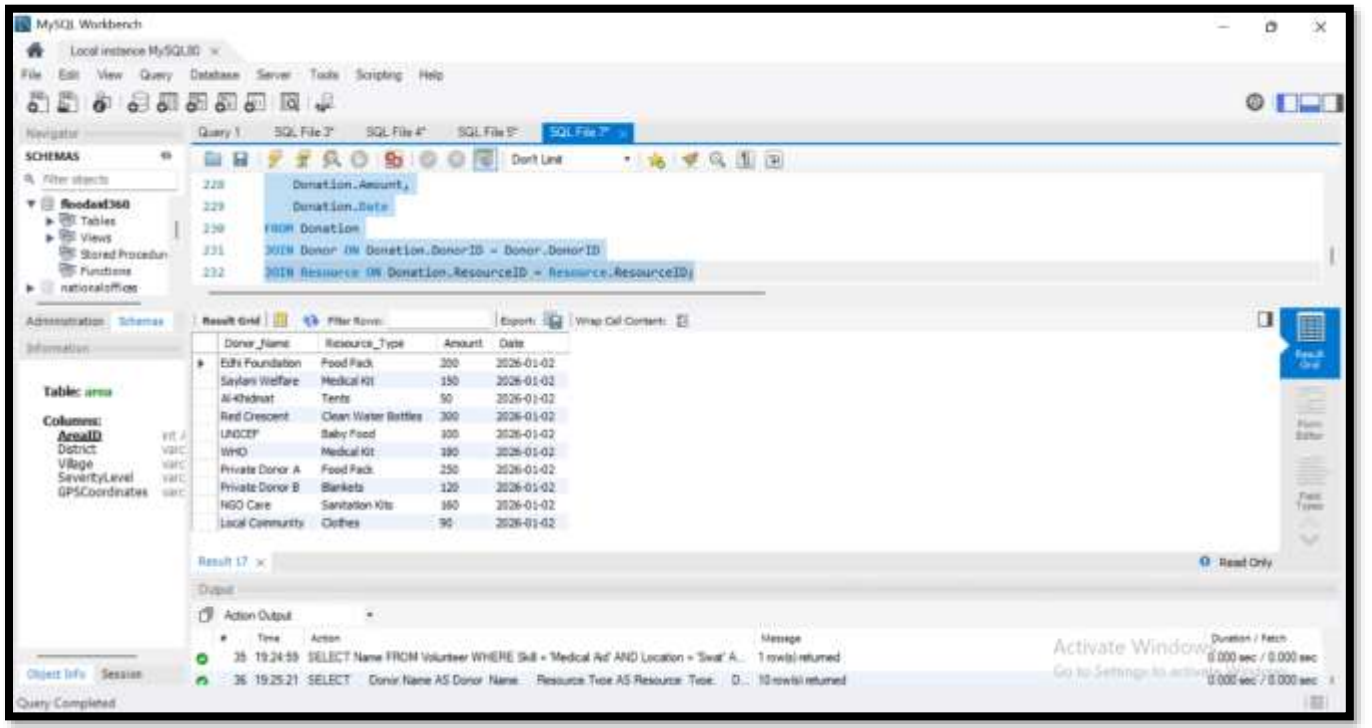

MySQL Workbench
SELECT * FROM Donation;
SELECT ResourceID, Type, Quantity, ExpiryDate, Source
FROM Resource;
Result Grid
ResourceID Type Quantity ExpiryDate Source
1 Food Pack 498 2026-01-01 NGO
2 Clean Water Bottles 995 2025-12-01 Government
3 Medical Kit 199 2026-03-15 NGO
4 Blankets 297 Donation
5 Baby Food 149 2025-10-10 UNICEF
6 Tents 99 Government
7 Clothes 396 Public
8 Sanitation Kits 248 2025-11-20 WHO
9 Mosquito Nets 347 NGO
10 Cooking Utensils 179 Donation
Action Output
30 19:23:03 SELECT * FROM Donation 10 row(s) returned 0.000 sec / 0.000 sec
31 19:23:22 SELECT ResourceID, Type, Quantity, ExpiryDate, Source FROM Resource 10 row(s) returned 0.000 sec / 0.000 sec
Query Completed

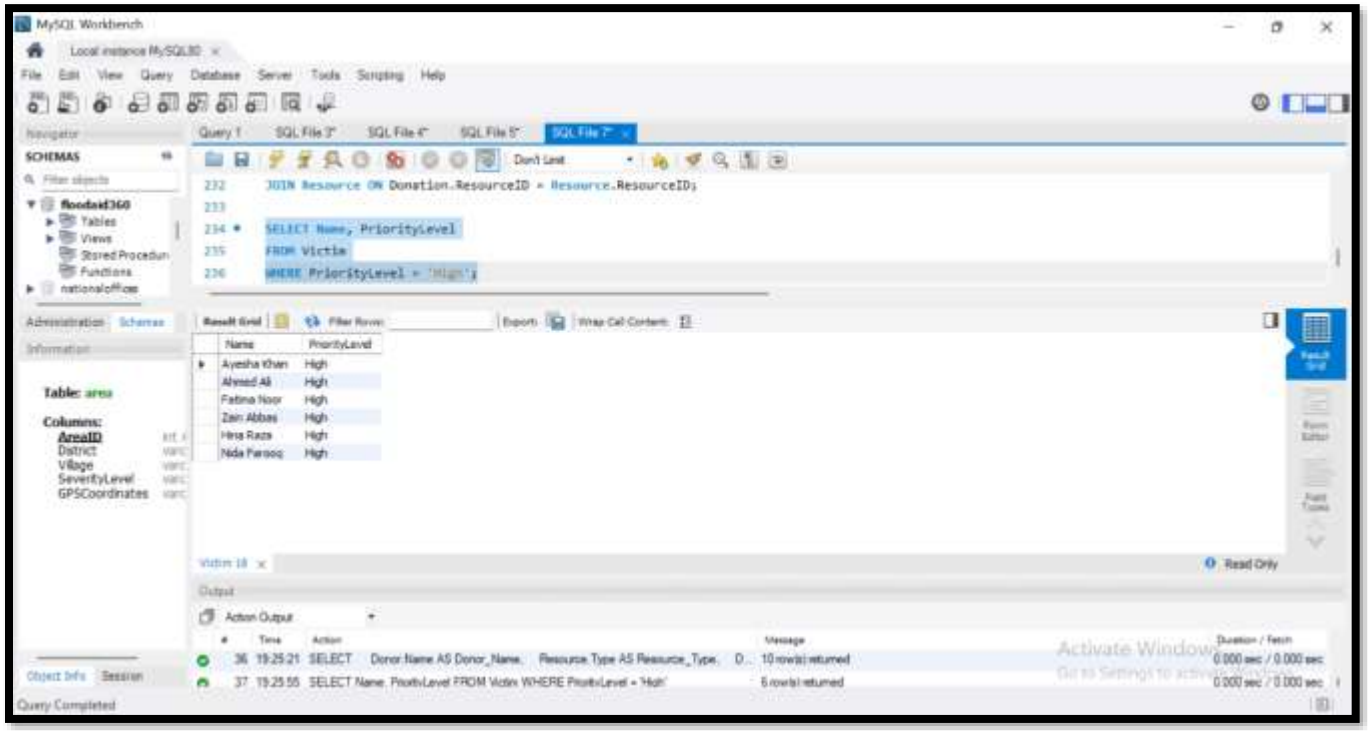

MySQL Workbench
FROM Resource;
SELECT Type, ExpiryDate
FROM Resource
WHERE ExpiryDate IS NOT NULL;
Result Grid
Type ExpiryDate
Food Pack 2026-01-01
Clean Water Bottles 2025-12-01
Medical Kit 2026-03-15
Baby Food 2025-10-10
Sanitation Kits 2025-11-20
Read Only
Action Output
31 19:23:22 SELECT ResourceID, Type, Quantity, ExpiryDate, Source FROM Resource 10 row(s) returned 0.000 sec / 0.000 sec
32 19:23:58 SELECT Type, ExpiryDate FROM Resource WHERE ExpiryDate IS NOT NULL 5 row(s) returned 0.000 sec / 0.000 sec
Query Completed

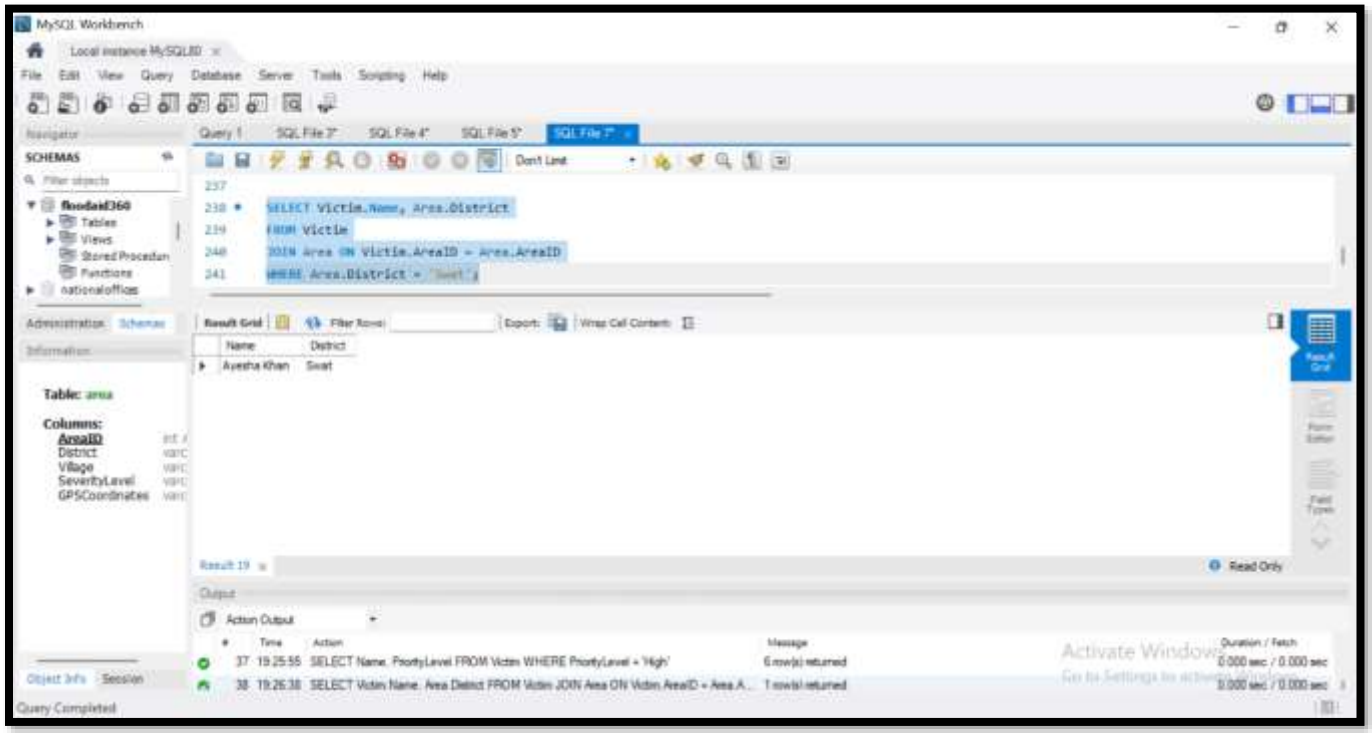

MySQL Workbench
Distribution.Quantity,
Distribution.Date
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
Victim_Name Resource_Type Quantity Date
Ayesha Khan Food Pack 2 2026-01-02
Ahmed Ali Clean Water Bottles 5 2026-01-02
Fatima Noor Medical Kit 1 2026-01-02
Bilal Hussain Blankets 3 2026-01-02
Sana Malik Baby Food 1 2026-01-02
Zain Abbas Tents 1 2026-01-02
Hina Raza Clothes 4 2026-01-02
Usman Tariq Sanitation Kits 2 2026-01-02
Nida Farooq Mosquito Nets 3 2026-01-02
Imran Khan Cooking Utensils 1 2026-01-02
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
SELECT Type, ExpiryDate FROM Resource WHERE ExpiryDate IS NOT NULL
SELECT Victim_Name AS Victim_Name, Resource_Type AS Resource_Type
Activate Windows

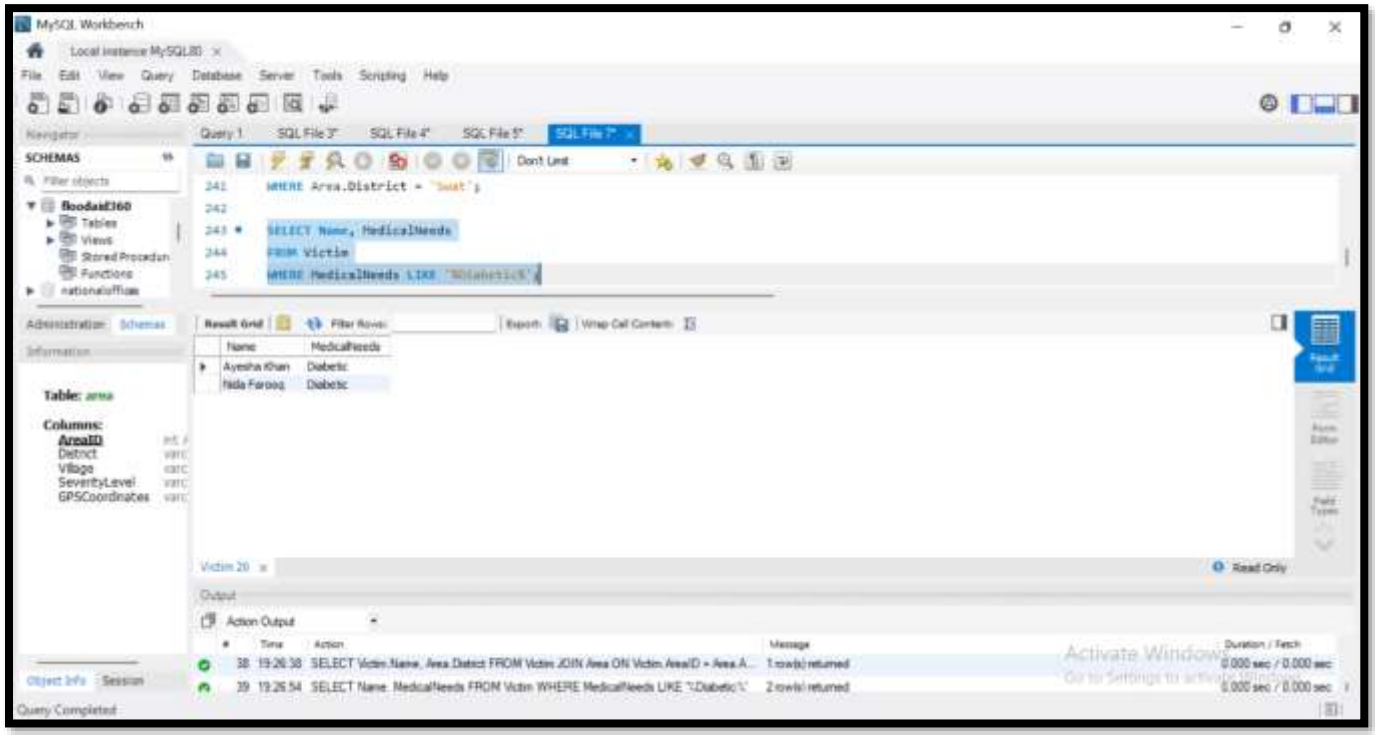

MySQL Workbench
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
SELECT Name, Skill, Location
FROM Volunteer
WHERE Availability = TRUE;
Name Skill Location
Ali Ahmed Medical Aid Swat
Sara Khan Food Distribution Charsadda
Hassan Ali Logistics Dir Khan
Areeba Noor Child Care Chitral
Zoya Malik Shelter Management Muzaffargarh
Fahad Iqbal Transport Thatta
Noor Fatima Health Support Badin
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
SELECT Victim_Name AS Victim_Name, Resource_Type AS Resource_Type
SELECT Name, Skill, Location FROM Volunteer WHERE Availability = TRUE
Activate Windows

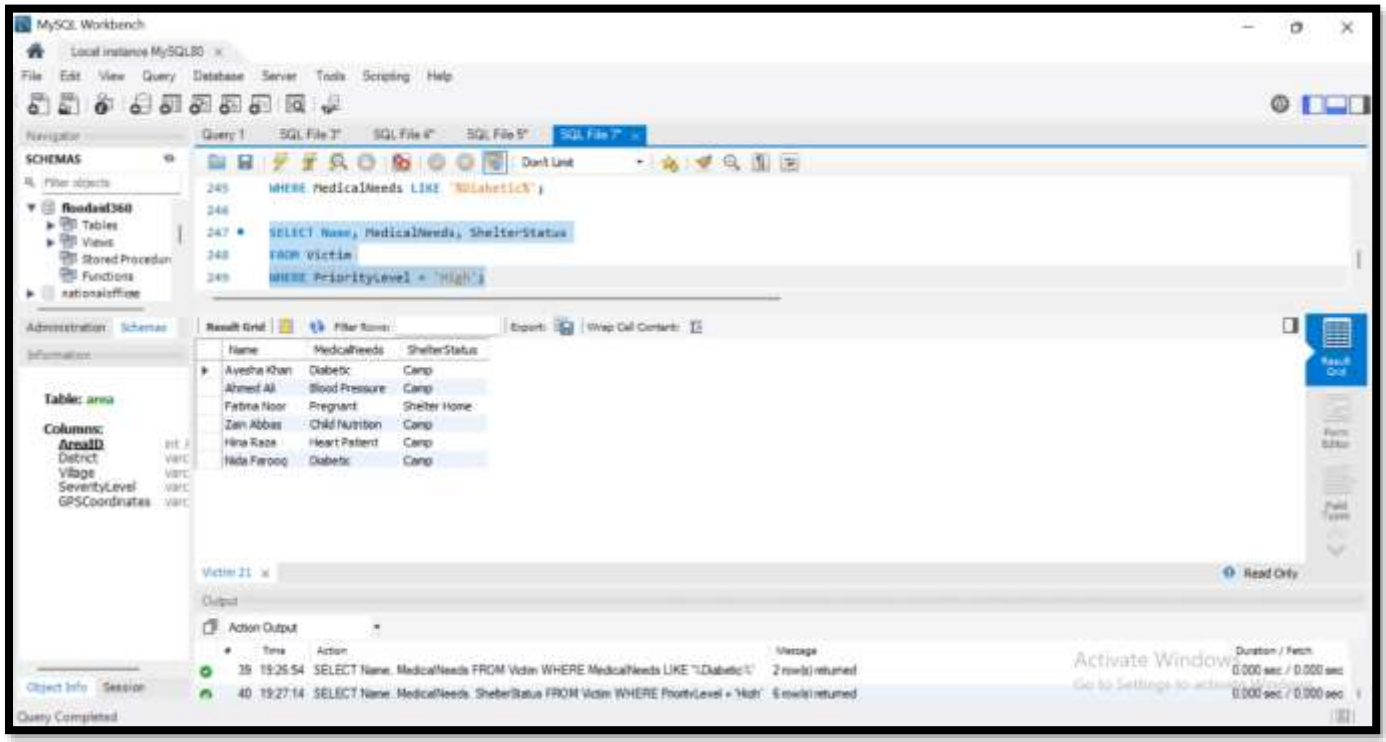

MySQL Workbench
SELECT Name
FROM Volunteer
WHERE Skill = 'Medical Aid'
AND Location = 'Swat'
AND Availability = TRUE;
Name
Ali Ahmed
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Action Output
34 19:24:40 SELECT Name, Skill, Location FROM Volunteer WHERE Availability = TRUE 7 row(s) returned
35 19:24:59 SELECT Name FROM Volunteer WHERE Skill = 'Medical Aid' AND Location = 'Swat' A... 1 row(s) returned
Query Completed

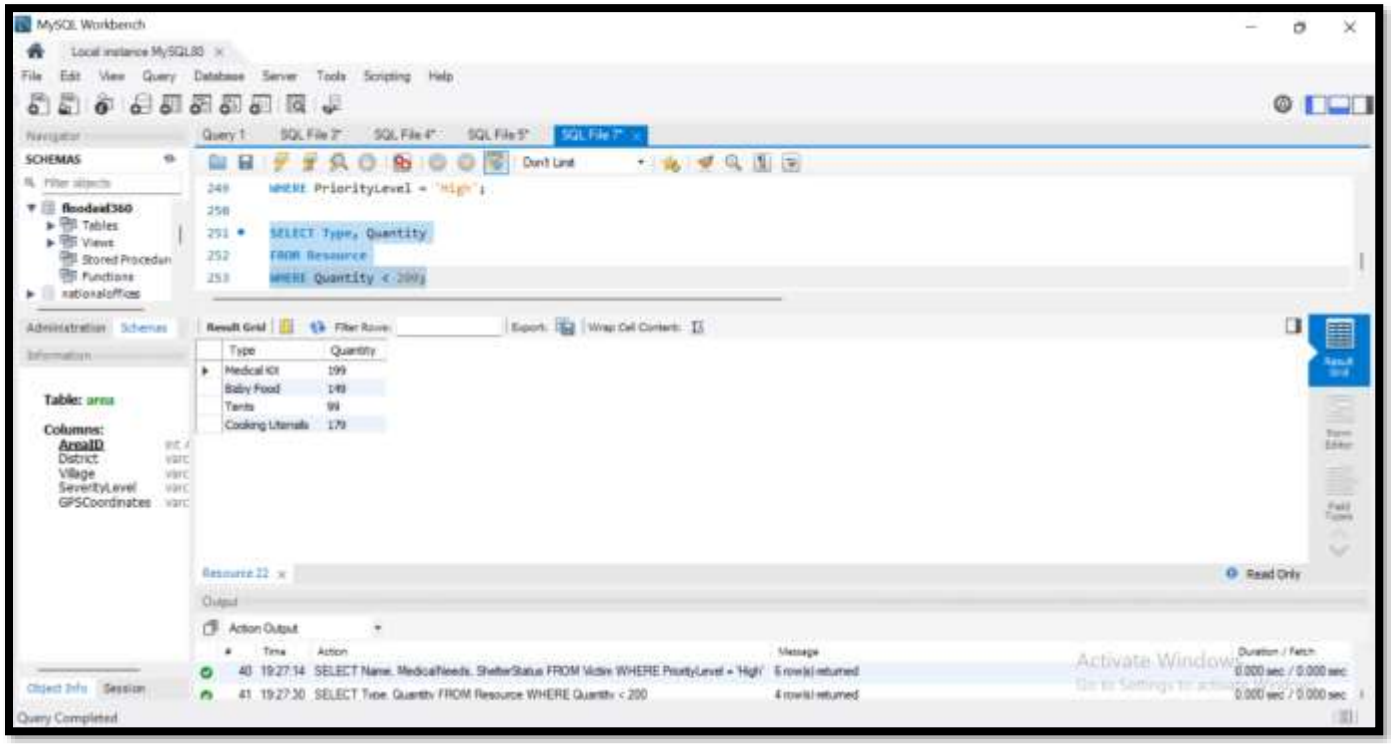

MySQL Workbench
Donation.Amount,
Donation.Date
FROM Donation
JOIN Donor ON Donation.DonorID = Donor.DonorID
JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
Donor_Name Resource_Type Amount Date
Edhi Foundation Food Pack 300 2026-01-02
Saylani Welfare Medical Kit 150 2026-01-02
Al-Khidmat Tents 50 2026-01-02
Red Crescent Clean Water Bottles 300 2026-01-02
UNICEF Baby Food 100 2026-01-02
WHO Medical Kit 180 2026-01-02
Private Donor A Food Pack 250 2026-01-02
Private Donor B Blankets 120 2026-01-02
NGO Care Sanitation Kits 160 2026-01-02
Local Community Clothes 90 2026-01-02
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Action Output
35 19:24:59 SELECT Name FROM Volunteer WHERE Skill = 'Medical Aid' AND Location = 'Swat' A... 1 row(s) returned
36 19:25:21 SELECT Donor.Name AS Donor_Name, Resource.Type AS Resource_Type, D... 10 row(s) returned
Query Completed

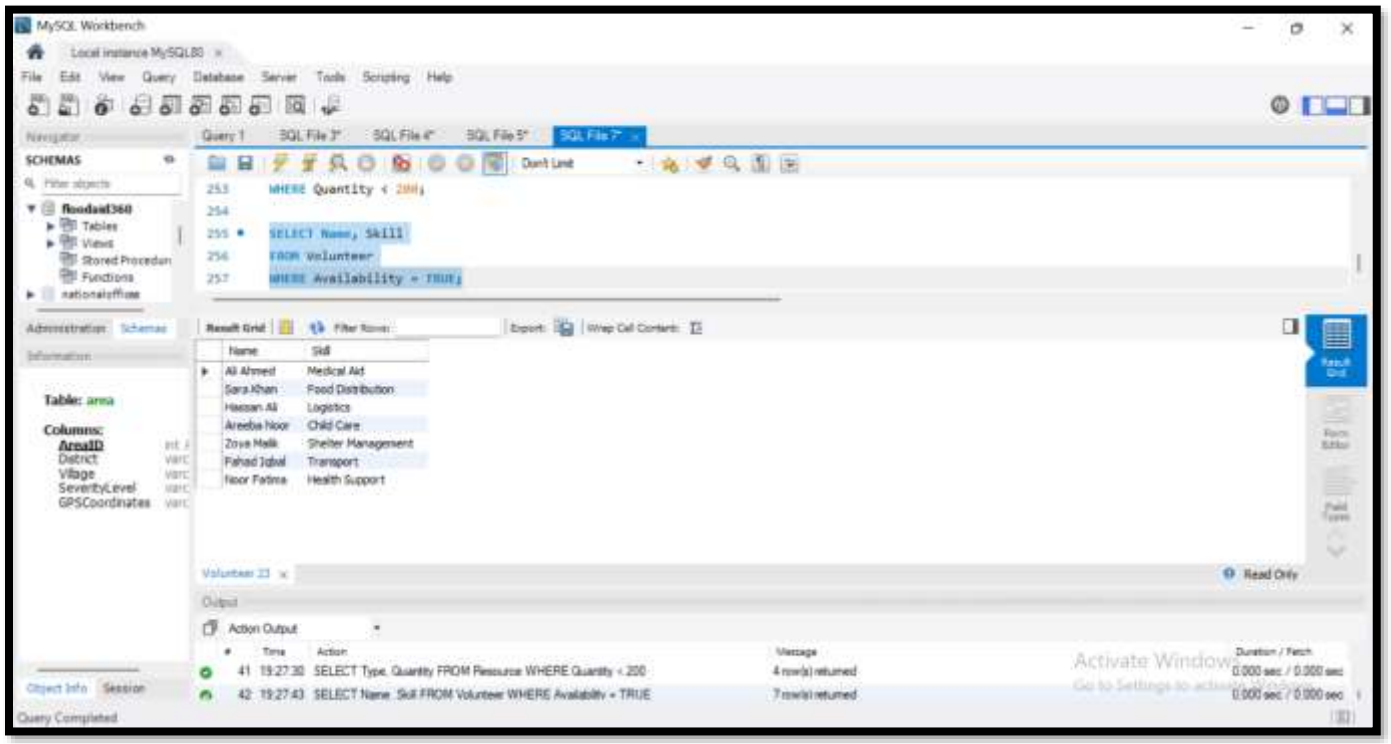

MySQL Workbench
JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
SELECT Name, PriorityLevel
FROM Victim
WHERE PriorityLevel = 'High';
Name PriorityLevel
Ayesha Khan High
Ahmed Ali High
Fatima Noor High
Zain Abbas High
Hina Raza High
Nida Farooq High
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Read Only
Query Completed

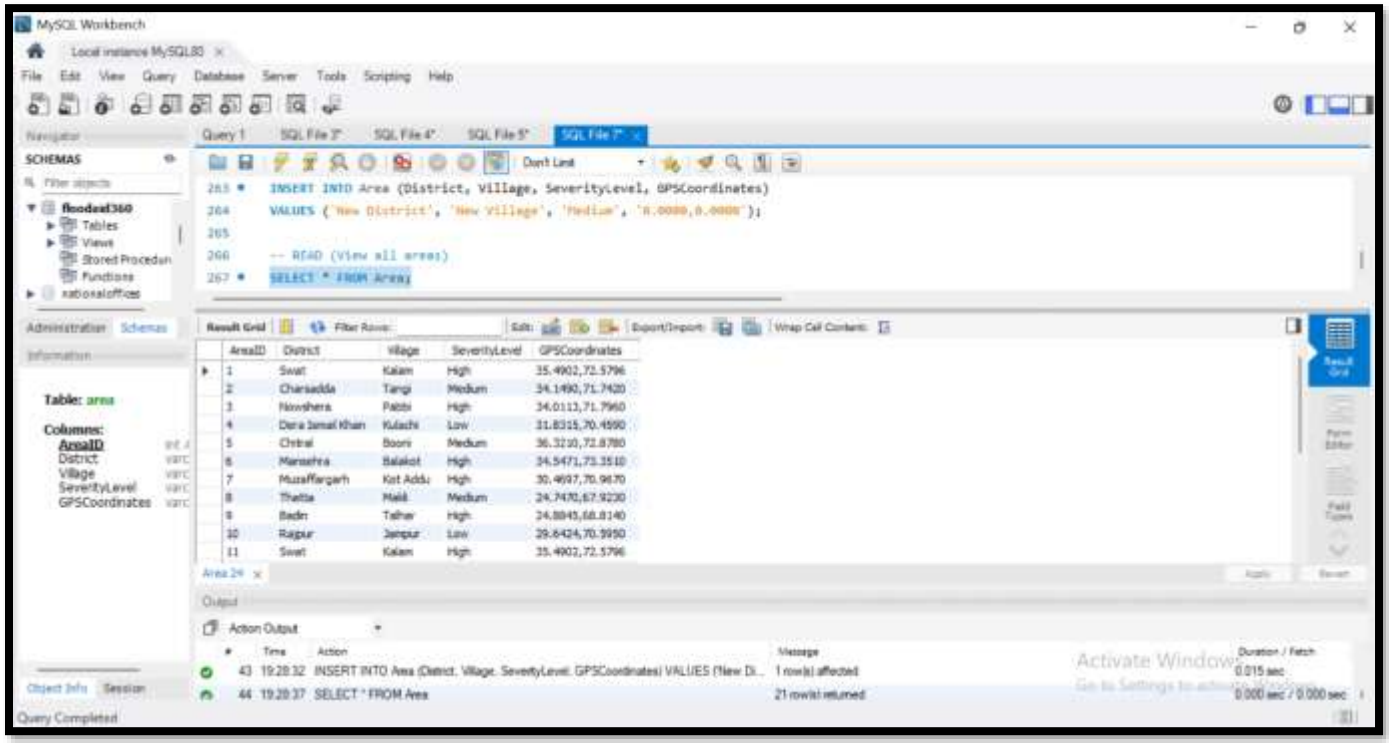

MySQL Workbench
SELECT Victim.Name, Area.District
FROM Victim
JOIN Area ON Victim.AreaID = Area.AreaID
WHERE Area.District = 'Swat';
Name District
Ayesha Khan Swat
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Read Only
Query Completed

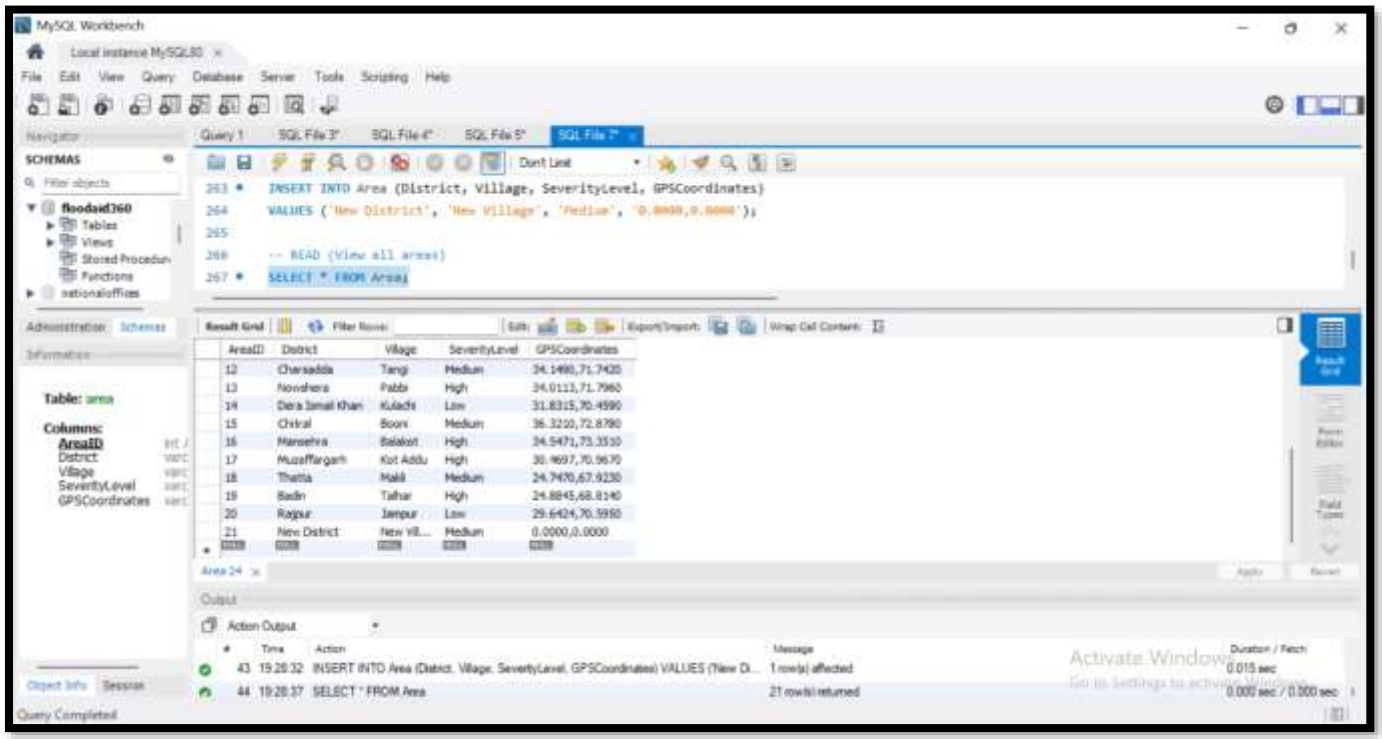

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationalofflow
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
241 WHERE Area.District = 'Swat';
242
243 SELECT Name, MedicalNeeds
244 FROM Victim
245 WHERE MedicalNeeds LIKE '%Diabetic%';
Result Grid
Name MedicalNeeds
Ayesha Khan Diabetic
Nida Farooq Diabetic
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Victim 20
Read Only
Output
Action Output
38 19:26:38 SELECT Victim.Name, Area.District FROM Victim JOIN Area ON Victim.AreaID = Area.A... 1 row(s) returned 0.000 sec / 0.000 sec
39 19:26:54 SELECT Name, MedicalNeeds FROM Victim WHERE MedicalNeeds LIKE '%Diabetic%' 2 row(s) returned 0.000 sec / 0.000 sec
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationalofflow
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
245 WHERE MedicalNeeds LIKE '%Diabetic%';
246
247 SELECT Name, MedicalNeeds, ShelterStatus
248 FROM Victim
249 WHERE PriorityLevel = 'High';
Result Grid
Name MedicalNeeds ShelterStatus
Ayesha Khan Diabetic Camp
Ahmed Ali Blood Pressure Camp
Fatima Noor Pregnant Shelter Home
Zain Abbas Child Nutrition Camp
Hina Raza Heart Patient Camp
Nida Farooq Diabetic Camp
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Victim 21
Read Only
Output
Action Output
39 19:26:54 SELECT Name, MedicalNeeds FROM Victim WHERE MedicalNeeds LIKE '%Diabetic%' 2 row(s) returned 0.000 sec / 0.000 sec
40 19:27:14 SELECT Name, MedicalNeeds, ShelterStatus FROM Victim WHERE PriorityLevel = 'High' 6 row(s) returned 0.000 sec / 0.000 sec
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
WHERE PriorityLevel = 'High';
SELECT Type, Quantity
FROM Resource
WHERE Quantity < 200;
Result Grid
Type Quantity
Medical Kit 199
Baby Food 149
Tents 99
Cooking Utensils 179
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Resource 22
Read Only
Output
Action Output
40 19:27:14 SELECT Name, MedicalNeeds, ShelterStatus FROM Victim WHERE PriorityLevel = 'High' 6 row(s) returned 0.000 sec / 0.000 sec
41 19:27:30 SELECT Type, Quantity FROM Resource WHERE Quantity < 200 4 row(s) returned 0.000 sec / 0.000 sec
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
WHERE Quantity < 200;
SELECT Name, Skill
FROM Volunteer
WHERE Availability = TRUE;
Result Grid
Name Skill
Ali Ahmed Medical Aid
Sara Khan Food Distribution
Hassan Ali Logistics
Areeba Noor Child Care
Zoya Malik Shelter Management
Fahad Iqbal Transport
Noor Fatima Health Support
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Volunteer 23
Read Only
Output
Action Output
41 19:27:30 SELECT Type, Quantity FROM Resource WHERE Quantity < 200 4 row(s) returned 0.000 sec / 0.000 sec
42 19:27:43 SELECT Name, Skill FROM Volunteer WHERE Availability = TRUE 7 row(s) returned 0.000 sec / 0.000 sec
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
263 • INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)
264 VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');
265
266 -- READ (View all areas)
267 • SELECT * FROM Area;
Result Grid
AreaID District Village SeverityLevel GPSCoordinates
1 Swat Kalam High 35.4902,72.5796
2 Charsadda Tangi Medium 34.1490,71.7420
3 Nowshera Pabbi High 34.0113,71.7960
4 Dera Ismail Khan Kulachi Low 31.8315,70.4590
5 Chitral Booni Medium 36.3210,72.8780
6 Mansehra Balakot High 34.5471,73.3510
7 Muzaffargarh Kot Addu High 30.4697,70.9670
8 Thatta Makli Medium 24.7470,67.9230
9 Badin Talhar High 24.8845,68.8140
10 Rajpur Jampur Low 29.6424,70.5950
11 Swat Kalam High 35.4902,72.5796
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
Time Action Message Duration / Fetch
43 19:28:32 INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES ('New Di... 1 row(s) affected 0.015 sec
44 19:28:37 SELECT * FROM Area 21 row(s) returned 0.000 sec / 0.000 sec
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
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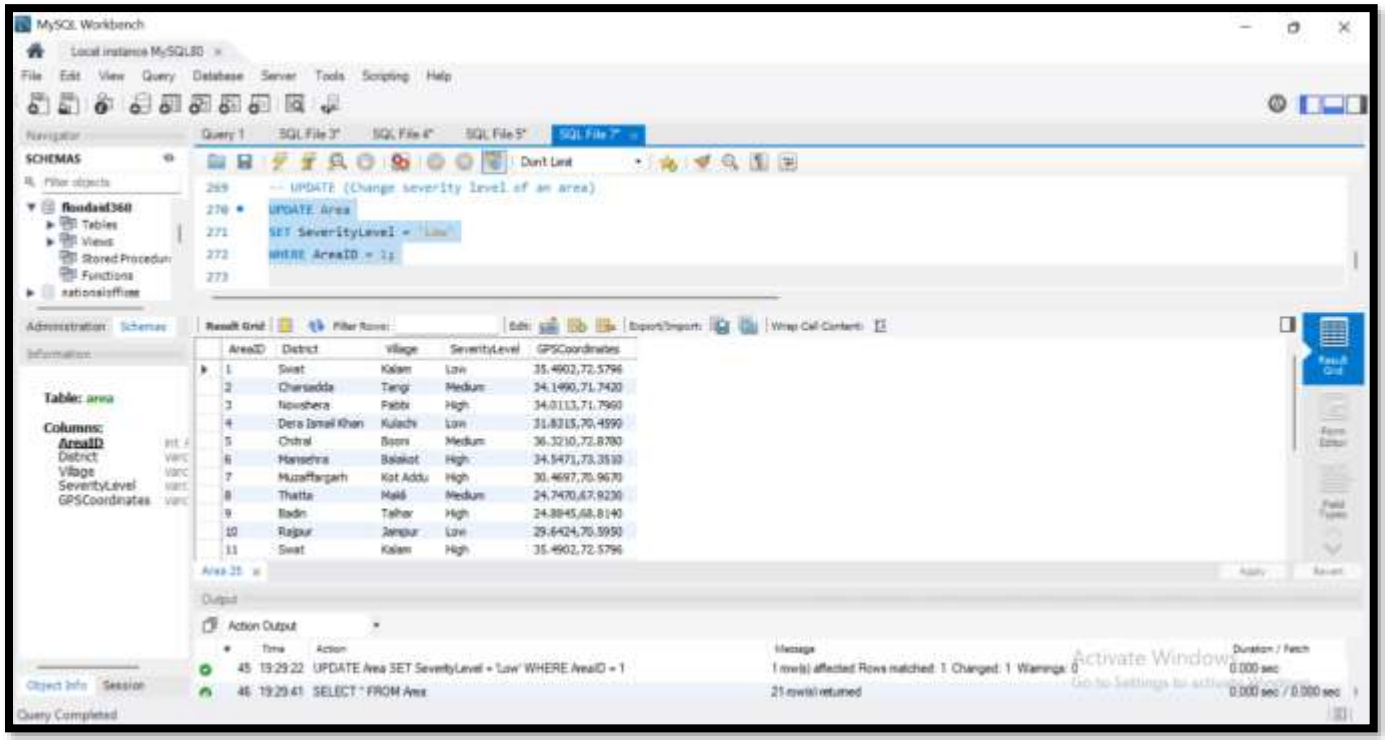
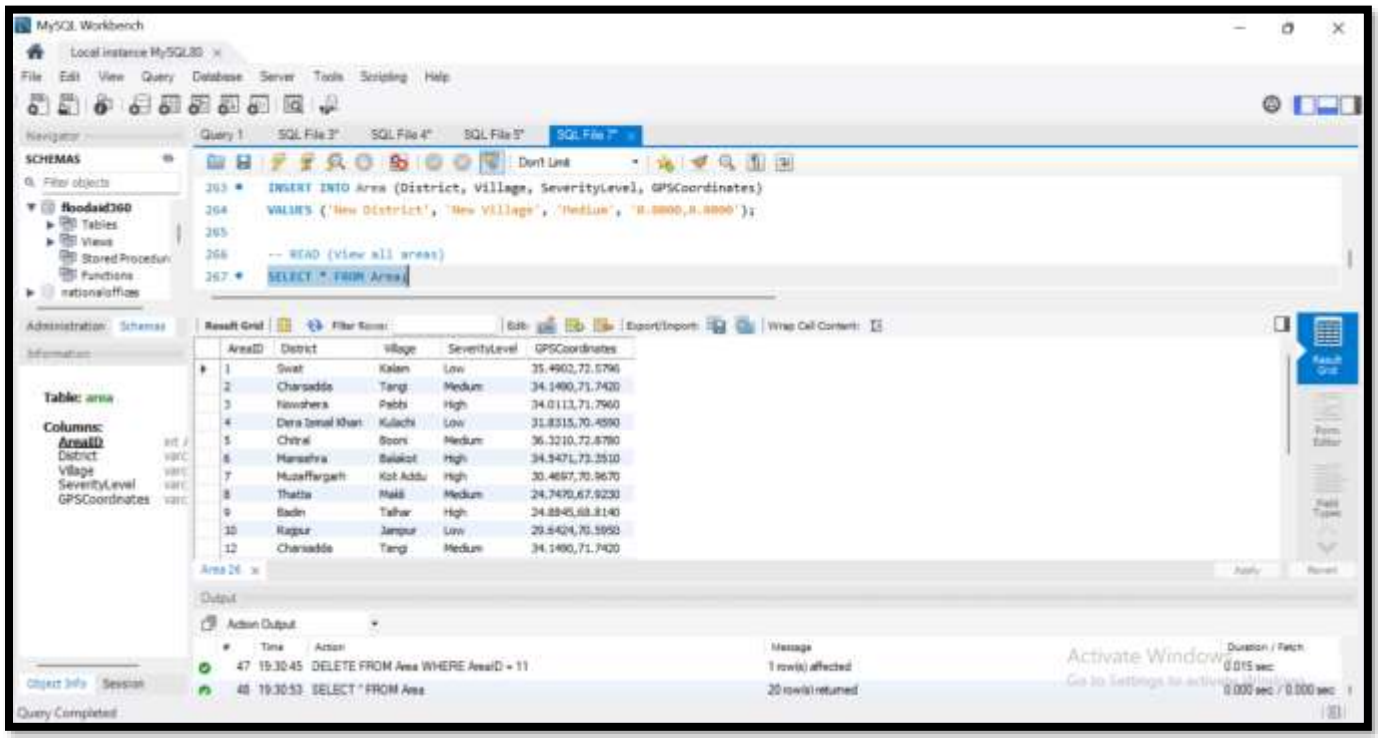
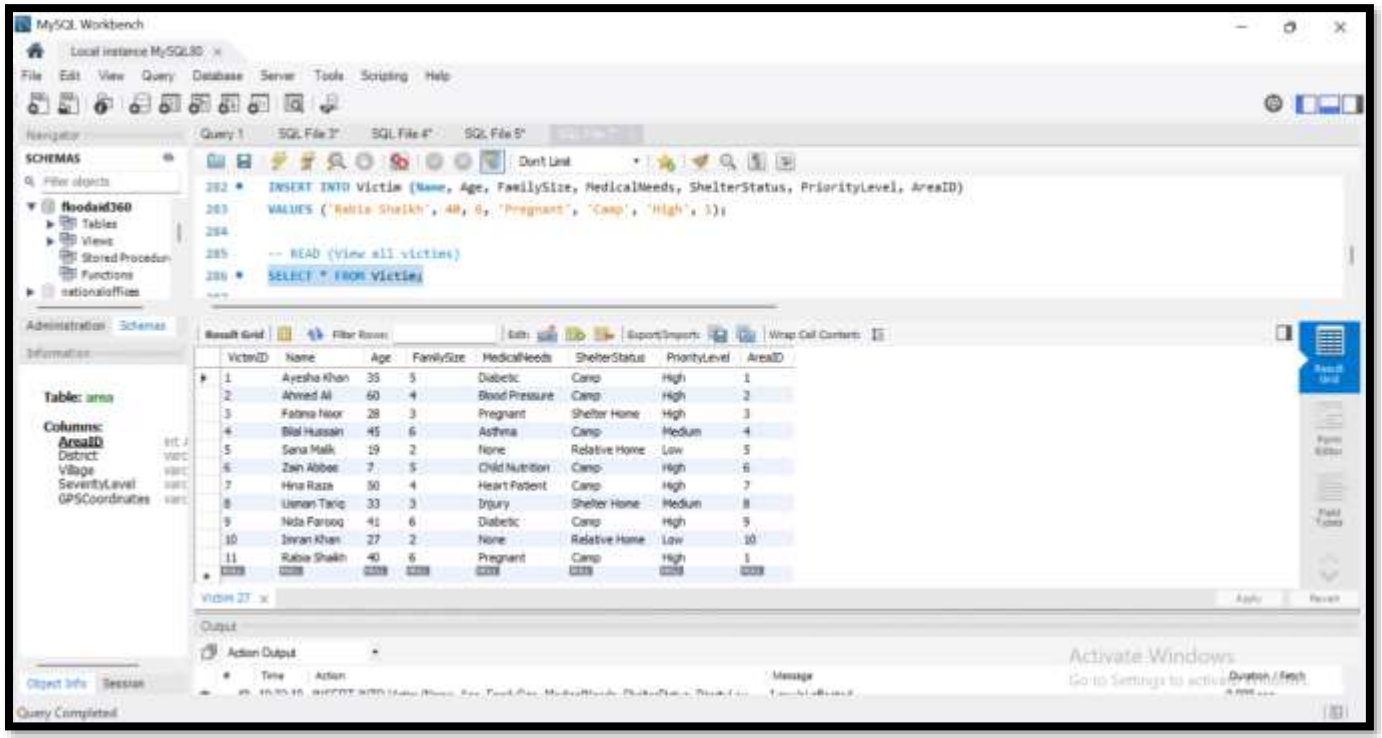
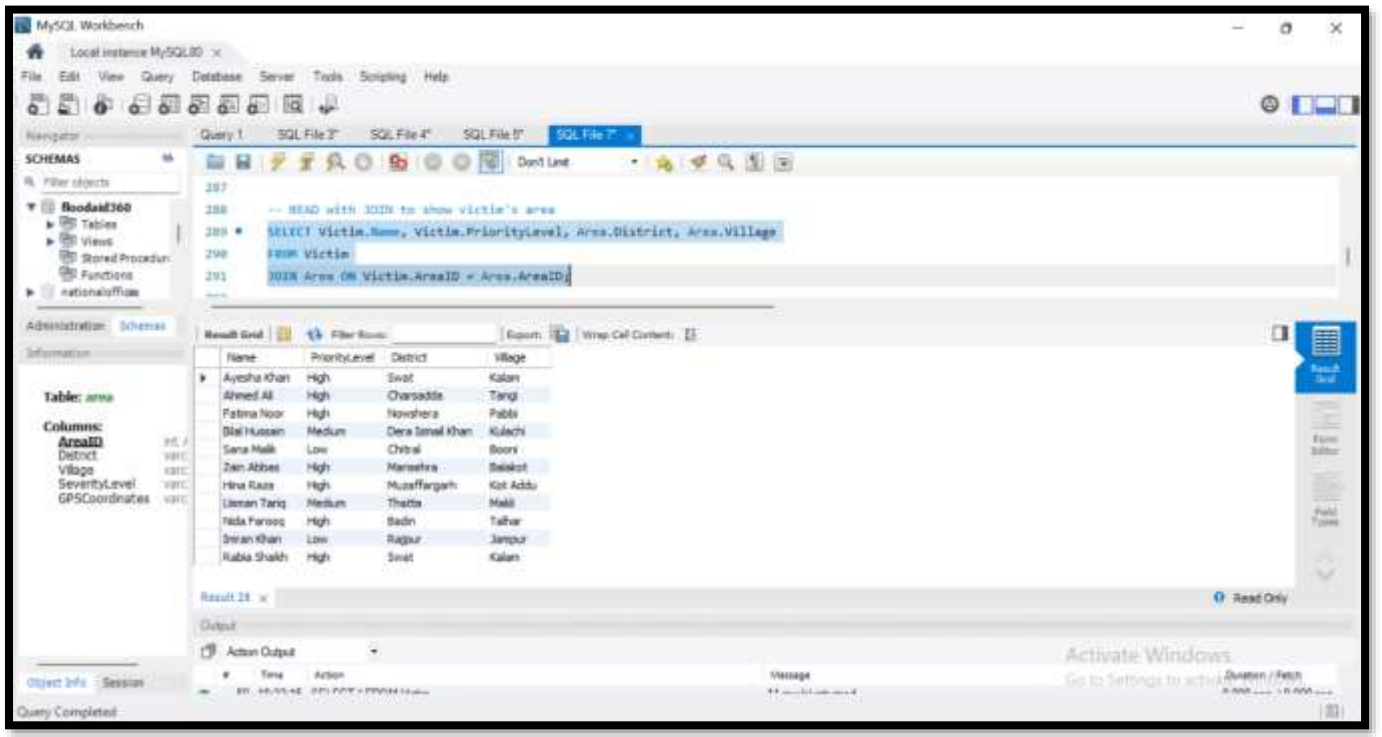
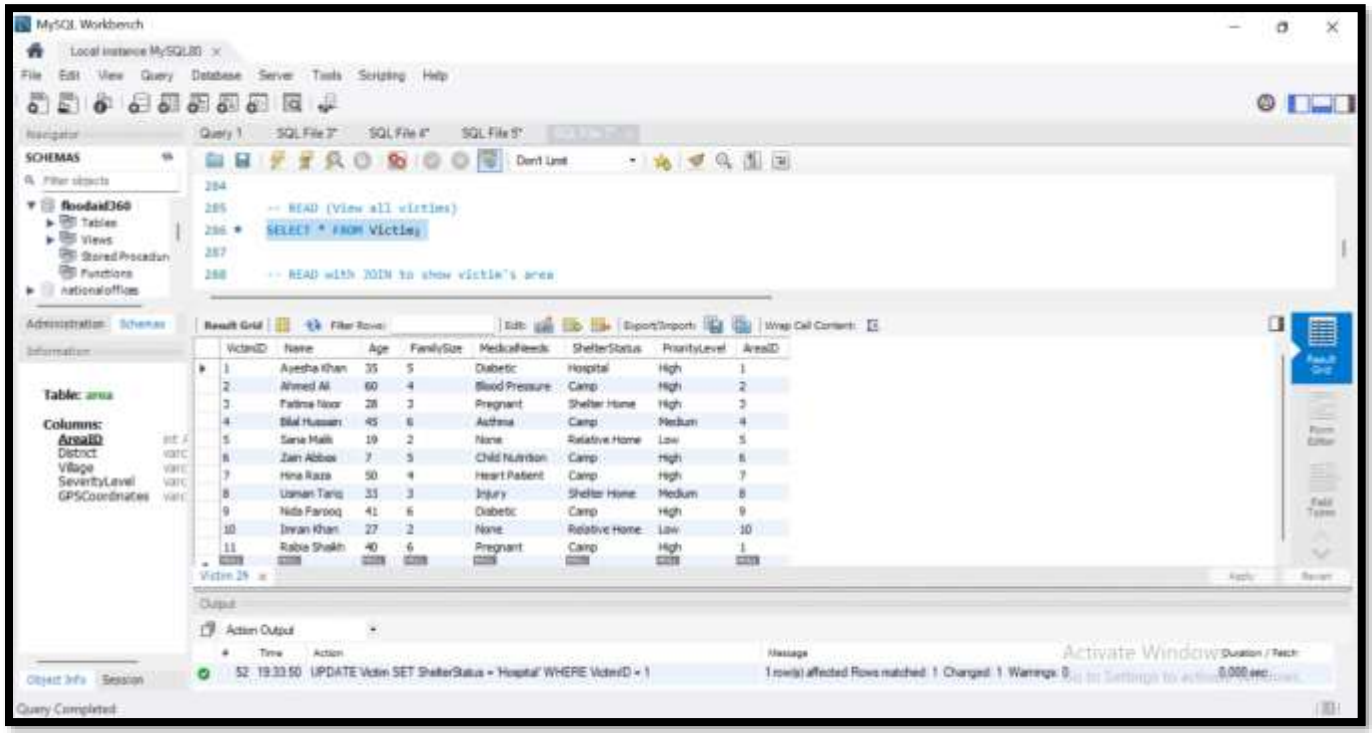
Stored Procedures
Functions
nationaloffices
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
263 • INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)
264 VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');
265
266 -- READ (View all areas)
267 • SELECT * FROM Area;
Result Grid
AreaID District Village SeverityLevel GPSCoordinates
12 Charsadda Tangi Medium 34.1490,71.7420
13 Nowshera Pabbi High 34.0113,71.7960
14 Dera Ismail Khan Kulachi Low 31.8315,70.4590
15 Chitral Booni Medium 36.3210,72.8780
16 Mansehra Balakot High 34.5471,73.3510
17 Muzaffargarh Kot Addu High 30.4697,70.9670
18 Thatta Makli Medium 24.7470,67.9230
19 Badin Talhar High 24.8845,68.8140
20 Rajpur Jampur Low 29.6424,70.5950
21 New District New Vil... Medium 0.0000,0.0000
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
Time Action Message Duration / Fetch
43 19:28:32 INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES ('New Di... 1 row(s) affected 0.015 sec
44 19:28:37 SELECT * FROM Area 21 row(s) returned 0.000 sec / 0.000 sec
Query Completed

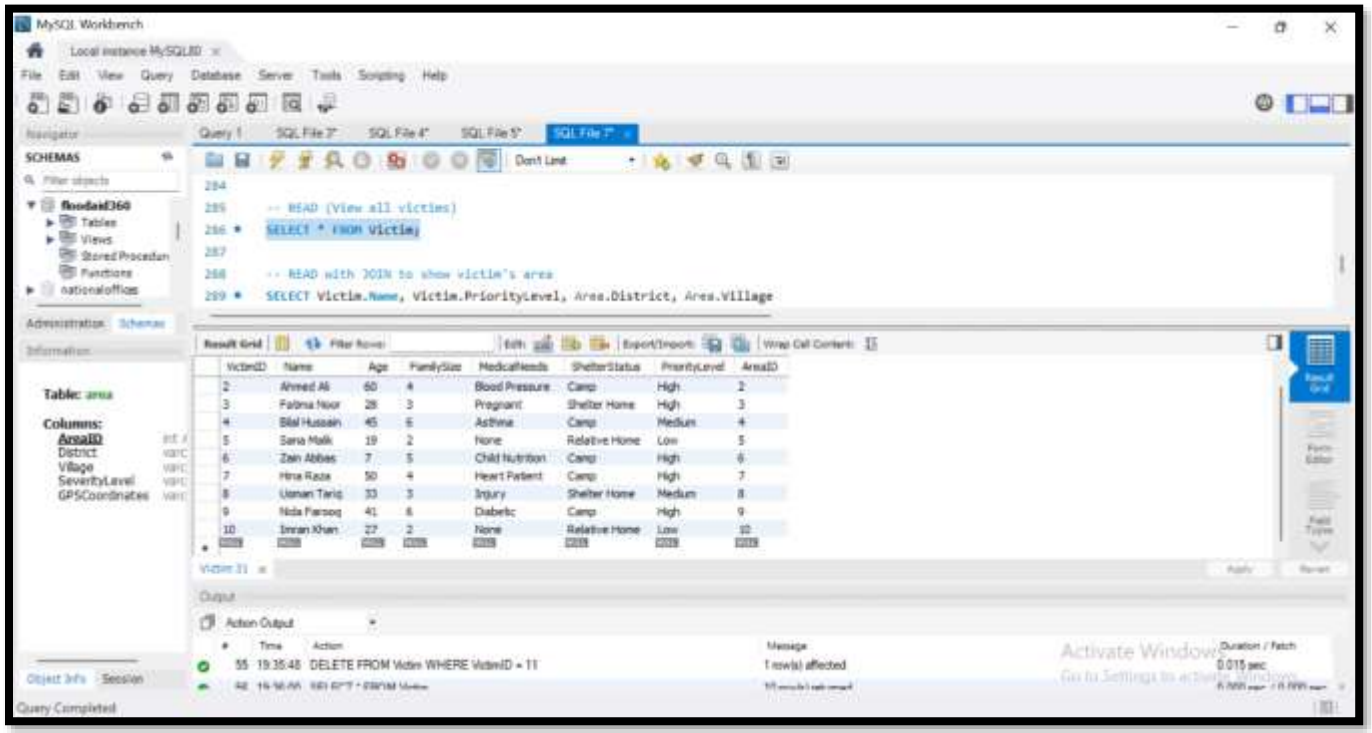

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
269 -- UPDATE (Change severity level of an area)
270 • UPDATE Area
271 SET SeverityLevel = 'Low'
272 WHERE AreaID = 1;
273
Result Grid
AreaID District Village SeverityLevel GPSCoordinates
1 Swat Kalam Low 35.4902,72.5796
2 Charsadda Tangi Medium 34.1490,71.7420
3 Nowshera Pabbi High 34.0113,71.7960
4 Dera Ismail Khan Kulachi Low 31.8315,70.4590
5 Chitral Booni Medium 36.3210,72.8780
6 Mansehra Balakot High 34.5471,73.3510
7 Muzaffargarh Kot Addu High 30.4697,70.9670
8 Thatta Makli Medium 24.7470,67.9230
9 Badin Talhar High 24.8845,68.8140
10 Rajpur Jampur Low 29.6424,70.5950
11 Swat Kalam High 35.4902,72.5796
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
45 19:29:22 UPDATE Area SET SeverityLevel = 'Low' WHERE AreaID = 1
1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
46 19:29:41 SELECT * FROM Area
21 row(s) returned
Query Completed

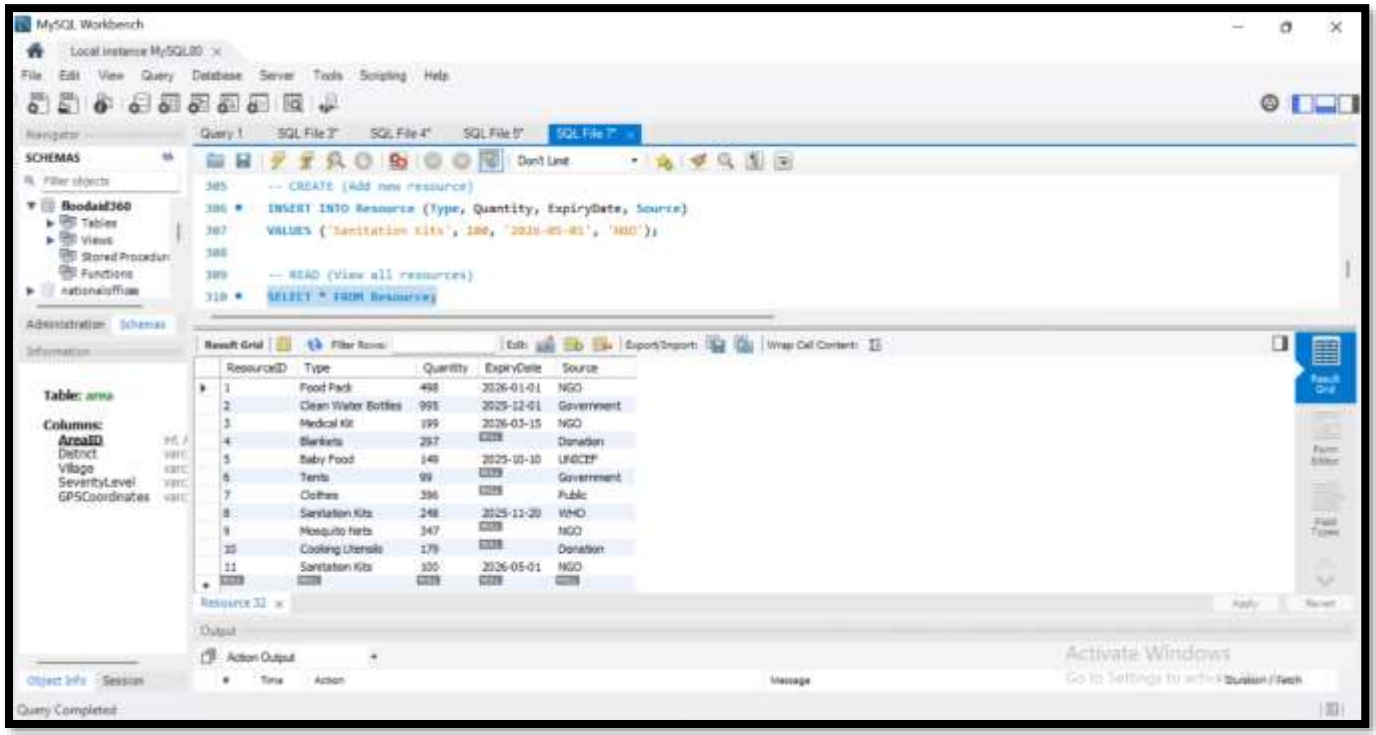

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
263 • INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)
264 VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');
265
266 -- READ (View all areas)
267 • SELECT * FROM Area;
Result Grid
AreaID District Village SeverityLevel GPSCoordinates
1 Swat Kalam Low 35.4902,72.5796
2 Charsadda Tangi Medium 34.1490,71.7420
3 Nowshera Pabbi High 34.0113,71.7960
4 Dera Ismail Khan Kulachi Low 31.8315,70.4590
5 Chitral Booni Medium 36.3210,72.8780
6 Mansehra Balakot High 34.5471,73.3510
7 Muzaffargarh Kot Addu High 30.4697,70.9670
8 Thatta Makli Medium 24.7470,67.9230
9 Badin Talhar High 24.8845,68.8140
10 Rajpur Jampur Low 29.6424,70.5950
12 Charsadda Tangi Medium 34.1490,71.7420
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
47 19:30:45 DELETE FROM Area WHERE AreaID = 11
1 row(s) affected
48 19:30:53 SELECT * FROM Area
20 row(s) returned
Query Completed

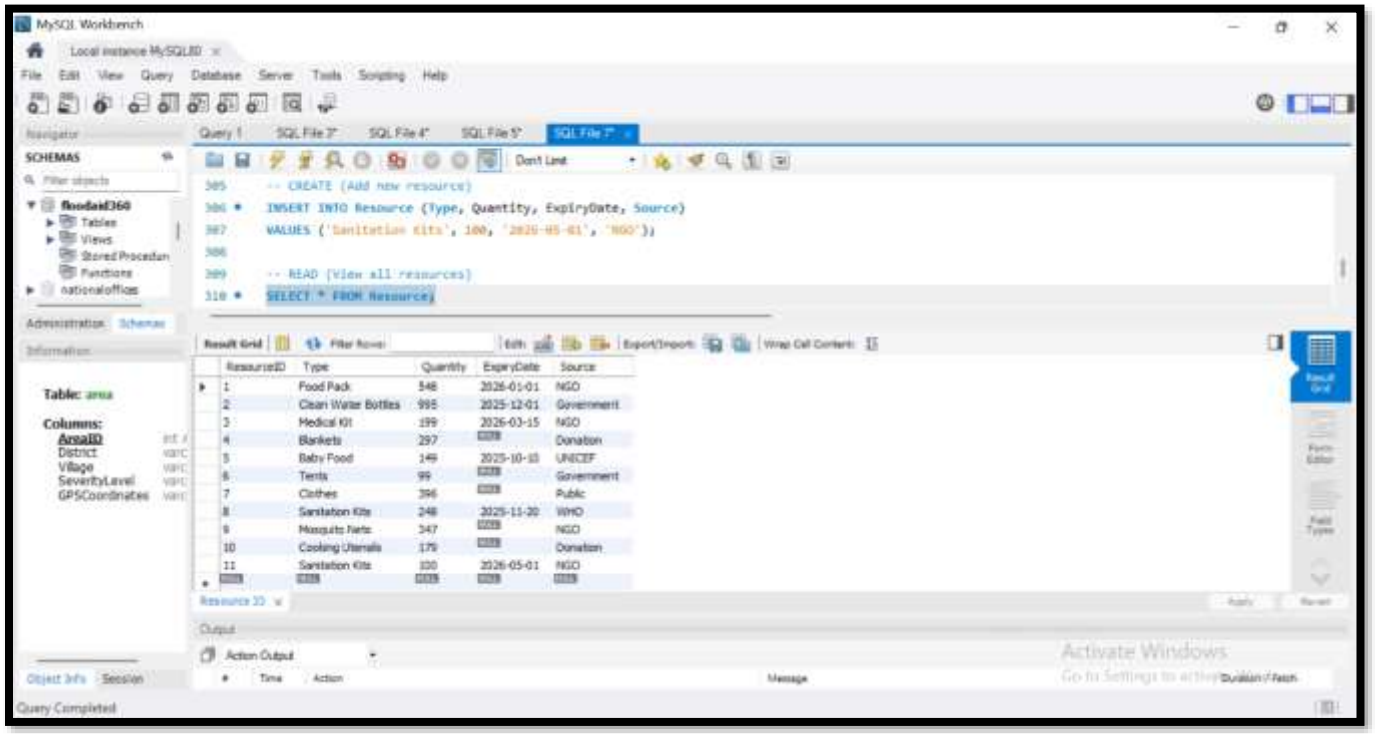

MySQL Workbench
INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)
VALUES ('Rabia Shaikh', 40, 6, 'Pregnant', 'Camp', 'High', 1);
-- READ (View all victims)
SELECT * FROM Victim;
VictimID Name Age FamilySize MedicalNeeds ShelterStatus PriorityLevel AreaID
1 Ayesha Khan 35 5 Diabetic Camp High 1
2 Ahmed Ali 60 4 Blood Pressure Camp High 2
3 Fatima Noor 28 3 Pregnant Shelter Home High 3
4 Bilal Hussain 45 6 Asthma Camp Medium 4
5 Sana Malik 19 2 None Relative Home Low 5
6 Zain Abbas 7 5 Child Nutrition Camp High 6
7 Hina Raza 50 4 Heart Patient Camp High 7
8 Usman Tariq 33 3 Injury Shelter Home Medium 8
9 Nida Farooq 41 6 Diabetic Camp High 9
10 Imran Khan 27 2 None Relative Home Low 10
11 Rabia Shaikh 40 6 Pregnant Camp High 1
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Query Completed

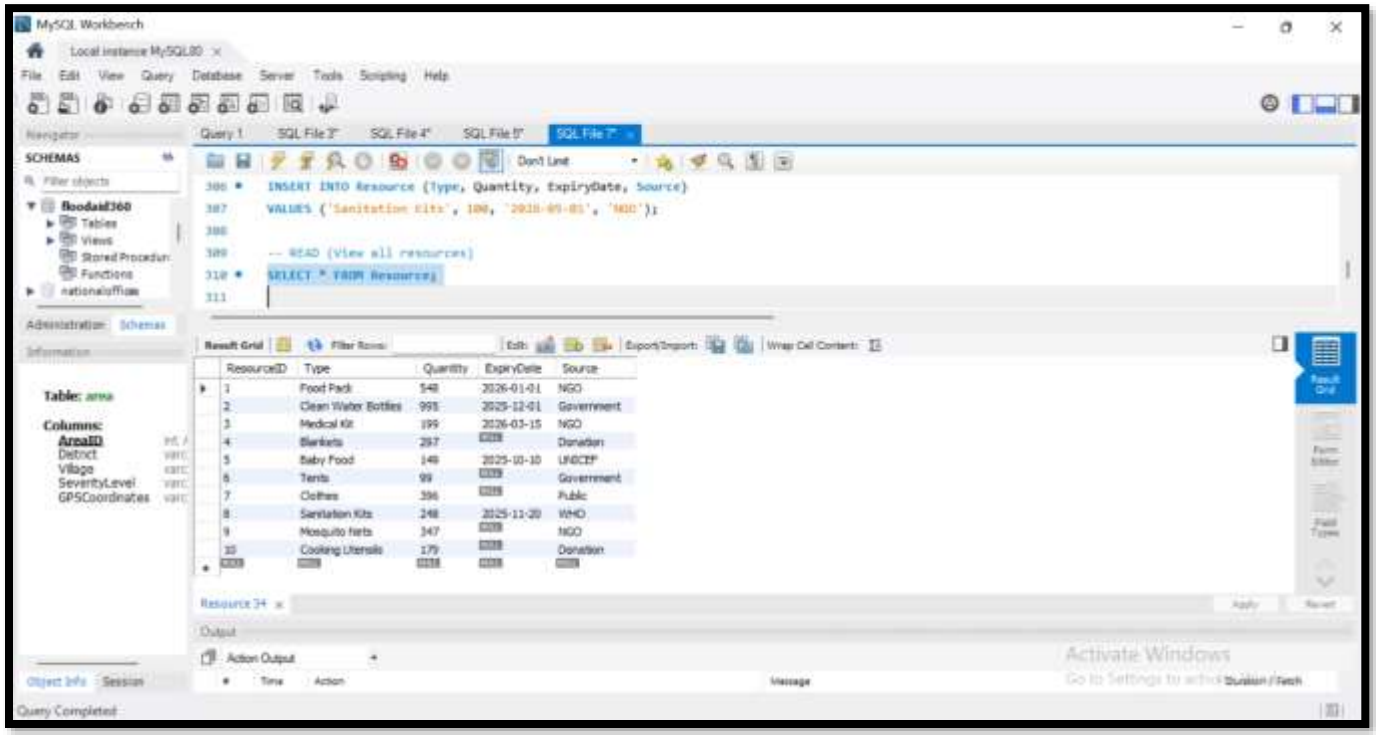

MySQL Workbench
-- READ with JOIN to show victim's area
SELECT Victim.Name, Victim.PriorityLevel, Area.District, Area.Village
FROM Victim
JOIN Area ON Victim.AreaID = Area.AreaID;
Name PriorityLevel District Village
Ayesha Khan High Swat Kalam
Ahmed Ali High Charsadda Tangi
Fatima Noor High Nowshera Pabbi
Bilal Hussain Medium Dera Ismail Khan Kulachi
Sana Malik Low Chitral Booni
Zain Abbas High Mansehra Balakot
Hina Raza High Muzaffargarh Kot Addu
Usman Tariq Medium Thatta Makli
Nida Farooq High Badin Talhar
Imran Khan Low Rajpur Jampur
Rabia Shaikh High Swat Kalam
Read Only
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Query Completed

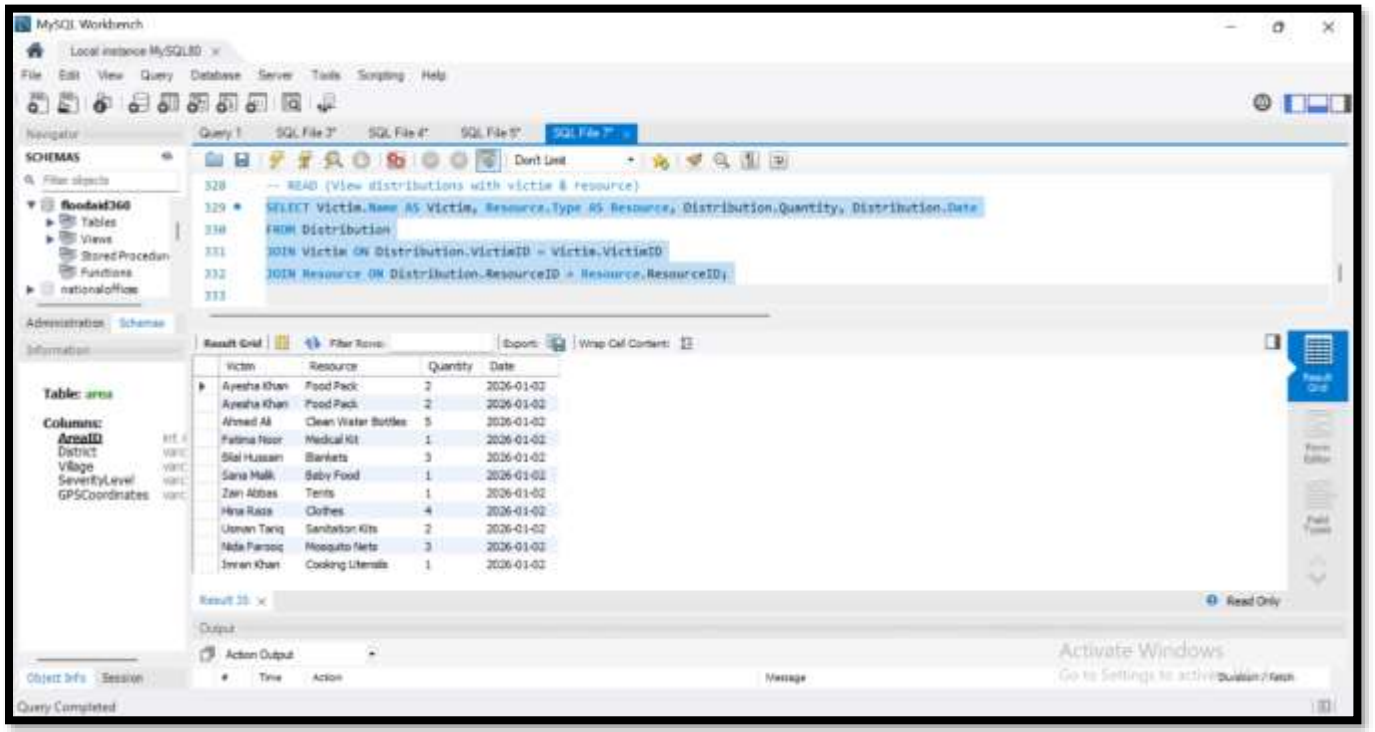

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
-- READ (View all victims)
SELECT * FROM Victim;
-- READ with JOIN to show victim's area
Result Grid
VictimID Name Age FamilySize MedicalNeeds ShelterStatus PriorityLevel AreaID
1 Ayesha Khan 35 5 Diabetic Hospital High 1
2 Ahmed Ali 60 4 Blood Pressure Camp High 2
3 Fatima Noor 28 3 Pregnant Shelter Home High 3
4 Bilal Hussain 45 6 Asthma Camp Medium 4
5 Sana Malik 19 2 None Relative Home Low 5
6 Zain Abbas 7 5 Child Nutrition Camp High 6
7 Hina Raza 50 4 Heart Patient Camp High 7
8 Usman Tariq 33 3 Injury Shelter Home Medium 8
9 Nida Farooq 41 6 Diabetic Camp High 9
10 Imran Khan 27 2 None Relative Home Low 10
11 Rabia Shaikh 40 6 Pregnant Camp High 1
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
Time Action Message Duration / Fetch
52 19:33:50 UPDATE Victim SET ShelterStatus = 'Hospital' WHERE VictimID = 1 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.000 sec
Query Completed

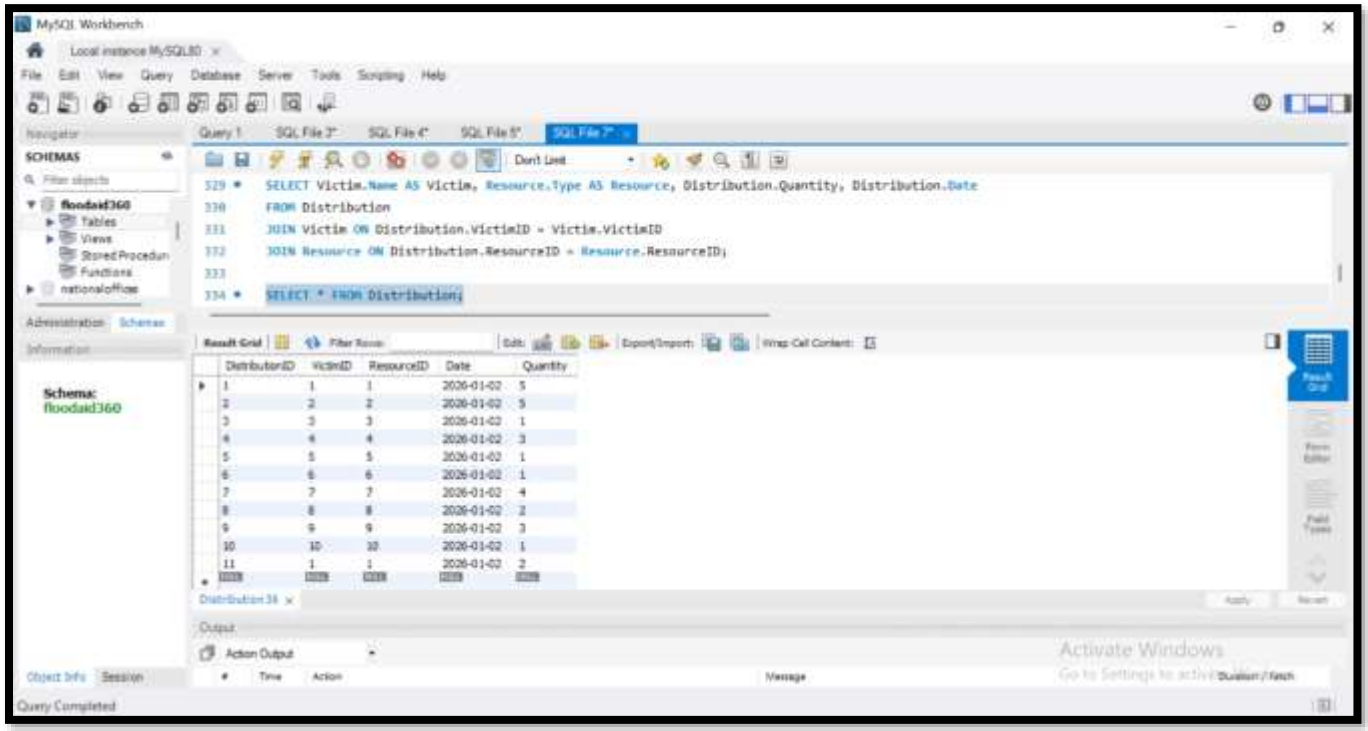

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
-- READ (View all victims)
SELECT * FROM Victim;
-- READ with JOIN to show victim's area
SELECT Victim.Name, Victim.PriorityLevel, Area.District, Area.Village
Result Grid
VictimID Name Age FamilySize MedicalNeeds ShelterStatus PriorityLevel AreaID
2 Ahmed Ali 60 4 Blood Pressure Camp High 2
3 Fatima Noor 28 3 Pregnant Shelter Home High 3
4 Bilal Hussain 45 6 Asthma Camp Medium 4
5 Sana Malik 19 2 None Relative Home Low 5
6 Zain Abbas 7 5 Child Nutrition Camp High 6
7 Hina Raza 50 4 Heart Patient Camp High 7
8 Usman Tariq 33 3 Injury Shelter Home Medium 8
9 Nida Farooq 41 6 Diabetic Camp High 9
10 Imran Khan 27 2 None Relative Home Low 10
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Output
Action Output
Time Action Message Duration / Fetch
55 19:35:48 DELETE FROM Victim WHERE VictimID = 11 1 row(s) affected 0.015 sec
Query Completed

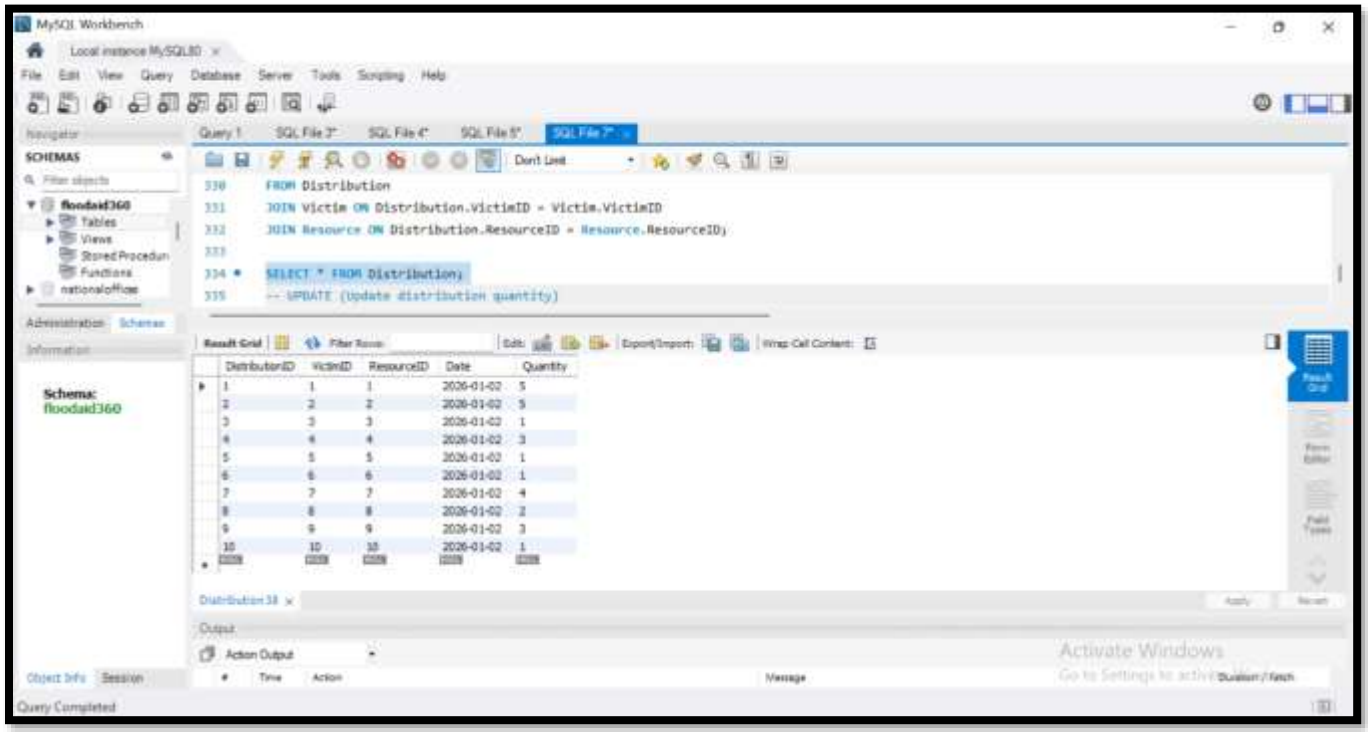

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Administration Schemas
Information
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
385 -- CREATE (Add new resource)
386 INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
387 VALUES ('Sanitation Kits', 100, '2026-05-01', 'NGO');
388
389 -- READ (View all resources)
390 SELECT * FROM Resource;
Result Grid
ResourceID Type Quantity ExpiryDate Source
1 Food Pack 498 2026-01-01 NGO
2 Clean Water Bottles 995 2025-12-01 Government
3 Medical Kit 199 2026-03-15 NGO
4 Blankets 297 Donation
5 Baby Food 149 2025-10-10 UNICEF
6 Tents 99 Government
7 Clothes 396 Public
8 Sanitation Kits 248 2025-11-20 WHO
9 Mosquito Nets 347 NGO
10 Cooking Utensils 179 Donation
11 Sanitation Kits 100 2026-05-01 NGO
Resource 32
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

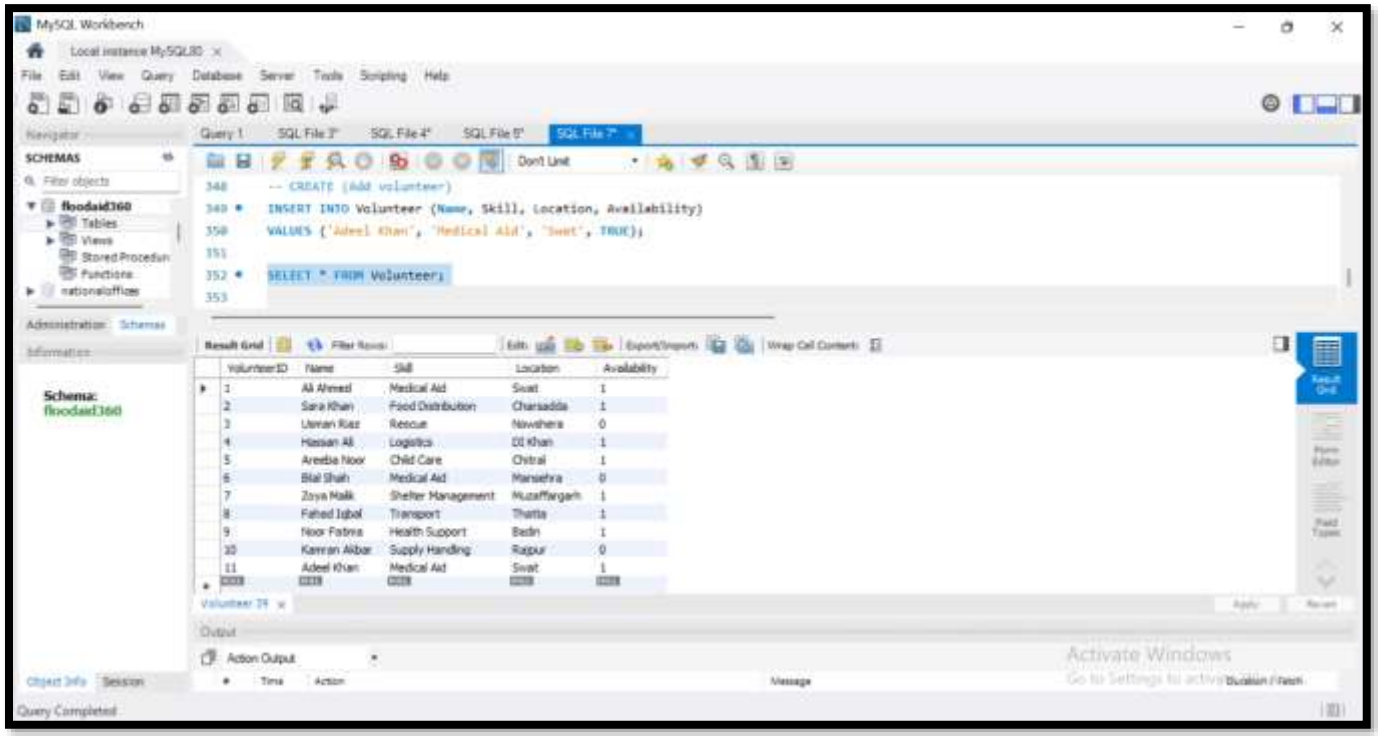

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Administration Schemas
Information
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
385 -- CREATE (Add new resource)
386 INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
387 VALUES ('Sanitation Kits', 100, '2026-05-01', 'NGO');
388
389 -- READ (View all resources)
390 SELECT * FROM Resource;
Result Grid
ResourceID Type Quantity ExpiryDate Source
1 Food Pack 498 2026-01-01 NGO
2 Clean Water Bottles 995 2025-12-01 Government
3 Medical Kit 199 2026-03-15 NGO
4 Blankets 297 Donation
5 Baby Food 149 2025-10-10 UNICEF
6 Tents 99 Government
7 Clothes 396 Public
8 Sanitation Kits 248 2025-11-20 WHO
9 Mosquito Nets 347 NGO
10 Cooking Utensils 179 Donation
11 Sanitation Kits 100 2026-05-01 NGO
Resource 33
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

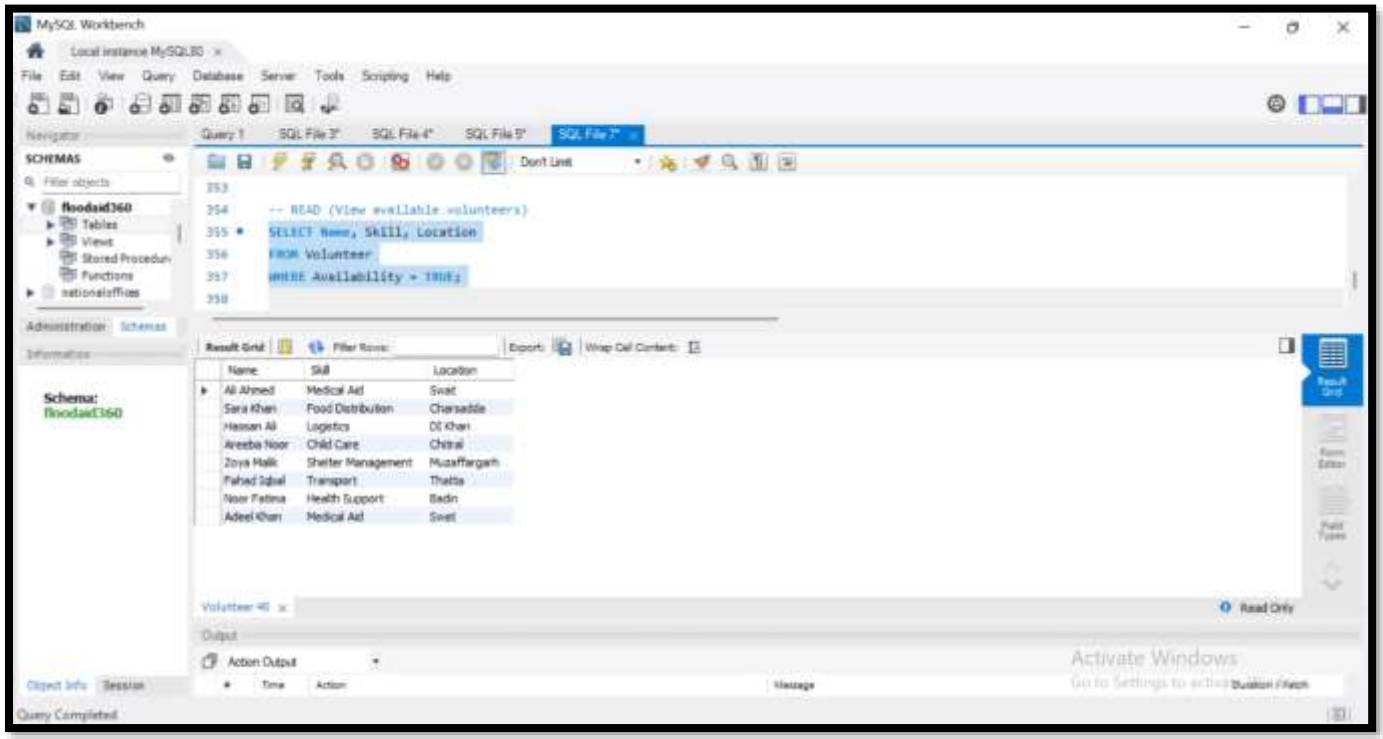

MySQL Workbench
INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
VALUES ('Sanitation Kits', 100, '2026-09-01', 'NGO');
-- READ (View all resources)
SELECT * FROM Resource;
ResourceID Type Quantity ExpiryDate Source
1 Food Pack 548 2026-01-01 NGO
2 Clean Water Bottles 995 2025-12-01 Government
3 Medical Kit 199 2026-03-15 NGO
4 Blankets 297 Donation
5 Baby Food 149 2025-10-10 UNICEF
6 Tents 99 Government
7 Clothes 396 Public
8 Sanitation Kits 248 2025-11-20 WHO
9 Mosquito Nets 347 NGO
10 Cooking Utensils 179 Donation
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Query Completed

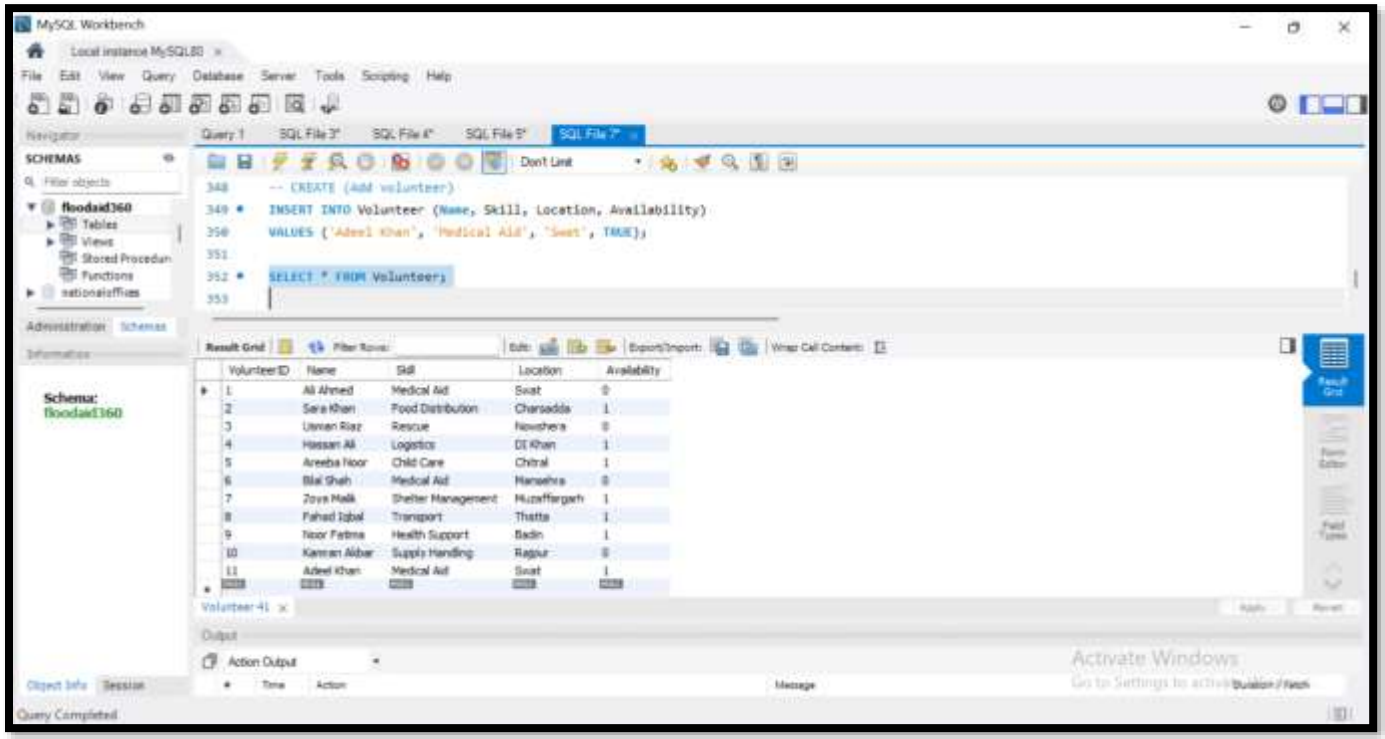

MySQL Workbench
-- READ (View distributions with victim & resource)
SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
Victim Resource Quantity Date
Ayesha Khan Food Pack 2 2026-01-02
Ayesha Khan Food Pack 2 2026-01-02
Ahmed Ali Clean Water Bottles 5 2026-01-02
Fatima Noor Medical Kit 1 2026-01-02
Bilal Hussain Blankets 3 2026-01-02
Sana Malik Baby Food 1 2026-01-02
Zain Abbas Tents 1 2026-01-02
Hina Raza Clothes 4 2026-01-02
Usman Tariq Sanitation Kits 2 2026-01-02
Nida Farooq Mosquito Nets 3 2026-01-02
Imran Khan Cooking Utensils 1 2026-01-02
Table: area
Columns:
AreaID
District
Village
SeverityLevel
GPSCoordinates
Query Completed

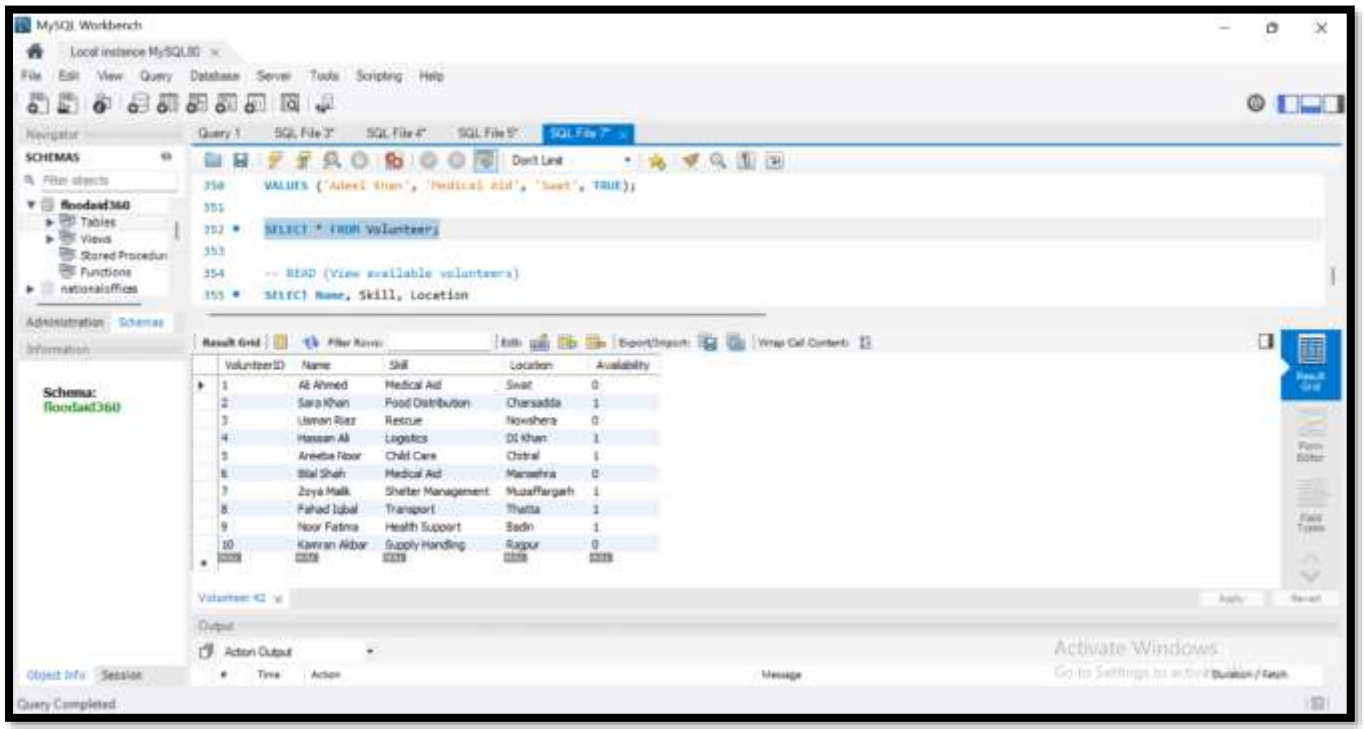

MySQL Workbench
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
SELECT * FROM Distribution;
Result Grid
DistributionID VictimID ResourceID Date Quantity
1 1 1 2026-01-02 5
2 2 2 2026-01-02 5
3 3 3 2026-01-02 1
4 4 4 2026-01-02 3
5 5 5 2026-01-02 1
6 6 6 2026-01-02 1
7 7 7 2026-01-02 4
8 8 8 2026-01-02 2
9 9 9 2026-01-02 3
10 10 10 2026-01-02 1
11 1 1 2026-01-02 2
Output
Action Output
Time
Action
Message
Activate Windows
Query Completed

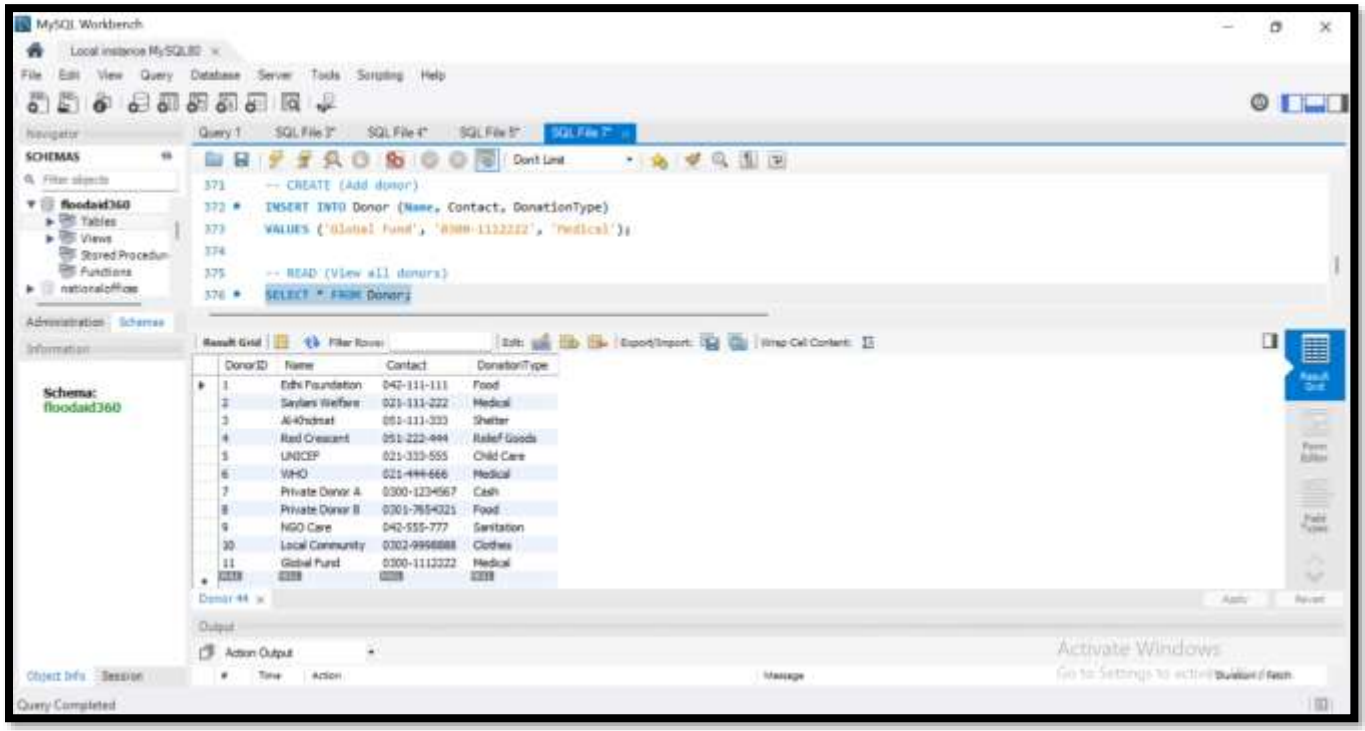

MySQL Workbench
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
SELECT * FROM Distribution;
-- UPDATE (Update distribution quantity)
Result Grid
DistributionID VictimID ResourceID Date Quantity
1 1 1 2026-01-02 5
2 2 2 2026-01-02 5
3 3 3 2026-01-02 1
4 4 4 2026-01-02 3
5 5 5 2026-01-02 1
6 6 6 2026-01-02 1
7 7 7 2026-01-02 4
8 8 8 2026-01-02 2
9 9 9 2026-01-02 3
10 10 10 2026-01-02 1
Output
Action Output
Time
Action
Message
Activate Windows
Query Completed

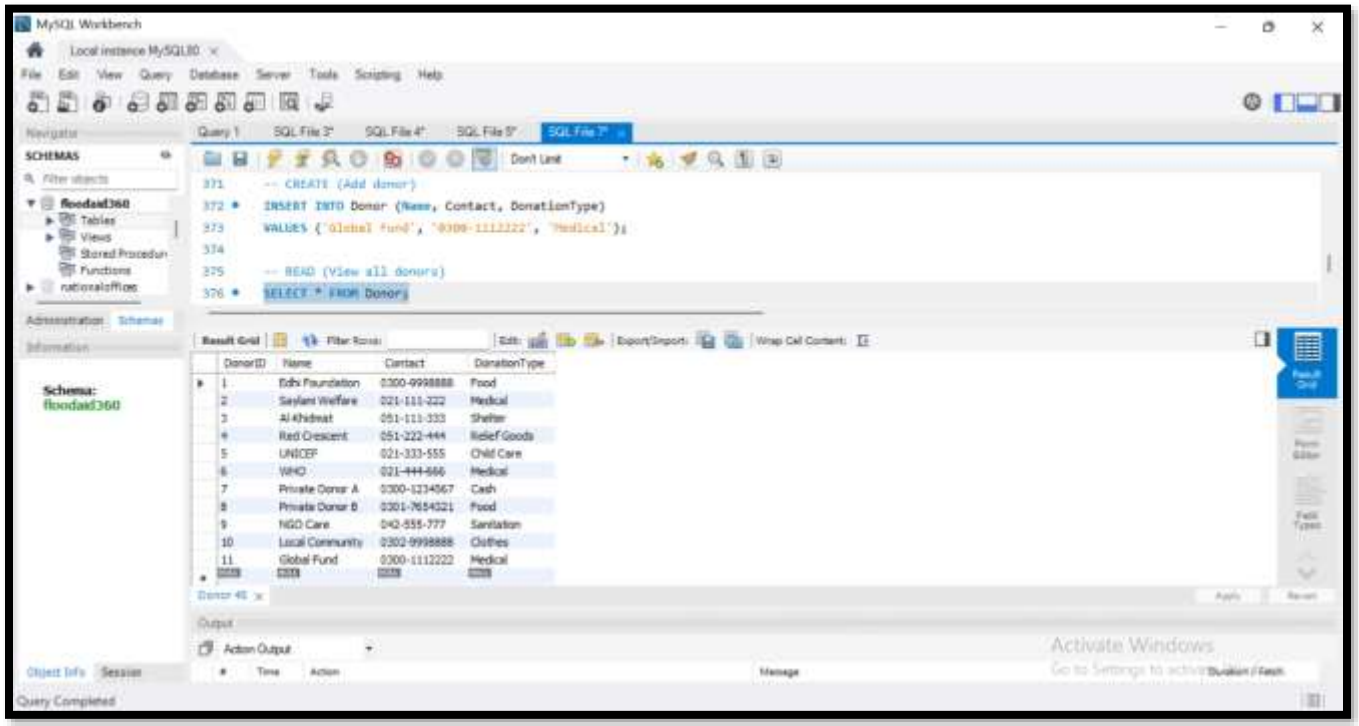

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
348 -- CREATE (Add volunteer)
349 INSERT INTO Volunteer (Name, Skill, Location, Availability)
350 VALUES ('Adeel Khan', 'Medical Aid', 'Swat', TRUE);
351
352 SELECT * FROM Volunteer;
353
Result Grid
VolunteerID Name Skill Location Availability
1 Ali Ahmed Medical Aid Swat 1
2 Sara Khan Food Distribution Charsadda 1
3 Usman Riaz Rescue Nowshera 0
4 Hassan Ali Logistics DI Khan 1
5 Areeba Noor Child Care Chitral 1
6 Bilal Shah Medical Aid Mansehra 0
7 Zoya Malik Shelter Management Muzaffargarh 1
8 Fahad Iqbal Transport Thatta 1
9 Noor Fatima Health Support Badin 1
10 Kamran Akbar Supply Handling Rajpur 0
11 Adeel Khan Medical Aid Swat 1
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows

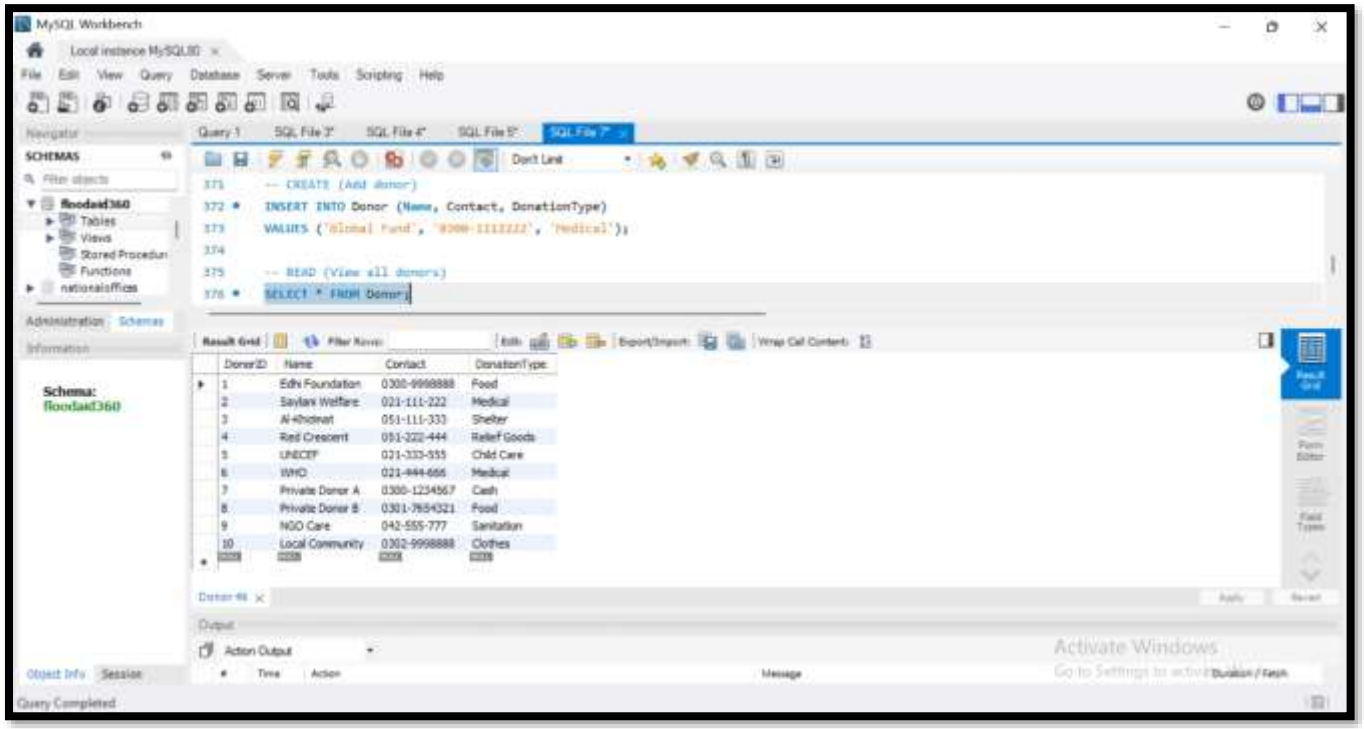

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
353
354 -- READ (View available volunteers)
355 SELECT Name, Skill, Location
356 FROM Volunteer
357 WHERE Availability = TRUE;
358
Result Grid
Name Skill Location
Ali Ahmed Medical Aid Swat
Sara Khan Food Distribution Charsadda
Hassan Ali Logistics DI Khan
Areeba Noor Child Care Chitral
Zoya Malik Shelter Management Muzaffargarh
Fahad Iqbal Transport Thatta
Noor Fatima Health Support Badin
Adeel Khan Medical Aid Swat
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows

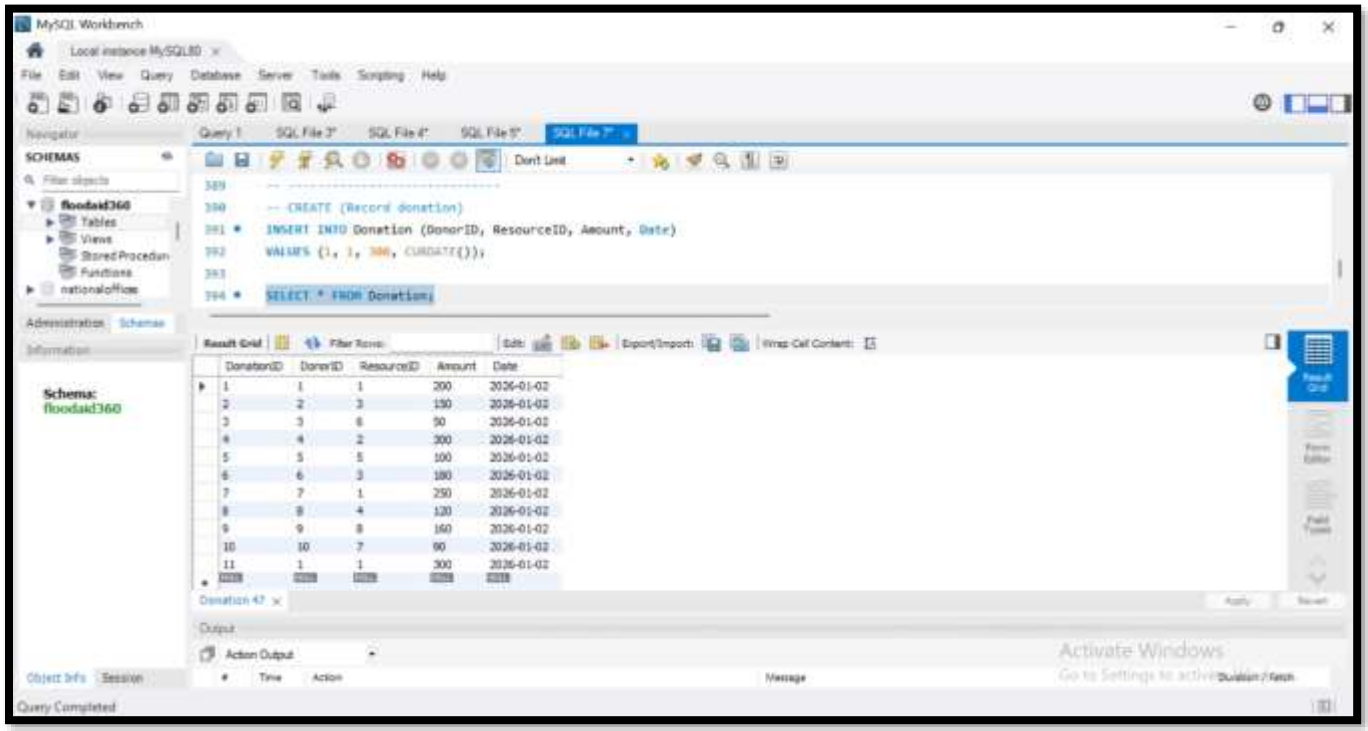

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
348 -- CREATE (Add volunteer)
349 INSERT INTO Volunteer (Name, Skill, Location, Availability)
350 VALUES ('Adeel Khan', 'Medical Aid', 'Swat', TRUE);
351
352 SELECT * FROM Volunteer;
353
Result Grid
VolunteerID Name Skill Location Availability
1 Ali Ahmed Medical Aid Swat 0
2 Sara Khan Food Distribution Charsadda 1
3 Usman Riaz Rescue Nowshera 0
4 Hassan Ali Logistics DI Khan 1
5 Areeba Noor Child Care Chitral 1
6 Bilal Shah Medical Aid Mansehra 0
7 Zoya Malik Shelter Management Muzaffargarh 1
8 Fahad Iqbal Transport Thatta 1
9 Noor Fatima Health Support Badin 1
10 Kamran Akbar Supply Handling Ragpur 0
11 Adeel Khan Medical Aid Swat 1
Volunteer 41
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows

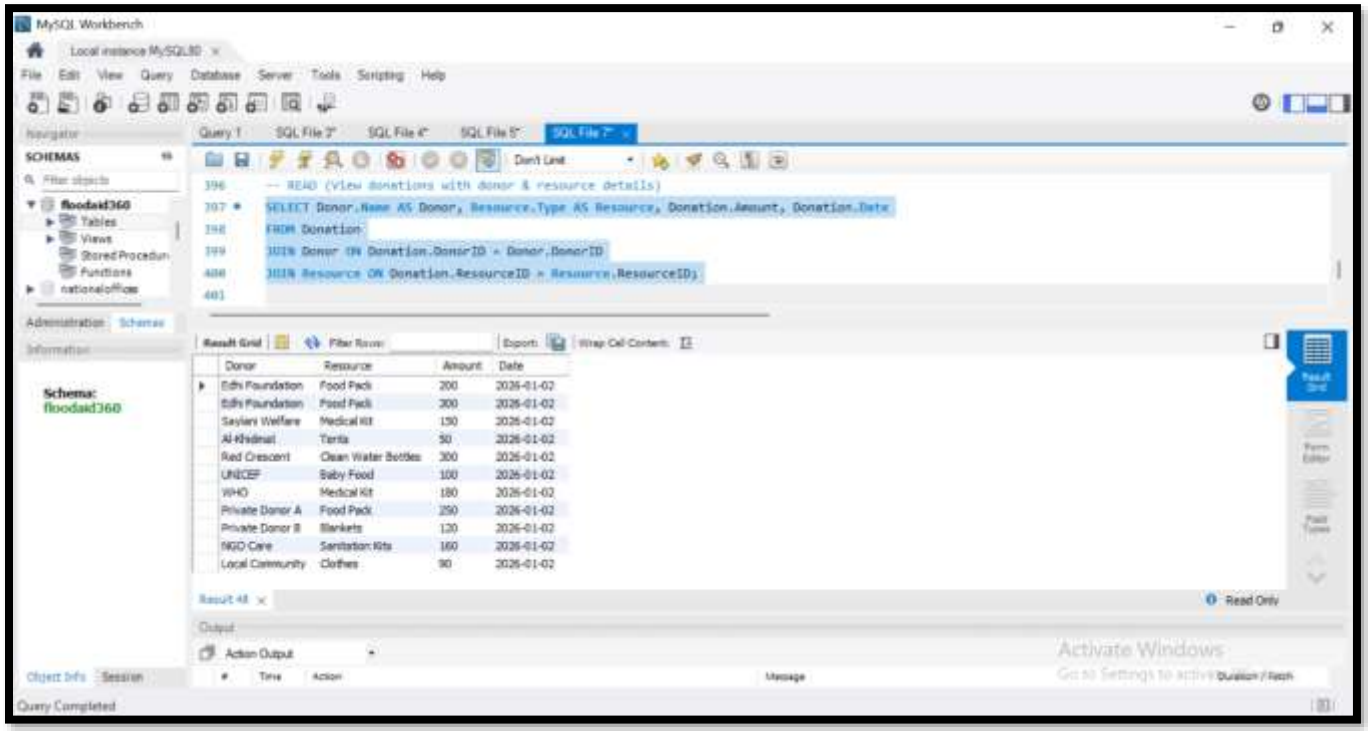

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
350 VALUES ('Adeel Khan', 'Medical Aid', 'Swat', TRUE);
351
352 SELECT * FROM Volunteer;
353
354 -- READ (View available volunteers)
355 SELECT Name, Skill, Location
Result Grid
VolunteerID Name Skill Location Availability
1 Ali Ahmed Medical Aid Swat 0
2 Sara Khan Food Distribution Charsadda 1
3 Usman Riaz Rescue Nowshera 0
4 Hassan Ali Logistics DI Khan 1
5 Areeba Noor Child Care Chitral 1
6 Bilal Shah Medical Aid Mansehra 0
7 Zoya Malik Shelter Management Muzaffargarh 1
8 Fahad Iqbal Transport Thatta 1
9 Noor Fatima Health Support Badin 1
10 Kamran Akbar Supply Handling Ragpur 0
Volunteer 42
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows

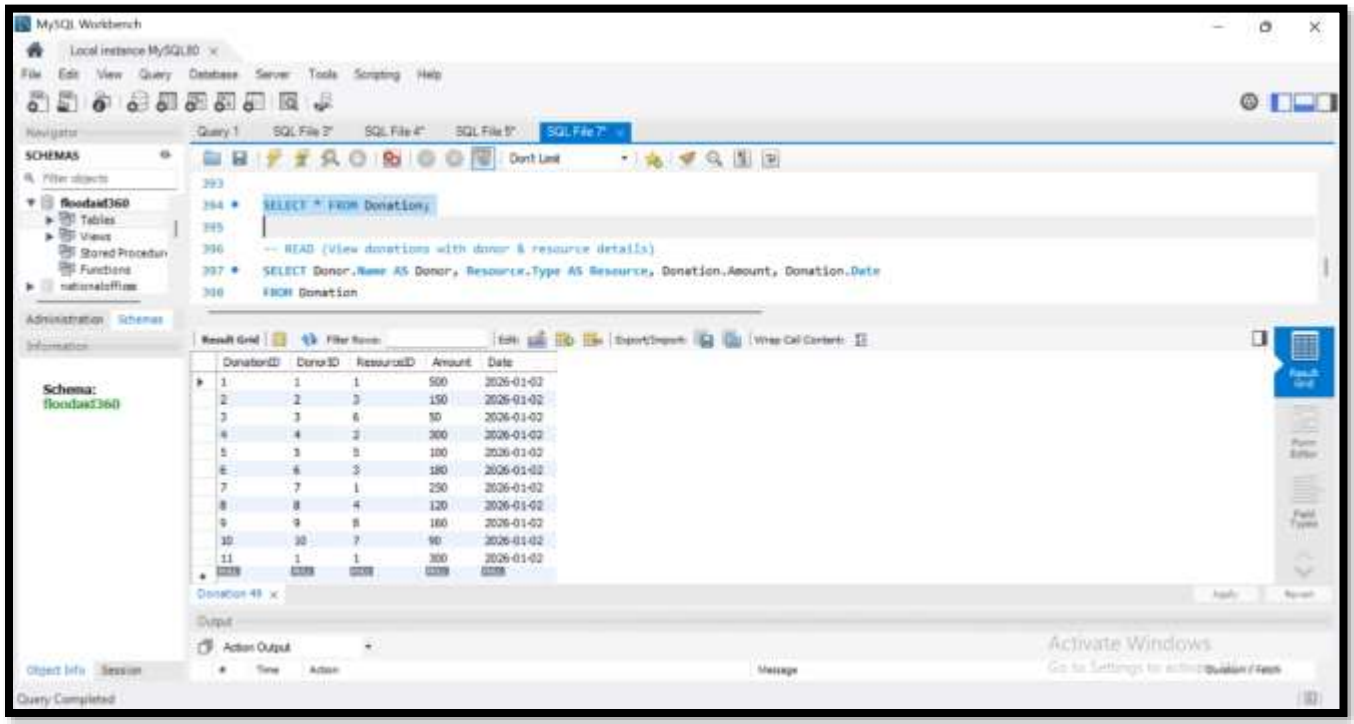

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationalofficer
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
371 -- CREATE (Add donor)
372 INSERT INTO Donor (Name, Contact, DonationType)
373 VALUES ('Global Fund', '0300-1112222', 'Medical');
374
375 -- READ (View all donors)
376 SELECT * FROM Donor;
Result Grid
DonorID Name Contact DonationType
1 Edhi Foundation 042-111-111 Food
2 Saylani Welfare 021-111-222 Medical
3 Al-Khidmat 051-111-333 Shelter
4 Red Crescent 051-222-444 Relief Goods
5 UNICEF 021-333-555 Child Care
6 WHO 021-444-666 Medical
7 Private Donor A 0300-1234567 Cash
8 Private Donor B 0301-7654321 Food
9 NGO Care 042-555-777 Sanitation
10 Local Community 0302-9998888 Clothes
11 Global Fund 0300-1112222 Medical
Output
Action Output
Query Completed
Activate Windows

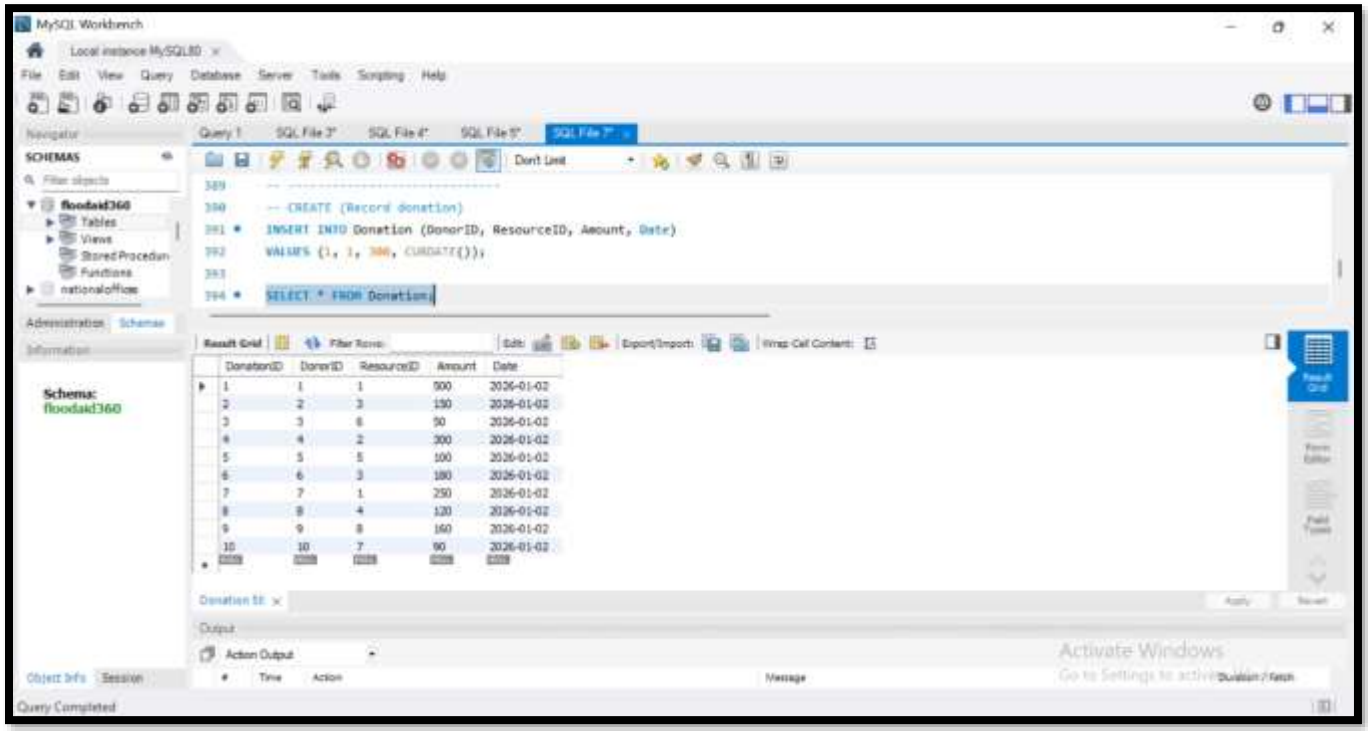

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationalofficer
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
371 -- CREATE (Add donor)
372 INSERT INTO Donor (Name, Contact, DonationType)
373 VALUES ('Global Fund', '0300-1112222', 'Medical');
374
375 -- READ (View all donors)
376 SELECT * FROM Donor;
Result Grid
DonorID Name Contact DonationType
1 Edhi Foundation 0300-9998888 Food
2 Saylani Welfare 021-111-222 Medical
3 Al-Khidmat 051-111-333 Shelter
4 Red Crescent 051-222-444 Relief Goods
5 UNICEF 021-333-555 Child Care
6 WHO 021-444-666 Medical
7 Private Donor A 0300-1234567 Cash
8 Private Donor B 0301-7654321 Food
9 NGO Care 042-555-777 Sanitation
10 Local Community 0302-9998888 Clothes
11 Global Fund 0300-1112222 Medical
Output
Action Output
Query Completed
Activate Windows

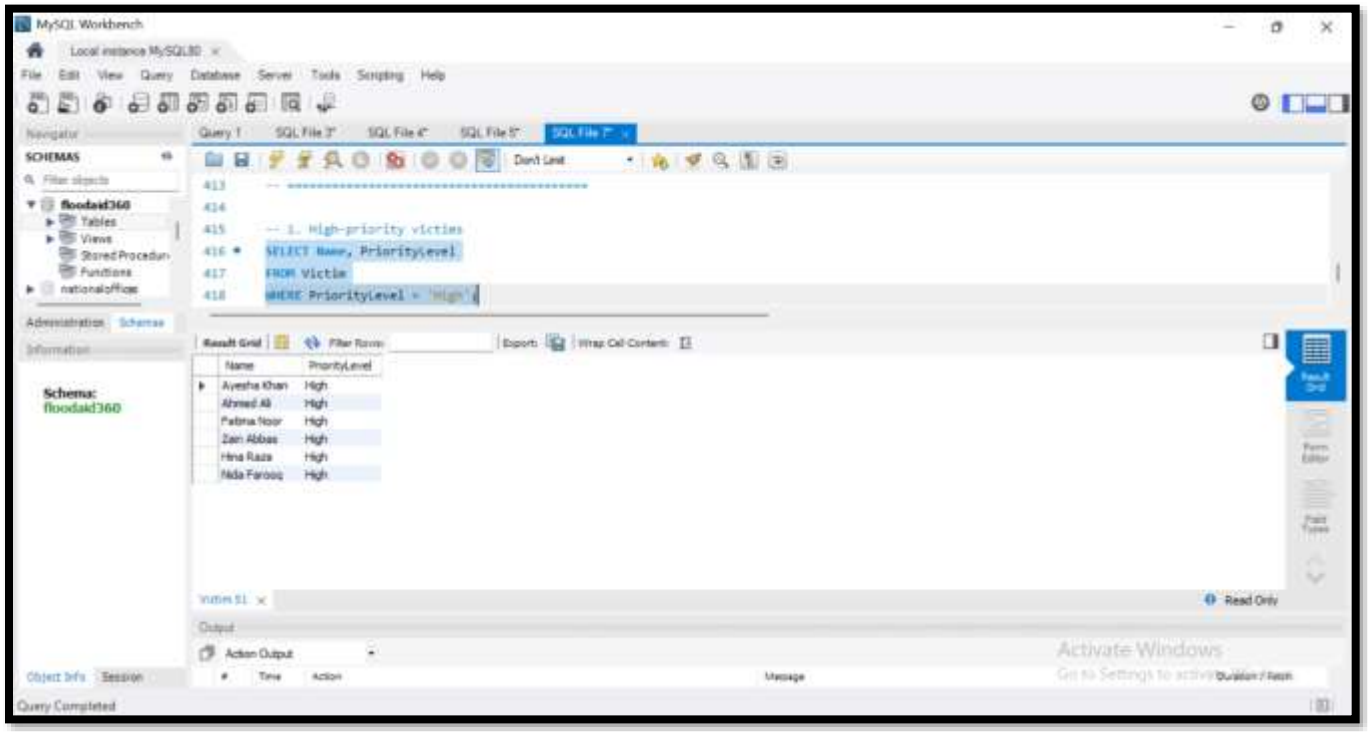

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
-- CREATE (Add donor)
INSERT INTO Donor (Name, Contact, DonationType)
VALUES ('Global Fund', '0300-1111222', 'Medical');
-- READ (View all donors)
SELECT * FROM Donor;
Result Grid
DonorID Name Contact DonationType
1 Edhi Foundation 0300-9998888 Food
2 Saylani Welfare 021-111-222 Medical
3 Al-Khidmat 051-111-333 Shelter
4 Red Crescent 051-222-444 Relief Goods
5 UNICEF 021-333-555 Child Care
6 WHO 021-444-666 Medical
7 Private Donor A 0300-1234567 Cash
8 Private Donor B 0301-7654321 Food
9 NGO Care 042-555-777 Sanitation
10 Local Community 0302-9998888 Clothes
Output
Action Output
Activate Windows
Query Completed

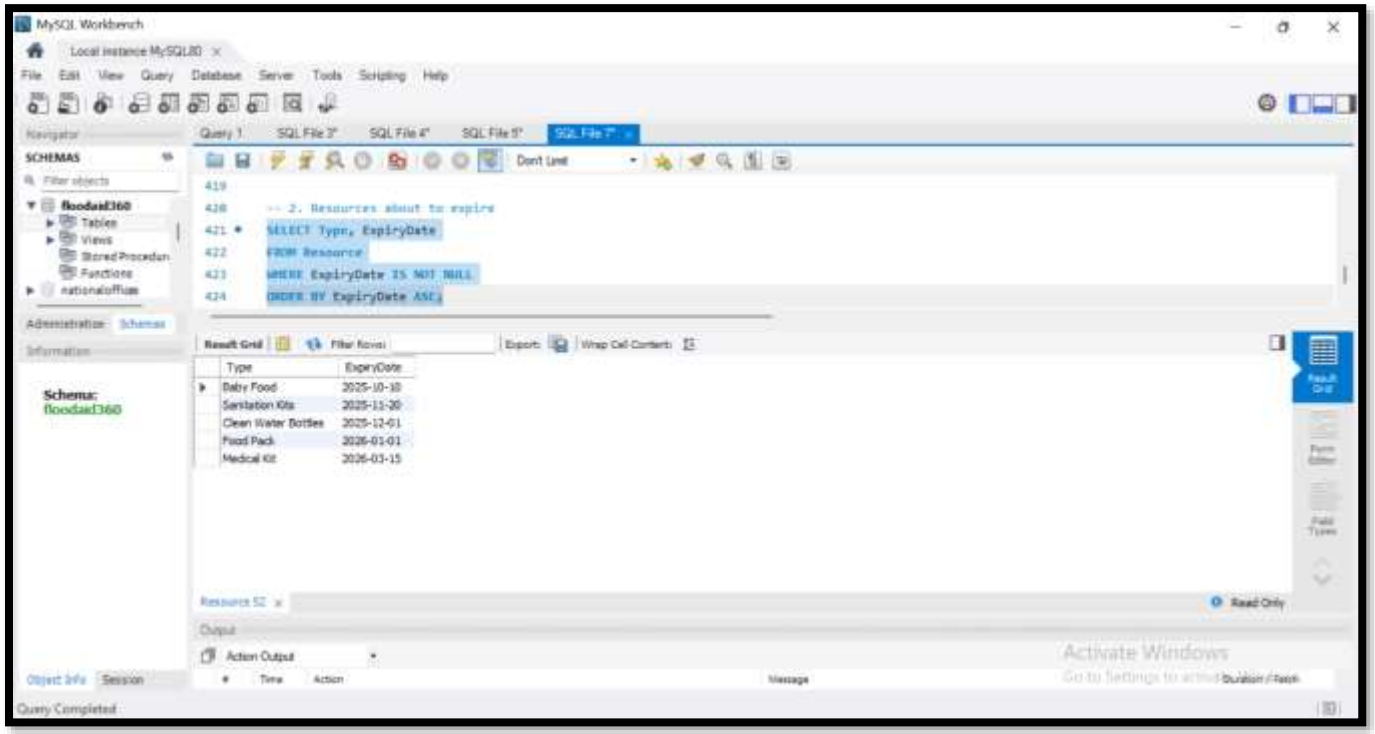

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
Query 1
SQL File 3*
SQL File 4*
SQL File 5*
SQL File 7*
-- CREATE (Record donation)
INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
VALUES (1, 1, 500, CURDATE());
SELECT * FROM Donation;
Result Grid
DonationID DonorID ResourceID Amount Date
1 1 1 200 2026-01-02
2 2 3 150 2026-01-02
3 3 6 50 2026-01-02
4 4 2 300 2026-01-02
5 5 5 100 2026-01-02
6 6 3 180 2026-01-02
7 7 1 250 2026-01-02
8 8 4 120 2026-01-02
9 9 8 160 2026-01-02
10 10 7 90 2026-01-02
11 1 1 300 2026-01-02
Output
Action Output
Activate Windows
Query Completed

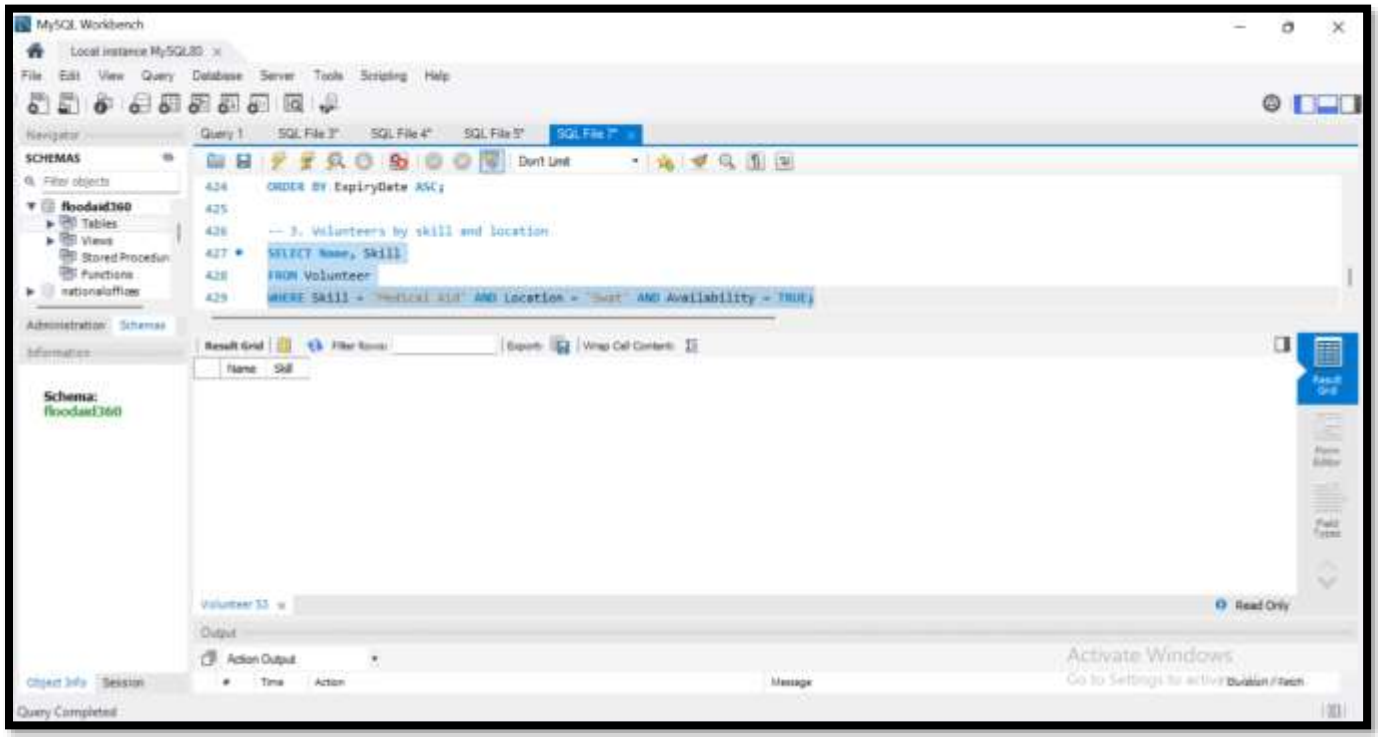

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
396 -- READ (View donations with donor & resource details)
397 SELECT Donor.Name AS Donor, Resource.Type AS Resource, Donation.Amount, Donation.Date
398 FROM Donation
399 JOIN Donor ON Donation.DonorID = Donor.DonorID
400 JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
401
Result Grid
Donor Resource Amount Date
Edhi Foundation Food Pack 200 2026-01-02
Edhi Foundation Food Pack 300 2026-01-02
Saylani Welfare Medical Kit 150 2026-01-02
Al-Khidmat Tents 50 2026-01-02
Red Crescent Clean Water Bottles 300 2026-01-02
UNICEF Baby Food 100 2026-01-02
WHO Medical Kit 180 2026-01-02
Private Donor A Food Pack 250 2026-01-02
Private Donor B Blankets 120 2026-01-02
NGO Care Sanitation Kits 160 2026-01-02
Local Community Clothes 90 2026-01-02
Result 48
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

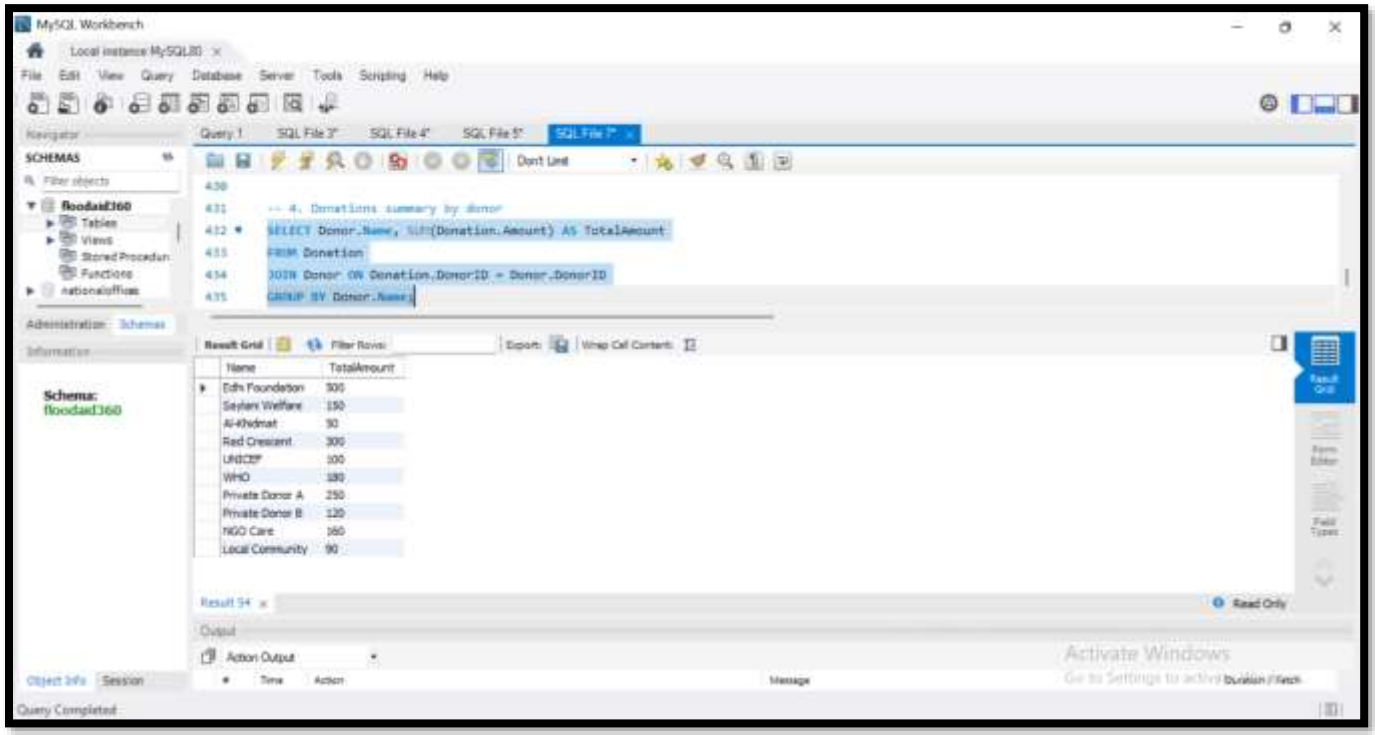

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
393
394 SELECT * FROM Donation;
395
396 -- READ (View donations with donor & resource details)
397 SELECT Donor.Name AS Donor, Resource.Type AS Resource, Donation.Amount, Donation.Date
398 FROM Donation
Result Grid
DonationID DonorID ResourceID Amount Date
1 1 1 500 2026-01-02
2 2 3 150 2026-01-02
3 3 6 50 2026-01-02
4 4 2 300 2026-01-02
5 5 5 100 2026-01-02
6 6 3 180 2026-01-02
7 7 1 250 2026-01-02
8 8 4 120 2026-01-02
9 9 8 160 2026-01-02
10 10 7 90 2026-01-02
11 1 1 300 2026-01-02
Donation 49
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

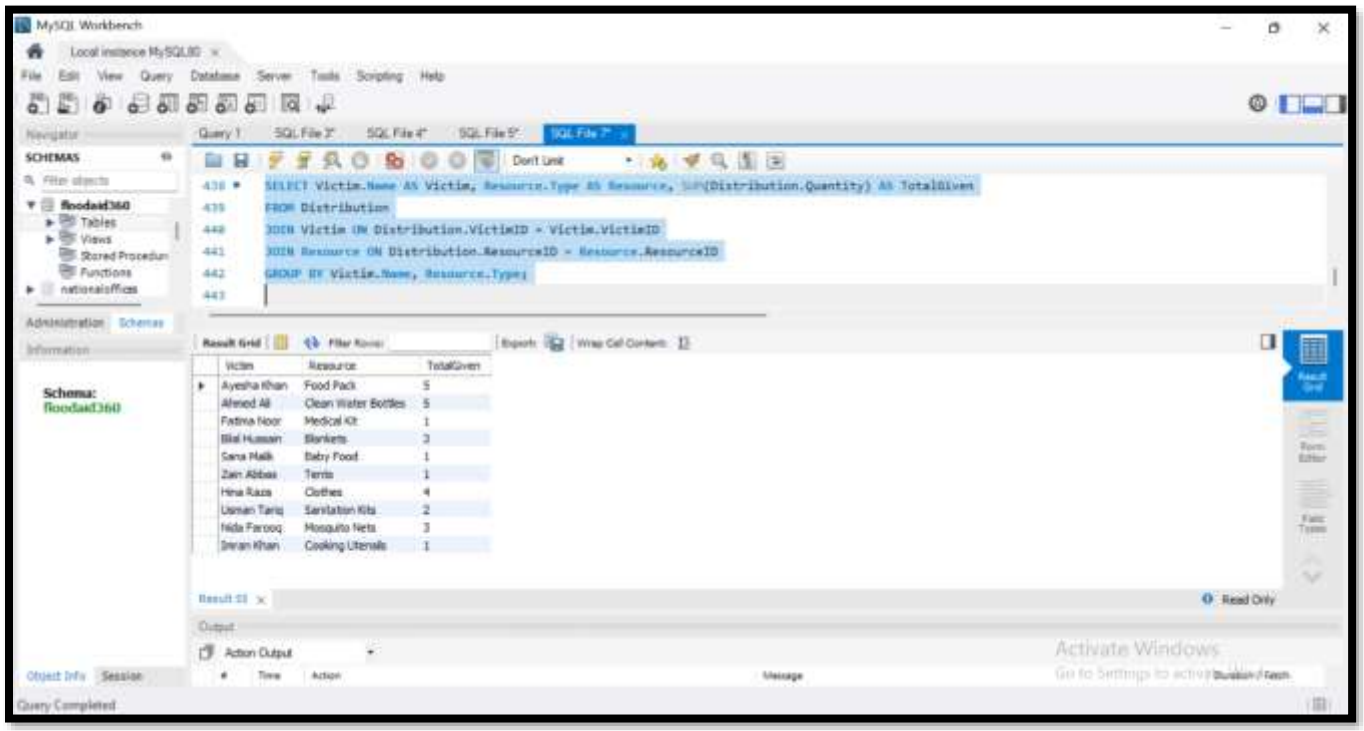

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Administration Schemas
Information
Schema:
floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
Don't Limit
389 -- ----------
390 -- CREATE (Record donation)
391 INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
392 VALUES (1, 1, 500, CURDATE());
393
394 SELECT * FROM Donation;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
DonationID DonorID ResourceID Amount Date
1 1 1 500 2026-01-02
2 2 3 150 2026-01-02
3 3 6 50 2026-01-02
4 4 2 300 2026-01-02
5 5 5 100 2026-01-02
6 6 3 180 2026-01-02
7 7 1 250 2026-01-02
8 8 4 120 2026-01-02
9 9 8 160 2026-01-02
10 10 7 90 2026-01-02
Donation 51
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

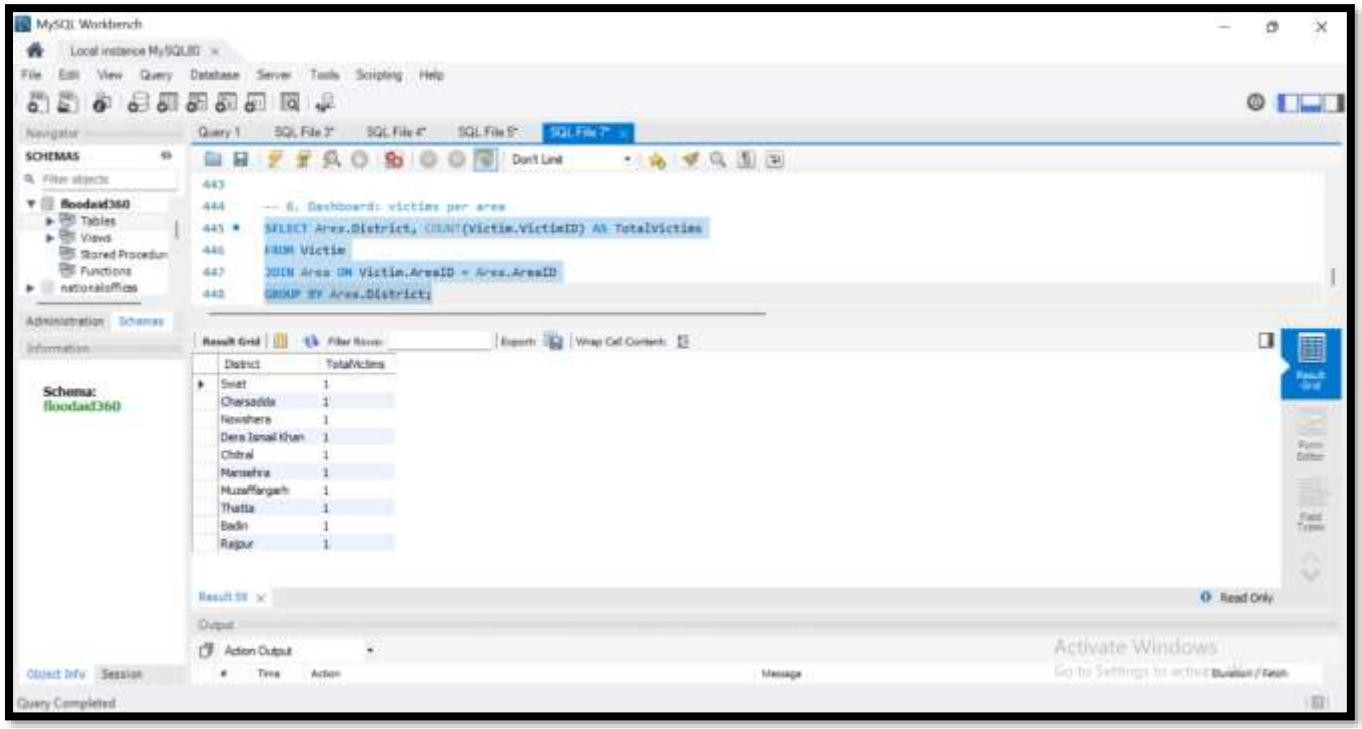

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffice
Administration Schemas
Information
Schema:
floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
Don't Limit
413 -- ----------
414
415 -- 1. High-priority victims
416 SELECT Name, PriorityLevel
417 FROM Victim
418 WHERE PriorityLevel = 'High';
Result Grid Filter Rows: Export: Wrap Cell Content:
Name PriorityLevel
Ayesha Khan High
Ahmed Ali High
Fatima Noor High
Zain Abbas High
Hina Raza High
Nida Farooq High
Victim 51
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed

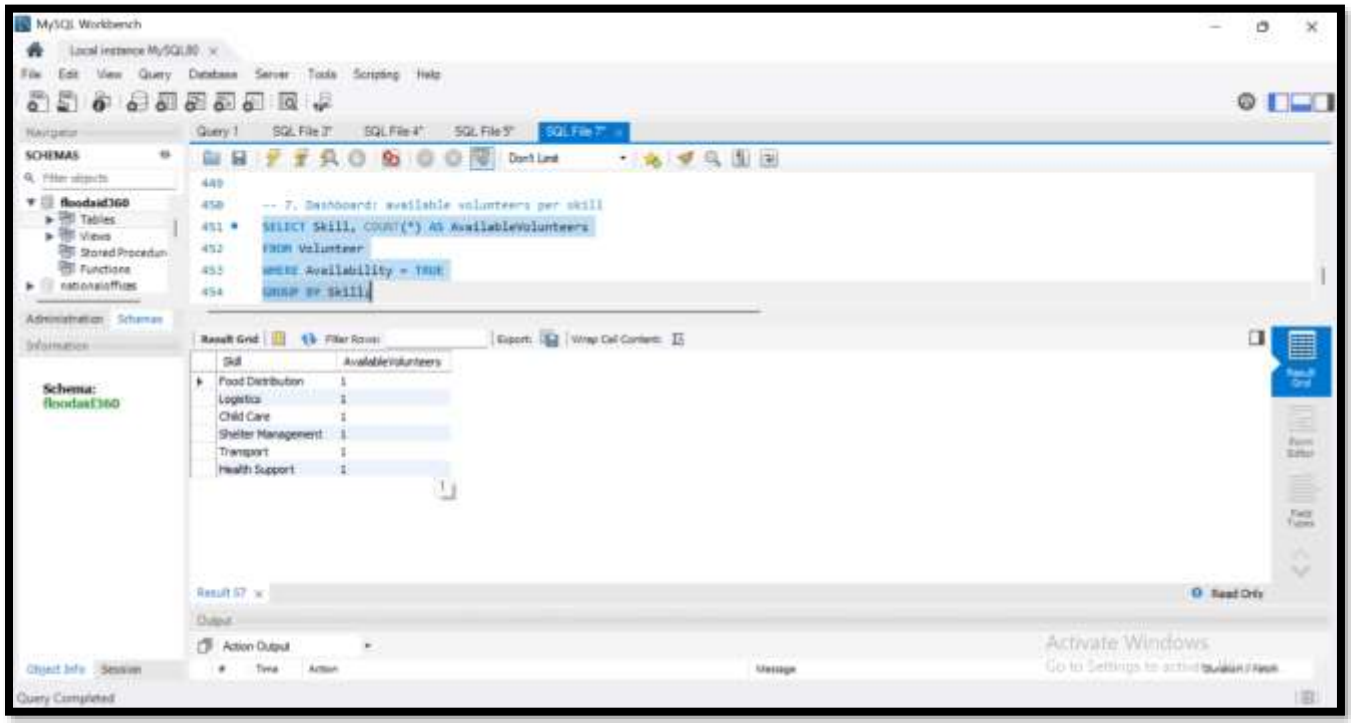

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
419
420 -- 2. Resources about to expire
421 SELECT Type, ExpiryDate
422 FROM Resource
423 WHERE ExpiryDate IS NOT NULL
424 ORDER BY ExpiryDate ASC;
Result Grid
Type ExpiryDate
Baby Food 2025-10-10
Sanitation Kits 2025-11-20
Clean Water Bottles 2025-12-01
Food Pack 2026-01-01
Medical Kit 2026-03-15
Read Only
Output
Action Output
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Schema:
floodaid360
424 ORDER BY ExpiryDate ASC;
425
426 -- 3. Volunteers by skill and location
427 SELECT Name, Skill
428 FROM Volunteer
429 WHERE Skill = 'Medical Aid' AND Location = 'Surat' AND Availability = TRUE;
Result Grid
Name Skill
Read Only
Output
Action Output
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
-- 4. Donations summary by donor
SELECT Donor.Name, SUM(Donation.Amount) AS TotalAmount
FROM Donation
JOIN Donor ON Donation.DonorID = Donor.DonorID
GROUP BY Donor.Name;
Result Grid
Name TotalAmount
Edhi Foundation 500
Seylani Welfare 150
Al-Khidmat 90
Red Crescent 300
UNICEF 100
WHO 180
Private Donor A 250
Private Donor B 120
NGO Care 160
Local Community 90
Result 54
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
FROM Distribution
JOIN Victim ON Distribution.VictimID = Victim.VictimID
JOIN Resource ON Distribution.ResourceID = Resource.ResourceID
GROUP BY Victim.Name, Resource.Type;
Result Grid
Victim Resource TotalGiven
Ayesha Khan Food Pack 5
Ahmed Ali Clean Water Bottles 5
Fatima Noor Medical Kit 1
Bilal Hussain Blankets 3
Sana Malik Baby Food 1
Zain Abbas Tents 1
Hina Raza Clothes 4
Usman Tariq Sanitation Kits 2
Nida Farooq Mosquito Nets 3
Imran Khan Cooking Utensils 1
Result 53
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Activate Windows
Query Completed


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
443
444 -- 6. Dashboard: victims per area
445 SELECT Area.District, COUNT(Victim.VictimID) AS TotalVictims
446 FROM Victim
447 JOIN Area ON Victim.AreaID = Area.AreaID
448 GROUP BY Area.District;
Result Grid Filter Rows: Export: Wrap Cell Content:
District TotalVictims
Swat 1
Charsadda 1
Nowshera 1
Dera Ismail Khan 1
Chitral 1
Mansehra 1
Muzaffargarh 1
Thatta 1
Badin 1
Rajpur 1
Result 58
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows
Go to Settings to activate Windows.


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*
SCHEMAS
floodaid360
Tables
Views
Stored Procedures
Functions
nationaloffices
Administration Schemas
Information
Schema:
floodaid360
449
450 -- 7. Dashboard: available volunteers per skill
451 SELECT Skill, COUNT(*) AS AvailableVolunteers
452 FROM Volunteer
453 WHERE Availability = TRUE
454 GROUP BY Skill;
Result Grid Filter Rows: Export: Wrap Cell Content:
Skill AvailableVolunteers
Food Distribution 1
Logistics 1
Child Care 1
Shelter Management 1
Transport 1
Health Support 1
Result 57
Read Only
Output
Action Output
Time Action Message Duration / Fetch
Query Completed
Activate Windows
Go to Settings to activate Windows.

Source Code

```
CREATE DATABASE FloodAid360;

USE FloodAid360;

CREATE TABLE Area (

  AreaID INT PRIMARY KEY AUTO_INCREMENT,

  District VARCHAR(100),

  Village VARCHAR(100),

  SeverityLevel VARCHAR(20),

  GPSCoordinates VARCHAR(50)

);

CREATE TABLE Victim (

  VictimID INT PRIMARY KEY AUTO_INCREMENT,

  Name VARCHAR(100),

  Age INT,

  FamilySize INT,

  MedicalNeeds TEXT,

  ShelterStatus VARCHAR(50),

  PriorityLevel VARCHAR(20),

  AreaID INT,

  FOREIGN KEY (AreaID) REFERENCES Area(AreaID)

);

CREATE TABLE Resource (

  ResourceID INT PRIMARY KEY AUTO_INCREMENT,

  Type VARCHAR(100),
```

```
  Quantity INT,
  ExpiryDate DATE,
  Source VARCHAR(100)
);
CREATE TABLE Distribution (
  DistributionID INT PRIMARY KEY AUTO_INCREMENT,
  VictimID INT,
  ResourceID INT,
  Date DATE,
  Quantity INT,
  FOREIGN KEY (VictimID) REFERENCES Victim(VictimID),
  FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID)
);
CREATE TABLE Volunteer (
  VolunteerID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100),
  Skill VARCHAR(100),
  Location VARCHAR(100),
  Availability BOOLEAN
);
CREATE TABLE Donor (
  DonorID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100),
  Contact VARCHAR(100),
```

```
  DonationType VARCHAR(50)
);
CREATE TABLE Donation (
  DonationID INT PRIMARY KEY AUTO_INCREMENT,
  DonorID INT,
  ResourceID INT,
  Amount INT,
  Date DATE,
  FOREIGN KEY (DonorID) REFERENCES Donor(DonorID),
  FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID)
);
DELIMITER //
CREATE TRIGGER UpdateStockAfterDistribution
AFTER INSERT ON Distribution
FOR EACH ROW
BEGIN
    UPDATE Resource
    SET Quantity = Quantity - NEW.Quantity
    WHERE ResourceID = NEW.ResourceID;
END;
//
DELIMITER ;
CREATE VIEW HighPriorityRescueBoard AS
SELECT
```

```
    V.Name AS Victim_Name,
    A.District,
    A.SeverityLevel AS Area_Severity,
    V.MedicalNeeds,
    V.PriorityLevel AS Victim_Priority
FROM Victim V
JOIN Area A ON V.AreaID = A.AreaID
WHERE V.PriorityLevel = 'High' OR A.SeverityLevel = 'High';
SHOW TABLES;
INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES
('Swat', 'Kalam', 'High', '35.4902,72.5796'),
('Charsadda', 'Tangi', 'Medium', '34.1490,71.7420'),
('Nowshera', 'Pabbi', 'High', '34.0113,71.7960'),
('Dera Ismail Khan', 'Kulachi', 'Low', '31.8315,70.4590'),
('Chitral', 'Booni', 'Medium', '36.3210,72.8780'),
('Mansehra', 'Balakot', 'High', '34.5471,73.3510'),
('Muzaffargarh', 'Kot Addu', 'High', '30.4697,70.9670'),
('Thatta', 'Makli', 'Medium', '24.7470,67.9230'),
('Badin', 'Talhar', 'High', '24.8845,68.8140'),
('Rajpur', 'Jampur', 'Low', '29.6424,70.5950');
INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID) VALUES
('Ayesha Khan', 35, 5, 'Diabetic', 'Camp', 'High', 1),
('Ahmed Ali', 60, 4, 'Blood Pressure', 'Camp', 'High', 2),
('Fatima Noor', 28, 3, 'Pregnant', 'Shelter Home', 'High', 3),
```

('Bilal Hussain', 45, 6, 'Asthma', 'Camp', 'Medium', 4),

('Sana Malik', 19, 2, 'None', 'Relative Home', 'Low', 5),

('Zain Abbas', 7, 5, 'Child Nutrition', 'Camp', 'High', 6),

('Hina Raza', 50, 4, 'Heart Patient', 'Camp', 'High', 7),

('Usman Tariq', 33, 3, 'Injury', 'Shelter Home', 'Medium', 8),

('Nida Farooq', 41, 6, 'Diabetic', 'Camp', 'High', 9),

('Imran Khan', 27, 2, 'None', 'Relative Home', 'Low', 10);

INSERT INTO Resource (Type, Quantity, ExpiryDate, Source) VALUES

('Food Pack', 500, '2026-01-01', 'NGO'),

('Clean Water Bottles', 1000, '2025-12-01', 'Government'),

('Medical Kit', 200, '2026-03-15', 'NGO'),

('Blankets', 300, NULL, 'Donation'),

('Baby Food', 150, '2025-10-10', 'UNICEF'),

('Tents', 100, NULL, 'Government'),

('Clothes', 400, NULL, 'Public'),

('Sanitation Kits', 250, '2025-11-20', 'WHO'),

('Mosquito Nets', 350, NULL, 'NGO'),

('Cooking Utensils', 180, NULL, 'Donation');

INSERT INTO Volunteer (Name, Skill, Location, Availability) VALUES

('Ali Ahmed', 'Medical Aid', 'Swat', TRUE),

('Sara Khan', 'Food Distribution', 'Charsadda', TRUE),

('Usman Riaz', 'Rescue', 'Nowshera', FALSE),

('Hassan Ali', 'Logistics', 'DI Khan', TRUE),

('Areeba Noor', 'Child Care', 'Chitral', TRUE),

('Bilal Shah', 'Medical Aid', 'Mansehra', FALSE),

('Zoya Malik', 'Shelter Management', 'Muzaffargarh', TRUE),

('Fahad Iqbal', 'Transport', 'Thatta', TRUE),

('Noor Fatima', 'Health Support', 'Badin', TRUE),

('Kamran Akbar', 'Supply Handling', 'Rajpur', FALSE);

INSERT INTO Donor (Name, Contact, DonationType) VALUES

('Edhi Foundation', '042-111-111', 'Food'),

('Saylani Welfare', '021-111-222', 'Medical'),

('Al-Khidmat', '051-111-333', 'Shelter'),

('Red Crescent', '051-222-444', 'Relief Goods'),

('UNICEF', '021-333-555', 'Child Care'),

('WHO', '021-444-666', 'Medical'),

('Private Donor A', '0300-1234567', 'Cash'),

('Private Donor B', '0301-7654321', 'Food'),

('NGO Care', '042-555-777', 'Sanitation'),

('Local Community', '0302-9998888', 'Clothes');

INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity) VALUES

(1, 1, CURDATE(), 2),

(2, 2, CURDATE(), 5),

(3, 3, CURDATE(), 1),

(4, 4, CURDATE(), 3),

(5, 5, CURDATE(), 1),

(6, 6, CURDATE(), 1),

(7, 7, CURDATE(), 4),

```
(8, 8, CURDATE(), 2),

(9, 9, CURDATE(), 3),

(10, 10, CURDATE(), 1);

INSERT INTO Donation (DonorID, ResourceID, Amount, Date) VALUES

(1, 1, 200, CURDATE()),

(2, 3, 150, CURDATE()),

(3, 6, 50, CURDATE()),

(4, 2, 300, CURDATE()),

(5, 5, 100, CURDATE()),

(6, 3, 180, CURDATE()),

(7, 1, 250, CURDATE()),

(8, 4, 120, CURDATE()),

(9, 8, 160, CURDATE()),

(10, 7, 90, CURDATE());

SELECT * FROM HighPriorityRescueBoard;

SELECT

   D.Name AS Donor_Name,

   SUM(Don.Amount) AS Total_Items_Donated,

   ROUND((SUM(Don.Amount) / (SELECT SUM(Amount) FROM Donation) * 100), 2) AS Share_Percentage

FROM Donor D

JOIN Donation Don ON D.DonorID = Don.DonorID

GROUP BY D.Name

ORDER BY Share_Percentage DESC;

SELECT * FROM Area;
```

```
SELECT * FROM Victim;

SELECT * FROM Resource;

SELECT * FROM Volunteer;

SELECT * FROM Donor;

SELECT * FROM Distribution;

SELECT * FROM Donation;

SELECT ResourceID, Type, Quantity, ExpiryDate, Source

FROM Resource;

SELECT Type, ExpiryDate

FROM Resource

WHERE ExpiryDate IS NOT NULL;

SELECT

   Victim.Name AS Victim_Name,

   Resource.Type AS Resource_Type,

   Distribution.Quantity,

   Distribution.Date

FROM Distribution

JOIN Victim ON Distribution.VictimID = Victim.VictimID

JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;

SELECT Name, Skill, Location

FROM Volunteer

WHERE Availability = TRUE;

SELECT Name

FROM Volunteer
```

```
WHERE Skill = 'Medical Aid'
AND Location = 'Swat'
AND Availability = TRUE;
SELECT
   Donor.Name AS Donor_Name,
   Resource.Type AS Resource_Type,
   Donation.Amount,
   Donation.Date
FROM Donation
JOIN Donor ON Donation.DonorID = Donor.DonorID
JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
SELECT Name, PriorityLevel
FROM Victim
WHERE PriorityLevel = 'High';
SELECT Victim.Name, Area.District
FROM Victim
JOIN Area ON Victim.AreaID = Area.AreaID
WHERE Area.District = 'Swat';
SELECT Name, MedicalNeeds
FROM Victim
WHERE MedicalNeeds LIKE '%Diabetic%';
SELECT Name, MedicalNeeds, ShelterStatus
FROM Victim
WHERE PriorityLevel = 'High';
```

```
SELECT Type, Quantity

FROM Resource

WHERE Quantity < 200;

SELECT Name, Skill

FROM Volunteer

WHERE Availability = TRUE;




-- ------------------------------

-- AREA CRUD

-- ------------------------------

-- CREATE (Insert new area)

INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)

VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');


-- READ (View all areas)

SELECT * FROM Area;


-- UPDATE (Change severity level of an area)

UPDATE Area

SET SeverityLevel = 'Low'

WHERE AreaID = 1;


-- DELETE (Remove an area)
```

```
DELETE FROM Area

WHERE AreaID = 11;


-- ----------------------------

-- VICTIM CRUD

-- ----------------------------

-- CREATE (Add new victim)

INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)

VALUES ('Rabia Shaikh', 40, 6, 'Pregnant', 'Camp', 'High', 1);


-- READ (View all victims)

SELECT * FROM Victim;


-- READ with JOIN to show victim's area

SELECT Victim.Name, Victim.PriorityLevel, Area.District, Area.Village

FROM Victim

JOIN Area ON Victim.AreaID = Area.AreaID;


-- UPDATE (Change victim shelter)

UPDATE Victim

SET ShelterStatus = 'Hospital'

WHERE VictimID = 1;


-- DELETE (Remove victim)
```

```
DELETE FROM Victim

WHERE VictimID = 11;


-- ------------------------------

-- RESOURCE CRUD

-- ------------------------------

-- CREATE (Add new resource)

INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)

VALUES ('Sanitation Kits', 100, '2026-05-01', 'NGO');


-- READ (View all resources)

SELECT * FROM Resource;


-- UPDATE (Update resource quantity)

UPDATE Resource

SET Quantity = Quantity + 50

WHERE ResourceID = 1;


-- DELETE (Remove resource)

DELETE FROM Resource

WHERE ResourceID = 11;


-- ------------------------------

-- DISTRIBUTION CRUD
```

```
-- ----------------------------

-- CREATE (Distribute resource to a victim)

INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity)

VALUES (1, 1, CURDATE(), 2);


-- READ (View distributions with victim & resource)

SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date

FROM Distribution

JOIN Victim ON Distribution.VictimID = Victim.VictimID

JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;


-- UPDATE (Update distribution quantity)

UPDATE Distribution

SET Quantity = 5

WHERE DistributionID = 1;


-- DELETE (Remove a distribution record)

DELETE FROM Distribution

WHERE DistributionID = 11;


-- ----------------------------

-- VOLUNTEER CRUD

-- ----------------------------

-- CREATE (Add volunteer)
```

```
INSERT INTO Volunteer (Name, Skill, Location, Availability)

VALUES ('Adeel Khan', 'Medical Aid', 'Swat', TRUE);


-- READ (View available volunteers)

SELECT Name, Skill, Location

FROM Volunteer

WHERE Availability = TRUE;


-- UPDATE (Update volunteer availability)

UPDATE Volunteer

SET Availability = FALSE

WHERE VolunteerID = 1;


-- DELETE (Remove volunteer)

DELETE FROM Volunteer

WHERE VolunteerID = 11;


-- ------------------------------

-- DONOR CRUD

-- ------------------------------

-- CREATE (Add donor)

INSERT INTO Donor (Name, Contact, DonationType)

VALUES ('Global Fund', '0300-1112222', 'Medical');
```

```
-- READ (View all donors)

SELECT * FROM Donor;


-- UPDATE (Update donor contact)

UPDATE Donor

SET Contact = '0300-9998888'

WHERE DonorID = 1;


-- DELETE (Remove donor)

DELETE FROM Donor

WHERE DonorID = 11;


-- ------------------------------

-- DONATION CRUD

-- ------------------------------

-- CREATE (Record donation)

INSERT INTO Donation (DonorID, ResourceID, Amount, Date)

VALUES (1, 1, 300, CURDATE());


-- READ (View donations with donor & resource details)

SELECT Donor.Name AS Donor, Resource.Type AS Resource, Donation.Amount, Donation.Date

FROM Donation

JOIN Donor ON Donation.DonorID = Donor.DonorID

JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
```

```
-- UPDATE (Update donation amount)

UPDATE Donation

SET Amount = 500

WHERE DonationID = 1;


-- DELETE (Remove donation)

DELETE FROM Donation

WHERE DonationID = 11;


-- ========================================

-- BUSINESS RULE QUERIES

-- ========================================


-- 1. High-priority victims

SELECT Name, PriorityLevel

FROM Victim

WHERE PriorityLevel = 'High';


-- 2. Resources about to expire

SELECT Type, ExpiryDate

FROM Resource

WHERE ExpiryDate IS NOT NULL

ORDER BY ExpiryDate ASC;
```

```
-- 3. Volunteers by skill and location

SELECT Name, Skill

FROM Volunteer

WHERE Skill = 'Medical Aid' AND Location = 'Swat' AND Availability = TRUE;


-- 4. Donations summary by donor

SELECT Donor.Name, SUM(Donation.Amount) AS TotalAmount

FROM Donation

JOIN Donor ON Donation.DonorID = Donor.DonorID

GROUP BY Donor.Name;


-- 5. Resources distributed per victim

SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven

FROM Distribution

JOIN Victim ON Distribution.VictimID = Victim.VictimID

JOIN Resource ON Distribution.ResourceID = Resource.ResourceID

GROUP BY Victim.Name, Resource.Type;


-- 6. Dashboard: victims per area

SELECT Area.District, COUNT(Victim.VictimID) AS TotalVictims

FROM Victim

JOIN Area ON Victim.AreaID = Area.AreaID

GROUP BY Area.District;
```

```
-- 7. Dashboard: available volunteers per skill

SELECT Skill, COUNT(*) AS AvailableVolunteers

FROM Volunteer

WHERE Availability = TRUE

GROUP BY Skill;
```

📚 Lessons Learned

Working on the **Flood Aid 360** database system provided us with profound academic and professional insights into the intersection of Software Engineering and humanitarian crisis management. Unlike standard commercial systems, this project required us to prioritize **data accuracy and low-latency retrieval**, as timely information in a flood scenario can literally save lives.

Throughout the development lifecycle, we maintained a culture of open communication. Regular synchronization through MS Teams and university-based peer reviews allowed us to refine our **Entity Relationship Diagram (ERD)** and identify potential bottlenecks in resource distribution logic. This project served as a practical laboratory for mastering database tools for schema design, normalization (up to 3NF), and the implementation of advanced SQL objects like **Automated Triggers and Views**.

One of the most significant lessons we learned was that technical efficiency must be balanced with **human-centric logic**. For example, designing the `PriorityLevel` attribute taught us how to translate complex humanitarian needs into quantifiable data. By fostering a collaborative environment built on mutual respect and shared responsibility, we minimized design conflicts and ensured that our technical solution remained aligned with real-world disaster relief requirements.

"In disaster management, collaboration is the bridge between chaotic data and organized relief; it begins with a shared vision and succeeds through a unified, data-driven effort."

🎯 Conclusion

The **Flood Aid 360** system offers a robust, scalable, and transparent platform that centralizes the complex logistics of flood relief operations. By integrating victim registration, donor management, and volunteer coordination into a single relational framework, the system bridges the gap between those in need and those providing aid.

Key features such as **automated stock tracking via triggers**, **priority-based rescue dashboards**, and **geo-coordinated area monitoring** ensure that relief efforts are both efficient and accountable. The parent/child relationship in education apps is here replaced by the **Donor-Recipient relationship**, where the admin panel serves as a command center for monitoring real-time distribution analytics and resource expiry dates.

Ultimately, this project demonstrates how database technology can be leveraged responsibly to manage large-scale emergencies, promote transparency in NGO operations, and maintain a secure, high-integrity environment for sensitive victim data. **Flood Aid 360** stands as a proof-of-concept with strong potential for real-world implementation, providing a blueprint for future digital transformations in the humanitarian sector