

FLOOD AID 360



GROUP MEMBERS

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Bachelors of Science in Software Engineering



Faculty of Computing

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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:

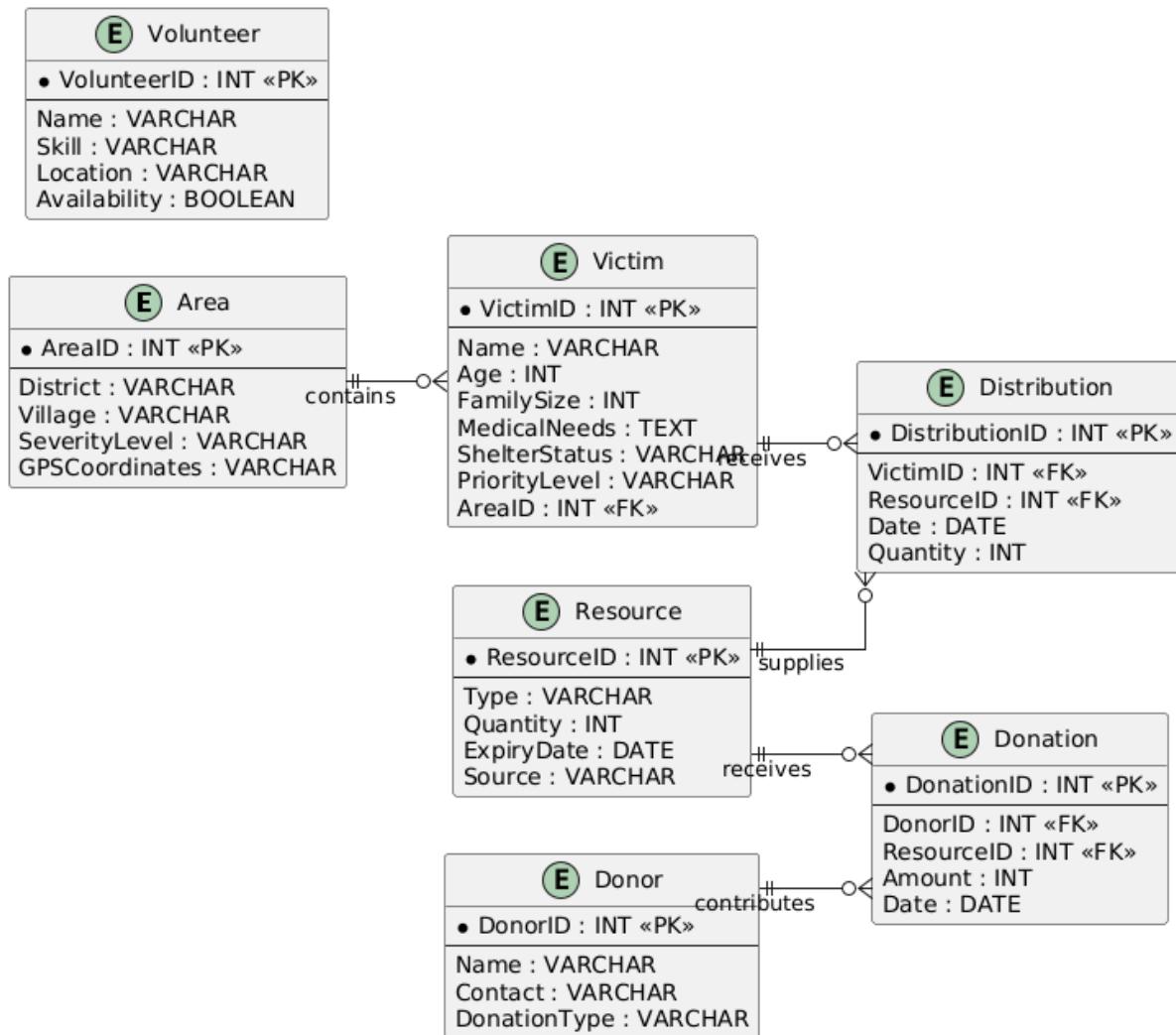
- Prevent misuse or duplication of resources
- Ensure fair and authorized distribution

- **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:

The screenshot shows the MySQL Workbench interface with the 'Query' tab selected. The code pane displays the SQL script for creating the 'Victim' table:

```
CREATE DATABASE FloodAid360;
USE FloodAid360;
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)
);
```

The 'Navigator' pane on the left shows the 'Schemas' section with 'floodaid360' expanded, revealing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Information' section below it also lists 'floodaid360'. The bottom status bar indicates 'Query Completed.'

The screenshot shows the MySQL Workbench interface with the 'Query' tab selected. The code pane displays the continuation of the SQL script:

```
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,
```

The 'Navigator' pane on the left shows the 'Schemas' section with 'floodaid360' expanded, revealing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Information' section below it also lists 'floodaid360'. The bottom status bar indicates 'Query Completed.'

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5*

SCHEMAS Filter objects

Bloodaid360

- Tables
- Views
- Stored Procedures
- Functions

Information

Schema: Bloodaid360

```
46 • CREATE TABLE Volunteer (
47     VolunteerID INT PRIMARY KEY AUTO_INCREMENT,
48     Name VARCHAR(100),
49     Skill VARCHAR(100),
50     Location VARCHAR(100),
51     Availability BOOLEAN
52 );
53
54 • CREATE TABLE Donor (
55     DonorID INT PRIMARY KEY AUTO_INCREMENT,
56     Name VARCHAR(100),
57     Contact VARCHAR(100),
58     DonationType VARCHAR(50)
59 );
60
61 • CREATE TABLE Donation (
62     DonationID INT PRIMARY KEY AUTO_INCREMENT,
63     DonorID INT,
64     ResourceID INT,
65     Amount INT,
```

Object Info Session Output

Query Completed:

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5*

SCHEMAS Filter objects

Bloodaid360

- Tables
- Views
- Stored Procedures
- Functions

Information

Schema: Bloodaid360

```
61     Date DATE,
62     FOREIGN KEY (DonorID) REFERENCES Donor(DonorID),
63     FOREIGN KEY (ResourceID) REFERENCES Resource(ResourceID)
64 );
65
66 DELIMITER //
67 • CREATE TRIGGER UpdateStockAfterDistribution
68 AFTER INSERT ON Distribution
69 FOR EACH ROW
70 BEGIN
71     UPDATE Resource
72     SET Quantity = Quantity - NEW.Quantity
73     WHERE ResourceID = NEW.ResourceID;
74 END;
75 //
76 DELIMITER ;
77
78 • CREATE VIEW HighPriorityRescueboard AS
79 SELECT
80     V.Name AS Victim_Name,
81     A.District,
```

Object Info Session Output

Query Completed:

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* Don't Limit

SCHEMAS

Schema: floodaid360

```

82     A.SeverityLevel AS Area_Severity,
83     V.MedicalNeeds,
84     V.PriorityLevel AS Victim_Priority
85   FROM Victim V
86   JOIN Area A ON V.AreaID = A.AreaID
87 WHERE V.PriorityLevel = 'High' OR A.SeverityLevel = 'High'
88
89 * SHOW TABLES;
90 * INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES
91 ('Sant', 'Kalem', 'High', '35.4981,72.5786'),
92 ('Chorwaddi', 'Tangli', 'Medium', '36.1496,71.7428'),
93 ('Nawshera', 'Pashi', 'High', '34.8113,71.7766'),
94 ('Guru Ismail Khan', 'Kulachhi', 'Low', '31.8213,70.4958'),
95 ('Chitral', 'Basti', 'Medium', '34.3218,73.8758'),
96 ('Mansehra', 'Halakot', 'High', '34.8471,73.2218'),
97 ('Muzaffarganj', 'Jot Adhu', 'High', '30.4837,70.9679'),
98 ('Thatta', 'Makli', 'Medium', '24.7478,67.8238'),
99 ('Sardin', 'Talbar', 'High', '24.8885,68.8148'),
100 ('Kapur', 'Kapur', 'Low', '29.5424,78.5958')
101
102 * INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID) VALUES

```

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Object Info Session Output

Query Completed.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* Don't Limit

SCHEMAS

Schema: floodaid360

```

102 * INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID) VALUES
103 ('Ayesha Khan', 25, 3, 'Diabetic', 'Camp', 'High', 1),
104 ('Ahmed Ali', 40, 4, 'Blood Pressure', 'Camp', 'High', 2),
105 ('Fatima Noor', 28, 5, 'Pregnant', 'Shelter Home', 'High', 3),
106 ('Bilal Hussain', 45, 6, 'Asthma', 'Camp', 'Medium', 4),
107 ('Sana Malik', 18, 2, 'None', 'Relative Home', 'Low', 5),
108 ('Ismail Ahmar', 7, 5, 'Child Nutrition', 'Camp', 'High', 6),
109 ('Hina Raza', 50, 4, 'Heart Patient', 'Camp', 'High', 7),
110 ('Usman Tariq', 35, 3, 'Injury', 'Shelter Home', 'Medium', 8),
111 ('Nida Farooq', 45, 6, 'Diabetic', 'Camp', 'High', 9),
112 ('Fareem Khan', 22, 2, 'None', 'Relative Home', 'Low', 10)
113
114 * INSERT INTO Resource (Type, Quantity, ExpiryDate, Source) VALUES
115 ('Food Pack', 500, '2025-01-01', 'WHO'),
116 ('Clean Water Bottles', 1000, '2025-12-01', 'Government'),
117 ('Medical Kit', 200, '2026-05-15', 'WHO'),
118 ('Blankets', 300, NULL, 'UNOmission'),
119 ('Baby food', 150, '2025-10-10', 'UNICEF'),
120 ('Tents', 100, NULL, 'Government'),
121 ('Clothes', 400, NULL, 'Public'),
122 ('Sanitation Kits', 250, '2025-11-30', 'WHO'),

```

Activate Windows

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Object Info Session Output

Query Completed.

```
MySQL Workbench
Local instance MySQL80 X
File Edit View Query Database Server Tools Scripting Help
Navigator Schemas
SCHEMAS
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  ▶ Tables
  ▶ Views
  ▶ Stored Procedures
  ▶ Functions
+ nationalservice
Administrator: Schemas
Information
Schema: floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5*
122 ('Sanitation Kits', 250, '2023-11-20', 'WHO'),
123 ('Mosquito Nets', 250, NULL, 'WHO'),
124 ('Cooking Utensils', 100, NULL, 'Distribution'),
125
126 * INSERT INTO Volunteer (Name, Skill, Location, Availability) VALUES
127 ('Ali Ahmed', 'Medical Aid', 'Sana', TRUE),
128 ('Sara Khan', 'Food Distribution', 'Chariadda', TRUE),
129 ('Umair Haq', 'Wetware', 'Nowshera', FALSE),
130 ('Hassan Ali', 'Logistics', 'SL Khan', TRUE),
131 ('Armeena Munir', 'Child Care', 'Chitral', TRUE),
132 ('Hilal Shah', 'Medical Aid', 'Mangalore', FALSE),
133 ('Zoya Malik', 'Shelter Management', 'Muzaffargarh', TRUE),
134 ('Fahad Iqbal', 'Transport', 'Thatta', TRUE),
135 ('Amar Fatima', 'Health Support', 'Sadiq', TRUE),
136 ('Kareem Akbar', 'Supply Handling', 'Rejpur', FALSE),
137
138 * INSERT INTO Donor (Name, Contact, DonationType) VALUES
139 ('Al-Huda Foundation', '042-111-1111', 'Food'),
140 ('Seyyid Welfare', '021-111-2222', 'Medical'),
141 ('Al-Kindi', '051-111-3333', 'Shelter'),
142 ('Red Crescent', '051-222-4444', 'Relief Goods'),
143
144
145
146
147
148
149
150 * INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity)
151 (1, 1, CURDATE(), 2),
152 (2, 2, CURDATE(), 5),
153 (3, 3, CURDATE(), 1),
154 (4, 4, CURDATE(), 3),
155 (5, 5, CURDATE(), 3),
156 (6, 6, CURDATE(), 2),
157 (7, 7, CURDATE(), 4),
158 (8, 8, CURDATE(), 2),
159 (9, 9, CURDATE(), 2),
160 (10, 10, CURDATE(), 1)
161
162 * INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
163 VALUES
```

```
MySQL Workbench
Local instance MySQL80 X
File Edit View Query Database Server Tools Scripting Help
Navigator Schemas
SCHEMAS
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+ floodaid360
  ▶ Tables
  ▶ Views
  ▶ Stored Procedures
  ▶ Functions
+ nationalservice
Administrator: Schemas
Information
Schema: floodaid360
Query 1 SQL File 3* SQL File 4* SQL File 5*
142 ('Red Crescent', '051-222-4444', 'Relief Goods'),
143 ('UNICEF', '021-333-5555', 'Child Care'),
144 ('WHO', '021-444-6664', 'Medical'),
145 ('Private Donor A', '0300-12345677', 'Cash'),
146 ('Private Donor B', '0301-7894321', 'Food'),
147 ('WHO Care', '042-333-7777', 'Sanitation'),
148 ('Local Community', '0342-99999999', 'Clothes'),
149
150 * INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity)
151 (1, 1, CURDATE(), 2),
152 (2, 2, CURDATE(), 5),
153 (3, 3, CURDATE(), 1),
154 (4, 4, CURDATE(), 3),
155 (5, 5, CURDATE(), 3),
156 (6, 6, CURDATE(), 2),
157 (7, 7, CURDATE(), 4),
158 (8, 8, CURDATE(), 2),
159 (9, 9, CURDATE(), 2),
160 (10, 10, CURDATE(), 1)
161
162 * INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
163 VALUES
```

```
MySQL Workbench - Local instance MySQL80 - X
File Edit View Query Database Server Tools Scripting Help
Navigator Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
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  ▾ Views
  ▾ Stored Procedures
  ▾ Functions
  ▾ Nationaloffices
Administrator: Schemas
Information
Schema: floodaid360
162 * INSERT INTO Donation (DonorID, ResourceID, Amount, Date) VALUES
163 (1, 1, 300, CURDATE());
164 (2, 1, 150, CURDATE());
165 (3, 6, 50, CURDATE());
166 (4, 1, 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
Activate Windows
Go to Settings to activate Windows
Object Info Session Output
Query Completed
```

```
MySQL Workbench - Local instance MySQL80 - X
File Edit View Query Database Server Tools Scripting Help
Navigator Query 1 SQL File 3* SQL File 4* SQL File 5*
SCHEMAS
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  ▾ Tables
  ▾ Views
  ▾ Stored Procedures
  ▾ Functions
  ▾ Nationaloffices
Administrator: Schemas
Information
Schema: floodaid360
181 JOIN Donation Don ON D.DonorID = Don.DonorID
182 GROUP BY D.Name
183 ORDER BY Share_Percentage DESC;
184
185 * SELECT * FROM Areas;
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
Activate Windows
Go to Settings to activate Windows
Object Info Session Output
Query Completed
```

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3" SQL File 4" SQL File 5"

SCHEMAS

0. Filter objects

▼ Floodaid360

- Tables
- Views
- Stored Procedures
- Functions

► metabolics

Administration Schemas

Information

Schema: Floodaid360

```
301 •    SELECT Type, ExpiryDate
302   FROM Resource
303
304   WHERE ExpiryDate IS NOT NULL;
305
306 •    SELECT
307     Victim.Name AS Victim_Name,
308     Resource.Type AS Resource_Type,
309     Distribution.Quantity,
310     Distribution.Date
311   FROM Distribution
312   JOIN Victim ON Distribution.VictimID = Victim.VictimID
313   JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
314
315 •    SELECT Name, Skill, Location
316   FROM Volunteer
317   WHERE Availability = TRUE;
318
319 •    SELECT Name
320   FROM Volunteer
321   WHERE Skill = 'Medical Aid'
```

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Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* SQL Editor

SCHEMAS

0. Filter objects

▼ floodaid360

- Tables
- Views
- Stored Procedures
- Functions

► nationalaffairs

Administration Schemas Information

Schema: floodaid360

```
220 FROM Volunteer
221 WHERE Skill = 'Medical Aid'
222 AND Location = 'Swat'
223 AND Availability = TRUE;
224
225 • SELECT
226     Donor.Name AS Donor_Name,
227     Resource.Type AS Resource_Type,
228     Donation.Amount,
229     Donation.Date
230     FROM Donation
231     JOIN Donor ON Donation.DonorID = Donor.DonorID
232     JOIN Resource ON Donation.ResourceID = Resource.ResourceID
233
234 • SELECT Name, PriorityLevel
235     FROM Victim
236     WHERE PriorityLevel = 'High';
237
238 • SELECT Victim.Name, Area.District
239     FROM Victim
240     JOIN Area ON Victim.AreaID = Area.AreaID
```

Activate Windows
Go to Settings to activate Windows

Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* Don't Limit

SCHEMAS

0. Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration: Schemas

Information:

Schema: floodaid360

```
341 WHERE Area.District = 'West';
342
343 * SELECT Name, MedicalNeeds
344   FROM Victim
345 WHERE MedicalNeeds LIKE '%Bimetic%';
346
347 * SELECT Name, MedicalNeeds, ShelterStatus
348   FROM Victim
349 WHERE PriorityLevel = 'High';
350
351 * SELECT Type, Quantity
352   FROM Resource
353 WHERE Quantity < 200;
354
355 * SELECT Name, Skill
356   FROM Volunteer
357 WHERE Availability = TRUE;
358
359 --- AREA CRUD
360
361 --- VICTIM CRUD
```

Object Info Session Output

Query Completed.

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6* Don't Limit

SCHEMAS

0. Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration: Schemas

Information:

Schema: floodaid360

```
368 --- AREA CRUD
369
370 --- CREATE (Insert new area)
371 * INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates)
372 VALUES ('New District', 'New Village', 'Medium', '0.0000,0.0000');
373
374 --- READ (View all areas)
375 * SELECT * FROM Area;
376
377 --- UPDATE (Change severity level of an area)
378 * UPDATE Area
379 SET SeverityLevel = 'Low'
380 WHERE AreaID = 1;
381
382 --- DELETE (Remove an area)
383 * DELETE FROM Area
384 WHERE AreaID = 1;
385
386 --- VICTIM CRUD
387 ---
```

Object Info Session Output

Query Completed.

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

Local instance MySQL80 - x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5*

SCHEMAS Filter objects

Schema: floodaid360

```
279 -- VICTIM CRUD
280 --
281 -- CREATE (Add new victim)
282 * INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)
283     VALUES ('Rania Sheikh', 40, 4, '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, Areas.District, Areas.Village
290     FROM Victim
291     JOIN Areas ON Victim.AreaID = Areas.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;
```

Activate Windows
Go to Settings to activate Windows

Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 - x

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5*

SCHEMAS Filter objects

Schema: floodaid360

```
299 * DELETE FROM Victim
300     WHERE VictimID = 1;
301 
302 -- RESOURCE CRUD
303 --
304 -- CREATE (Add new resource)
305 -- INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
306     VALUES ('Sanitation Kits', 100, '2028-05-05', 'NGO');
307 
308 -- READ (View all resources)
309 * SELECT * FROM Resource;
310 
311 -- UPDATE (Update resource quantity)
312 * UPDATE Resource
313     SET Quantity = Quantity + 50
314     WHERE ResourceID = 1;
315 
316 -- DELETE (Remove resource)
317 * DELETE FROM Resource
318     WHERE ResourceID = 1;
```

Activate Windows
Go to Settings to activate Windows

Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- Filter objects
- floodaid360
 - Tables
 - Views
 - Stored Procedures
 - Functions
- nativeoffices

Administration: Schemas

Information

Schema: floodaid360

```
319 WHERE ResourceID = 1;
320
321 --- DISTRIBUTION CRUD
322
323 --- CREATE (Distribute resource to a victim)
324 * INSERT INTO Distribution (VictimID, ResourceID, Date, Quantity)
325   VALUES (1, 1, CURDATE(), 2);
326
327 --- READ (View distributions with victim & resource)
328 * SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
329   FROM Distribution
330   JOIN Victim ON Distribution.VictimID = Victim.VictimID
331   JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
332
333 --- UPDATE (Update distribution quantity)
334 * UPDATE Distribution
335   SET Quantity = 5
336   WHERE DistributionID = 1;
```

Activate Windows

Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- Filter objects
- floodaid360
 - Tables
 - Views
 - Stored Procedures
 - Functions
- nativeoffices

Administration: Schemas

Information

Schema: floodaid360

```
329 WHERE DistributionID = 1;
330
331 --- DELETE (Remove a distribution record)
332 * DELETE FROM Distribution
333   WHERE DistributionID = 1;
334
335 --- VOLUNTEER CRUD
336
337 --- CREATE (Add volunteer)
338 * INSERT INTO Volunteer (Name, Skill, Location, Availability)
339   VALUES ('Adel Khan', 'Medical Aid', 'Sana', TRUE);
340
341 --- READ (View available volunteers)
342 * SELECT Name, Skill, Location
343   FROM Volunteer
344   WHERE Availability = TRUE;
345
346 --- UPDATE (Update volunteer availability)
```

Activate Windows

Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3" SQL File 4" SQL File 5"

SCHEMAS

Filter objects

▼ **bloodaid360**

- Tables
- Views
- Stored Procedures
- Partitions
- nationaloffices

Administration Schemas

Information

Schema: **bloodaid360**

```
359 -- UPDATE (Update volunteer availability)
360 • UPDATE Volunteer
361 SET Availability = FALSE
362 WHERE VolunteerID = 111
363
364 -- DELETE (Remove volunteer)
365 • DELETE FROM Volunteer
366 WHERE VolunteerID = 111
367
368 -- -----
369 -- DONOR CRUD
370 -----
371 -- CREATE (Add donor)
372 • INSERT INTO Donor (Name, Contact, DonationType)
373 VALUES ('Bishal Fund', '0200-1111111', 'Medical')
374
375 -- READ (View all donors)
376 • SELECT * FROM Donor
377
378 -- UPDATE (Update donor contact)
379 • UPDATE Donor
```

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Object Info Session Output

Query Completed

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* Donor Unit

SCHEMAS

Filter objects

tnoodad360

- Tables
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Schema: tnoodad360

```
379 • UPDATE Donor
380   SET Contact = '0300-8998888'
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, 300, CURDATE());
393
394 • SELECT * FROM Donations;
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;
```

Activate Windows
Go to Settings to activate Windows

Object Info Session Output

Query Completed.

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* SQL File 4* SQL File 5* Dont Unit

SCHEMAS

0. Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

Administration: Schemas

Information

Schema: floodaid360

```
399 JOIN Donor ON Donation.DonorID = Donor.DonorID
400 JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
401
402 -- UPDATE (Update donation amount)
403 * UPDATE Donation
404 SET Amount = 500
405 WHERE DonationID = 1;
406
407 -- DELETE (Remove donation)
408 * DELETE FROM Donation
409 WHERE DonationID = 11;
410
411 -----
412 -- BUSINESS RULE QUERIES
413 -----
414
415 -- 1. High-priority victims
416 * SELECT Name, PriorityLevel
417 FROM Victim
418 WHERE PriorityLevel = 'High';
419
```

Object Info Session Output

Query Completed

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* SQL File 4* SQL File 5* Dont Unit

SCHEMAS

0. Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

Administration: Schemas

Information

Schema: floodaid360

```
420 -- 2. Resources about to expire
421 * SELECT Type, ExpiryDate
422 FROM Resource
423 WHERE ExpiryDate IS NOT NULL
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 = 'West' AND Availability = TRUE;
430
431 -- 4. Donations summary by donor
432 * SELECT Donor.Name, SUM(Donation.Amount) AS TotalAmount
433 FROM Donation
434 JOIN Donor ON Donation.DonorID = Donor.DonorID
435 GROUP BY Donor.Name;
436
437 -- 5. Resources distributed per victim
438 * SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
439 FROM Distribution
440 JOIN Victim ON Distribution.VictimID = Victim.VictimID
```

Object Info Session Output

Query Completed

Activate Windows
Go to Settings to activate Windows

MySQL Workbench

Local instance MySQL8 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2 SQL File 4 SQL File 5 SQL File 7

SCHEMAS Schemas: floodaid360

B. Filter objects

Y Tables

Views

Stored Procedures

Functions

nationaloffices

Administration: Schemas

Information

Schema: floodaid360

```
434 JOIN Donor ON Donation.DonorID = Donor.DonorID
435 GROUP BY Donor.Name;
436
437 -- 5. Resources distributed per victim
438 * SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
439 FROM Distribution
440 JOIN Victim ON Distribution.VictimID = Victim.VictimID
441 JOIN Resource ON Distribution.ResourceID = Resource.ResourceID
442 GROUP BY Victim.Name, Resource.Type;
443
444 -- 6. Dashboards: 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;
449
450 -- 7. Dashboards: available volunteers per skill
451 * SELECT Skill, COUNT(*) AS AvailableVolunteers
452 FROM Volunteer
453 WHERE Availability = TRUE
454 GROUP BY Skill;
```

Activate Windows
www.microsoft.com/activatenow

Object Info Session Output

Query Completed:

Output:

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Schemas:** Schemas dropdown, currently set to "bloodaid360".
- Tables:** Shows tables like "Area", "District", "HighPriorityRescueBoard", etc.
- Query Editor:** SQL File 7, containing the query: `SELECT * FROM HighPriorityRescueBoard;`. The results grid shows the following data:

Victim_Name	District	Area_Severity	MedicalNeeds	Victim_Priority
Ayesha Khan	Svet	High	Diabetic	High
Ahmed Ali	Charadda	Medium	Blood Pressure	High
Fatima Noor	Nowhere	High	Pregnant	High
Zain Abbas	Manshera	High	Child Nutrition	High
Hina Raza	Musaffargate	High	Heart Patient	High
Nida Farooq	Batin	High	Diabetic	High

- Output Panel:** Shows the execution history:
 - 21 15:14:13 SHOW TABLES
 - 22 15:14:49 SELECT * FROM HighPriorityRescueBoardWith messages indicating "Rows returned" for both queries.
- Status Bar:** "Activate Windows" message.

The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Schemas:** Schemas dropdown, currently set to "bloodaid360".
- Tables:** Shows tables like "Area", "District", "HighPriorityRescueBoard", "Donor", "Donation", etc.
- Query Editor:** SQL File 7, containing a complex query:

```
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
181   FROM Donor D
182   JOIN Donation Don ON D.DonorID = Don.DonorID
183
184   GROUP BY D.Name
185
186   ORDER BY Share_Percentage DESC;
```
- Output Panel:** Shows the results of the query:

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
Seylan Welfare	150	9.38
Private Donor B	120	7.50
UNICEF	100	6.25
Local Community	90	5.63
Allahinet	80	5.13
- Status Bar:** "Activate Windows" message.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Table: area

Columns:

AreaID	District	Village	SeverityLevel	GPSCoordinates
1	Swet	Kalan	High	35.4902,71.5790
2	Charsadda	Tangi	Medium	34.1660,71.7420
3	Nomhera	Pabbi	High	34.0113,71.7960
4	Dera Ismail Khan	Kulach	Low	31.8315,70.4990
5	Orthal	Boori	Medium	36.3210,72.8780
6	Manshera	Balakot	High	34.5471,73.3510
7	Musaffirgarh	Kot Addu	High	30.4697,70.9670
8	Thatta	Haili	Medium	24.7470,67.9230
9	Bedin	Tahar	High	24.8845,68.8140
10	Rajpur	Jampur	Low	29.6424,70.5950
11	Swet	Kalan	High	35.4902,71.5790
12	Charsadda	Tangi	Medium	34.1660,71.7420
13	Nomhera	Pabbi	High	34.0113,71.7960
14	Dera Ismail Khan	Kulach	Low	31.8315,70.4990
15	Orthal	Boori	Medium	36.3210,72.8780

Result Grid Filter Rows Edit ExportImport Wrap Cell Content

Area 5

Activate Windows

Go to Settings to activate Windows

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Table: area

Columns:

AreaID	District	Village	SeverityLevel	GPSCoordinates
7	Musaffirgarh	Kot Addu	High	30.4697,70.9670
8	Thatta	Haili	Medium	24.7470,67.9230
9	Bedin	Tahar	High	24.8845,68.8140
10	Rajpur	Jampur	Low	29.6424,70.5950
11	Swet	Kalan	High	35.4902,71.5790
12	Charsadda	Tangi	Medium	34.1660,71.7420
13	Nomhera	Pabbi	High	34.0113,71.7960
14	Dera Ismail Khan	Kulach	Low	31.8315,70.4990
15	Orthal	Boori	Medium	36.3210,72.8780
16	Manshera	Balakot	High	34.5471,73.3510
17	Musaffirgarh	Kot Addu	High	30.4697,70.9670
18	Thatta	Haili	Medium	24.7470,67.9230
19	Bedin	Tahar	High	24.8845,68.8140
20	Rajpur	Jampur	Low	29.6424,70.5950
2023	2023	2023	2023	2023

Result Grid Filter Rows Edit ExportImport Wrap Cell Content

Area 5

Activate Windows

Go to Settings to activate Windows

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7* Don't List

183 ORDER BY Share_Percentage DESC;

184

185 • SELECT * FROM Area;

186

187 • 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	Sid Hussain	45	6	Asthma	Camp	Medium	4
5	Sana Malik	19	2	None	Relative Home	Low	5
6	Zain Abbasi	7	5	Child Nutrition	Camp	High	6
7	Hina Razi	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

Victim 6 x

Output

Action Output

Time	Action	Message	Duration / Fetch
24 19:17:56	SELECT * FROM Area	20 rows(s) returned	0.000 sec / 0.000 sec
25 19:19:03	SELECT * FROM Victim	10 rows(s) returned	0.000 sec / 0.000 sec

Activate Window Go to Settings to activate

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6* SQL File 7* Don't List

185 • SELECT * FROM Area;

186

187 • SELECT * FROM Victim;

188

189 • 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	146	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

Resource 7 x

Output

Action Output

Time	Action	Message	Duration / Fetch
25 19:19:03	SELECT * FROM Victim	10 rows(s) returned	0.000 sec / 0.000 sec
26 19:19:43	SELECT * FROM Resource	10 rows(s) returned	0.000 sec / 0.000 sec

Activate Window Go to Settings to activate

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6*

SCHEMAS

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

AreaID	int(11)
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

VolunteerID	Name	Skill	Location	Availability
1	Ali Ahmed	Medical Aid	Swat	1
2	Sara Khan	Food Distribution	Charsadda	1
3	Lionan Riaz	Rescue	Noshera	0
4	Hassan Ali	Logistics	DG Khan	1
5	Areeba Noor	Child Care	Ortakai	1
6	Bilal Shah	Medical Aid	Manshera	0
7	Zoya Malik	Shelter Management	Muzaffargarh	1
8	Fahad Iqbal	Transport	Thatta	1
9	Noor Fatima	Health Support	Sadn	1
10	Kiran Albar	Supply Handling	Rajor	0

Volunteer 8

Output

Action Output

Time	Action	Message	Duration / Fetch
26 19:19:43	SELECT * FROM Resource	10 rows/1 returned	0.000 sec / 0.000 sec
27 19:20:00	SELECT * FROM Volunteer	10 rows/1 returned	0.000 sec / 0.000 sec

Activate Window Go to Settings to activate window

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6*

SCHEMAS

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

AreaID	int(11)
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

DonorID	Name	Contact	DonorType
1	IDN Foundation	042-111-111	Food
2	Saylani Welfare	031-111-222	Medical
3	Al-Ahsanat	051-111-333	Shelter
4	Red Crescent	051-222-444	Relief Goods
5	UNICEF	021-333-555	Child Care
6	WHD	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

Donor 9

Output

Action Output

Time	Action	Message	Duration / Fetch
27 19:20:00	SELECT * FROM Volunteer	10 rows/1 returned	0.000 sec / 0.000 sec
28 19:20:22	SELECT * FROM Donor	10 rows/1 returned	0.000 sec / 0.000 sec

Activate Window Go to Settings to activate window

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

SCHEMAS

Bloodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration Schemas

Information

Table: area

Columns:

AreaID	int(11)
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

DistributionID	ItemID	ResourceID	Date	Quantity
1	1	1	2026-01-03	2
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	11	11	2026-01-02	1
12	12	12	2026-01-02	1
13	13	13	2026-01-02	1
14	14	14	2026-01-02	1
15	15	15	2026-01-02	1
16	16	16	2026-01-02	1
17	17	17	2026-01-02	1
18	18	18	2026-01-02	1
19	19	19	2026-01-02	1
20	20	20	2026-01-02	1
21	21	21	2026-01-02	1
22	22	22	2026-01-02	1
23	23	23	2026-01-02	1
24	24	24	2026-01-02	1
25	25	25	2026-01-02	1
26	26	26	2026-01-02	1
27	27	27	2026-01-02	1
28	28	28	2026-01-02	1
29	29	29	2026-01-02	1
30	30	30	2026-01-02	1
31	31	31	2026-01-02	1
32	32	32	2026-01-02	1
33	33	33	2026-01-02	1
34	34	34	2026-01-02	1
35	35	35	2026-01-02	1
36	36	36	2026-01-02	1
37	37	37	2026-01-02	1
38	38	38	2026-01-02	1
39	39	39	2026-01-02	1
40	40	40	2026-01-02	1
41	41	41	2026-01-02	1
42	42	42	2026-01-02	1
43	43	43	2026-01-02	1
44	44	44	2026-01-02	1
45	45	45	2026-01-02	1
46	46	46	2026-01-02	1
47	47	47	2026-01-02	1
48	48	48	2026-01-02	1
49	49	49	2026-01-02	1
50	50	50	2026-01-02	1
51	51	51	2026-01-02	1
52	52	52	2026-01-02	1
53	53	53	2026-01-02	1
54	54	54	2026-01-02	1
55	55	55	2026-01-02	1
56	56	56	2026-01-02	1
57	57	57	2026-01-02	1
58	58	58	2026-01-02	1
59	59	59	2026-01-02	1
60	60	60	2026-01-02	1
61	61	61	2026-01-02	1
62	62	62	2026-01-02	1
63	63	63	2026-01-02	1
64	64	64	2026-01-02	1
65	65	65	2026-01-02	1
66	66	66	2026-01-02	1
67	67	67	2026-01-02	1
68	68	68	2026-01-02	1
69	69	69	2026-01-02	1
70	70	70	2026-01-02	1
71	71	71	2026-01-02	1
72	72	72	2026-01-02	1
73	73	73	2026-01-02	1
74	74	74	2026-01-02	1
75	75	75	2026-01-02	1
76	76	76	2026-01-02	1
77	77	77	2026-01-02	1
78	78	78	2026-01-02	1
79	79	79	2026-01-02	1
80	80	80	2026-01-02	1
81	81	81	2026-01-02	1
82	82	82	2026-01-02	1
83	83	83	2026-01-02	1
84	84	84	2026-01-02	1
85	85	85	2026-01-02	1
86	86	86	2026-01-02	1
87	87	87	2026-01-02	1
88	88	88	2026-01-02	1
89	89	89	2026-01-02	1
90	90	90	2026-01-02	1
91	91	91	2026-01-02	1
92	92	92	2026-01-02	1
93	93	93	2026-01-02	1
94	94	94	2026-01-02	1
95	95	95	2026-01-02	1
96	96	96	2026-01-02	1
97	97	97	2026-01-02	1
98	98	98	2026-01-02	1
99	99	99	2026-01-02	1
100	100	100	2026-01-02	1
101	101	101	2026-01-02	1
102	102	102	2026-01-02	1
103	103	103	2026-01-02	1
104	104	104	2026-01-02	1
105	105	105	2026-01-02	1
106	106	106	2026-01-02	1
107	107	107	2026-01-02	1
108	108	108	2026-01-02	1
109	109	109	2026-01-02	1
110	110	110	2026-01-02	1
111	111	111	2026-01-02	1
112	112	112	2026-01-02	1
113	113	113	2026-01-02	1
114	114	114	2026-01-02	1
115	115	115	2026-01-02	1
116	116	116	2026-01-02	1
117	117	117	2026-01-02	1
118	118	118	2026-01-02	1
119	119	119	2026-01-02	1
120	120	120	2026-01-02	1
121	121	121	2026-01-02	1
122	122	122	2026-01-02	1
123	123	123	2026-01-02	1
124	124	124	2026-01-02	1
125	125	125	2026-01-02	1
126	126	126	2026-01-02	1
127	127	127	2026-01-02	1
128	128	128	2026-01-02	1
129	129	129	2026-01-02	1
130	130	130	2026-01-02	1
131	131	131	2026-01-02	1
132	132	132	2026-01-02	1
133	133	133	2026-01-02	1
134	134	134	2026-01-02	1
135	135	135	2026-01-02	1
136	136	136	2026-01-02	1
137	137	137	2026-01-02	1
138	138	138	2026-01-02	1
139	139	139	2026-01-02	1
140	140	140	2026-01-02	1
141	141	141	2026-01-02	1
142	142	142	2026-01-02	1
143	143	143	2026-01-02	1
144	144	144	2026-01-02	1
145	145	145	2026-01-02	1
146	146	146	2026-01-02	1
147	147	147	2026-01-02	1
148	148	148	2026-01-02	1
149	149	149	2026-01-02	1
150	150	150	2026-01-02	1
151	151	151	2026-01-02	1
152	152	152	2026-01-02	1
153	153	153	2026-01-02	1
154	154	154	2026-01-02	1
155	155	155	2026-01-02	1
156	156	156	2026-01-02	1
157	157	157	2026-01-02	1
158	158	158	2026-01-02	1
159	159	159	2026-01-02	1
160	160	160	2026-01-02	1
161	161	161	2026-01-02	1
162	162	162	2026-01-02	1
163	163	163	2026-01-02	1
164	164	164	2026-01-02	1
165	165	165	2026-01-02	1
166	166	166	2026-01-02	1
167	167	167	2026-01-02	1
168	168	168	2026-01-02	1
169	169	169	2026-01-02	1
170	170	170	2026-01-02	1
171	171	171	2026-01-02	1
172	172	172	2026-01-02	1
173	173	173	2026-01-02	1
174	174	174	2026-01-02	1
175	175	175	2026-01-02	1
176	176	176	2026-01-02	1
177	177	177	2026-01-02	1
178	178	178	2026-01-02	1
179	179	179	2026-01-02	1
180	180	180	2026-01-02	1
181	181	181	2026-01-02	1
182	182	182	2026-01-02	1
183	183	183	2026-01-02	1
184	184	184	2026-01-02	1
185	185	185	2026-01-02	1
186	186	186	2026-01-02	1
187	187	187	2026-01-02	1
188	188	188	2026-01-02	1
189	189	189	2026-01-02	1
190	190	190	2026-01-02	1
191	191	191	2026-01-02	1
192	192	192	2026-01-02	1
193	193	193	2026-01-02	1
194	194	194	2026-01-02	1
195	195	195	2026-01-02	1
196	196	196	2026-01-02	1
197	197	197	2026-01-02	1
198	198	198	2026-01-02	1
199	199	199	2026-01-02	1
200	200	200	2026-01-02	1
201	201	201	2026-01-02	1
202	202	202	2026-01-02	1
203	203	203	2026-01-02	1
204	204	204	2026-01-02	1
205	205	205	2026-01-02	1
206	206	206	2026-01-02	1
207	207	207	2026-01-02	1
208	208	208	2026-01-02	1
209	209	209	2026-01-02	1
210	210	210	2026-01-02	1
211	211	211	2026-01-02	1
212	212	212	2026-01-02	1
213	213	213	2026-01-02	1
214	214	214	2026-01-02	1
215	215	215	2026-01-02	1
216	216	216	2026-01-02	1
217	217	217	2026-01-02	1
218	218	218	2026-01-02	1
219	219	219	2026-01-02	1
220	220	220	2026-01-02	1
221	221	221	2026-01-02	1
222	222	222	2026-01-02	1
223	223	223	2026-01-02	1
224	224	224	2026-01-02	1
225	225	225	2026-01-02	1
226	226	226	2026-01-02	1
227	227	227	2026-01-02	1
228	228	228	2026-01-02	1
229	229	229	2026-01-02	1
230	230	230	2026-01-02	1
231	231	231	2026-01-02	1
232	232	232	2026-01-02	1
233	233	233	2026-0	

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedure
- Functions
- nationaloffices

Administration Schemas

Information

Table: area

Columns:

AreaID	int(11)
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

ResourceID	Type	Quantity	ExpiryDate	Source
1	Food Pack	456	2026-01-01	NGO
2	Clean Water Bottles	999	2025-12-01	Government
3	Medical Kit	399	2026-03-15	NGO
4	Blankets	257	2026-01-01	Donation
5	Baby Food	146	2025-10-30	UNICEF
6	Tents	98	2026-01-01	Government
7	Clothes	296	2026-01-01	Public
8	Sanitation Kits	246	2025-11-20	WHO
9	Mosquito nets	347	2026-01-01	NGO
10	Cooking Utensils	179	2026-01-01	Donation
11	2026-01-01	2026-01-01	2026-01-01	2026-01-01

Resources 12 x

Output

Action Output

Time	Action	Message
30 19:23:05	SELECT * FROM Donation	10 rows(s) returned
31 19:23:22	SELECT ResourceID, Type, Quantity, ExpiryDate, Source FROM Resource	10 rows(s) returned

Activate Window Duration / Fetch 0.000 sec / 0.000 sec
Go to Settings to activate 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedure
- Functions
- nationaloffices

Administration Schemas

Information

Table: area

Columns:

AreaID	int(11)
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

Type	ExpiryDate
Food Pack	2026-01-01
Clean Water Bottles	2025-12-01
Medical Kit	2026-03-15
Baby Food	2025-10-30
Sanitation Kits	2025-11-20

Resources 13 x

Output

Action Output

Time	Action	Message
31 19:23:22	SELECT ResourceID, Type, Quantity, ExpiryDate, Source FROM Resource	10 row(s) returned
32 19:23:58	SELECT Type, ExpiryDate FROM Resource WHERE ExpiryDate IS NOT NULL	5 row(s) returned

Activate Window Duration / Fetch 0.000 sec / 0.000 sec
Go to Settings to activate 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80

```

File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*
Schemas
Filter objects
feedad360
Tables
Views
Stored Procedure
Functions
nativeloftess

Administration Schemas
Information
Table: area
Columns:
AreaID INT(11)
District VARCHAR(50)
Village VARCHAR(50)
SeverityLevel VARCHAR(50)
GPSCoordinates VARCHAR(50)

Result Grid | Filter Rows | Export | Wrap Cell Content: T
Victim_Name Resource_Type Quantity Date
Aysha 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 Tent 1 2026-01-02
Hina Raza Clothes 4 2026-01-02
Umer Tanveer Sanitation Kits 2 2026-01-02
Nida Farooq Mosquito Nets 3 2026-01-02
Imran Khan Cooking Utensils 1 2026-01-02

```

Result 14 ×

Output

Action Output

#	Time	Action	Message
32	19:23:58	SELECT Type, ExpiryDate FROM Resource WHERE ExpiryDate IS NOT NULL.	5 rows returned
33	19:24:19	SELECT Victim_Name AS Victim_Name, Resource_Type AS Resource_Type, Date AS Date FROM Distribution WHERE Victim_ID = Victim.VictimID AND Resource.ResourceID = Resource.ResourceID;	10 rows returned

Activate Window Duration / Fetch
Go to Settings to activate Window 0.000 sec / 0.000 sec
0.016 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80

```

File Edit View Query Database Server Tools Scripting Help
Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*
Schemas
Filter objects
feedad360
Tables
Views
Stored Procedure
Functions
nativeloftess

Administration Schemas
Information
Table: area
Columns:
AreaID INT(11)
District VARCHAR(50)
Village VARCHAR(50)
SeverityLevel VARCHAR(50)
GPSCoordinates VARCHAR(50)

Result Grid | Filter Rows | Export | Wrap Cell Content: T
Name Skill Location
Ali Ahmed Medical Aid Swat
Sara Khan Food Distribution Charsadda
Hassan Ali Logistics D.I. Khan
Areeba Noor Child Care Chitral
Zain Malik Shelter Management Muzaffargarh
Fahad Iqbal Transport Thatta
Noor Fatima Health Support Badin

```

Result 15 ×

Output

Action Output

#	Time	Action	Message
33	19:24:19	SELECT Victim_Name AS Victim_Name, Resource_Type AS Resource_Type, Date AS Date FROM Distribution WHERE Victim_ID = Victim.VictimID AND Resource.ResourceID = Resource.ResourceID;	10 rows returned
34	19:24:40	SELECT Name, Skill, Location FROM Volunteer WHERE Availability = TRUE	7 rows returned

Activate Window Duration / Fetch
Go to Settings to activate Window 0.016 sec / 0.000 sec
0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL> x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

MySQL360 Tables Views StoredProcedures Functions nationaloffices

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

Don't Limit

```
229 • SELECT Name
230   FROM Volunteer
231   WHERE Skill = 'Medical Aid'
232   AND Location = 'Swat'
233   AND Availability = TRUE;
```

Result Grid Filter Rows Export Wrap Cell Content

Name

All Ahmed

Table: area

Columns:

AreaID	int
District	VARCHAR
Village	VARCHAR
SeverityLevel	VARCHAR
GPSCoordinates	VARCHAR

Volunteer 18 >

Action Output

- Time Action Message
- 34 19:24:40 SELECT Name, Skill, Location FROM Volunteer WHERE Availability = TRUE 7 rows returned
- 35 19:24:59 SELECT Name FROM Volunteer WHERE Skill = 'Medical Aid' AND Location = 'Swat' A... 1 rows returned

Activate Window Duration / Fetch Go to Settings to activate 0.000 sec / 0.000 sec 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL> x

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

MySQL360 Tables Views StoredProcedures Functions nationaloffices

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

Don't Limit

```
228 • Donation_Amount
229   Donation_Date
230   FROM Donation
231   JOIN Donor ON Donation.DonorID = Donor.DonorID
232   JOIN Resource ON Donation.ResourceID = Resource.ResourceID;
```

Result Grid Filter Rows Export Wrap Cell Content

Donor_Name	Resource_Type	Amount	Date
Edhi Foundation	Food Pack	200	2026-01-02
Sylkari 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 17 >

Action Output

- Time Action Message
- 35 19:24:59 SELECT Name FROM Volunteer WHERE Skill = 'Medical Aid' AND Location = 'Swat' A... 1 rows returned
- 36 19:25:21 SELECT Donor_Name AS Donor_Name, Resource_Type AS Resource_Type, ... 10 rows returned

Activate Window Duration / Fetch Go to Settings to activate 0.000 sec / 0.000 sec 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL: <--

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration Schemas

Information

Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Result Grid | Filter Rows Export Wrap Cell Content

Name	PriorityLevel
Ayesha Khan	High
Ahmed Ali	High
Fatima Noor	High
Zain Abbas	High
Hina Riaz	High
Nida Parsoo	High

Victim: 18

Output

Action Output

Time	Action	Message
36	19:25:21 SELECT Donor_Name AS Donor_Name, Resource_Type AS Resource_Type, D...	10 rows returned
37	19:25:55 SELECT Name, PriorityLevel FROM Victim WHERE PriorityLevel = 'High'	6 rows returned

Activate Window Duration / Fetch 0.000 sec / 0.000 sec Go to Settings to activate this window 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL: <--

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration Schemas

Information

Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Result Grid | Filter Rows Export Wrap Cell Content

Name	District
Ayesha Khan	Surat

Victim: 19

Output

Action Output

Time	Action	Message
37	19:25:55 SELECT Victim.Name, Area.District	6 rows returned
38	19:26:38 SELECT Victim.Name, Area.District FROM Victim JOIN Area ON Victim.AreaID = Area.AreaID WHERE Area.District = 'Surat'	1 rows returned

Activate Window Duration / Fetch 0.000 sec / 0.000 sec Go to Settings to activate this window 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80 -

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

fbloodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration: Schemas Information

Table: area

Columns:

AreaID	int
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid | Filter Rows Export Wrap Cell Contents

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 | Filter Rows Export Wrap Cell Contents

Name MedicalNeeds

Ayesha Khan	Diabetic
Huda Farooq	Diabetic

Victim 20 x Read Only

Output Action Output

Time Action Message

38 19:26:38 SELECT Victim.Name, Area.District FROM Victim JOIN Area ON Victim.AreaID = Area.AreaID WHERE MedicalNeeds LIKE '%Diabetic%' 2 rows(s) returned

39 19:26:34 SELECT Name, MedicalNeeds FROM Victim WHERE MedicalNeeds LIKE '%Diabetic%' 2 rows(s) returned

Activate Window Duration / Fetch: 0.000 sec / 0.000 sec Go to Settings to activate auto refresh 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80 -

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Filter objects

fbloodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration: Schemas Information

Table: area

Columns:

AreaID	int
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid | Filter Rows Export Wrap Cell Contents

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 | Filter Rows Export Wrap Cell Contents

Name MedicalNeeds ShelterStatus

Ayesha Khan	Diabetic	Camp
Ahmed Ali	Blood Pressure	Camp
Fatima Noor	Pregnant	Shelter Home
Zain Abbas	Child Nutrition	Camp
Hina Riaz	Heart Patient	Camp
Huda Farooq	Diabetic	Camp

Victim 21 x Read Only

Output Action Output

Time Action Message

39 19:26:54 SELECT Name, MedicalNeeds FROM Victim WHERE MedicalNeeds LIKE '%Diabetic%' 2 rows(s) returned

40 19:27:14 SELECT Name, MedicalNeeds, ShelterStatus FROM Victim WHERE PriorityLevel = 'High' 6 rows(s) returned

Activate Window Duration / Fetch: 0.000 sec / 0.000 sec Go to Settings to activate auto refresh 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOHEMAS

Flooded360

Tables Views Stored Procedure Functions

nationalefforts

Query 1 SQL File 2 SQL File 4 SQL File 5 SQL File 7

```

248 WHERE PriorityLevel = 'High';
249
250 • SELECT Type, Quantity
251   FROM Resource
252 WHERE Quantity < 200;
253

```

Result Grid Filter Rows Export Wrap Cell Contents

Type	Quantity
Medical Kit	199
Baby Food	149
Tents	99
Cooking Utensils	179

Administration Schemas

Information Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Object Info Session Query Completed

Resource 22 x

Action Output

Time	Action	Message
40	19:27:14 SELECT Name, MedicalNeeds, ShelterStatus FROM Victim WHERE PriorityLevel = High;	6 rows(s) returned
41	19:27:20 SELECT Type, Quantity FROM Resource WHERE Quantity < 200	4 rows(s) returned

Activate Windows Duration / Fetch Go to Settings to activate 0.000 sec / 0.000 sec 0.000 sec / 0.000 sec

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOHEMAS

Flooded360

Tables Views Stored Procedure Functions

nationalefforts

Query 1 SQL File 2 SQL File 4 SQL File 5 SQL File 7

```

253 WHERE Quantity < 200;
254
255 • SELECT Name, Skill
256   FROM Volunteer
257 WHERE Availability = TRUE;
258

```

Result Grid Filter Rows Export Wrap Cell Contents

Name	Skill
All 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

Administration Schemas

Information Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Object Info Session Query Completed

Volunteer 23 x

Action Output

Time	Action	Message
41	19:27:30 SELECT Type, Quantity FROM Resource WHERE Quantity < 200	4 rows(s) returned
42	19:27:43 SELECT Name, Skill FROM Volunteer WHERE Availability = TRUE	7 rows(s) returned

Activate Windows Duration / Fetch Go to Settings to activate 0.000 sec / 0.000 sec 0.000 sec / 0.000 sec

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Local instance MySQL80

Query 1 SQL File 2 SQL File 3 SQL File 4 SQL File 5 SQL File 6

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	35.4902,71.5796
2	Charsadda	Tangi	Medium	34.1490,71.7420
3	Noshera	Pabb	High	34.0113,71.7960
4	Dera Ismail Khan	Kulachi	Low	31.8315,70.4590
5	Orthal	Booni	Medium	36.3210,72.8780
6	Manshera	Balaot	High	34.5471,73.3510
7	Muzaffargarh	Kot Addu	High	30.4697,70.9670
8	Thatta	Mall	Medium	24.7470,67.9230
9	Bahawalpur	Tahar	High	24.8845,68.8140
10	Rajpur	Jampr	Low	29.6424,70.5990
11	Swat	Kalam	High	35.4902,71.5796

Table: area

Columns:

AreaID	INT(11)
District	VARCHAR
Village	VARCHAR
SeverityLevel	VARCHAR
GPSCoordinates	VARCHAR

Result Grid

AreaID	District	Village	SeverityLevel	GPSCoordinates
12	Charsadda	Tangi	Medium	34.1490,71.7420
13	Noshera	Pabb	High	34.0113,71.7960
14	Dera Ismail Khan	Kulachi	Low	31.8315,70.4590
15	Orthal	Booni	Medium	36.3210,72.8780
16	Manshera	Balaot	High	34.5471,73.3510
17	Muzaffargarh	Kot Addu	High	30.4697,70.9670
18	Thatta	Mall	Medium	24.7470,67.9230
19	Bahawalpur	Tahar	High	24.8845,68.8140
20	Rajpur	Jampr	Low	29.6424,70.5990
21	New District	New Vill...	Medium	0.0000,0.0000

Action Output

43	19:28:32	INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES ('New Di...', 'New Vill...', 'Medium', '0.0000,0.0000')	1 rows(s) affected
44	19:28:37	SELECT * FROM Area	21 row(s) returned

Activate Windows Duration / Fetch
Go to Settings to activate Windows 0.015 sec / 0.000 sec / 0.000 sec

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

Local instance MySQL80

Query 1 SQL File 2 SQL File 3 SQL File 4 SQL File 5 SQL File 6

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	Noshera	Pabb	High	34.0113,71.7960
14	Dera Ismail Khan	Kulachi	Low	31.8315,70.4590
15	Orthal	Booni	Medium	36.3210,72.8780
16	Manshera	Balaot	High	34.5471,73.3510
17	Muzaffargarh	Kot Addu	High	30.4697,70.9670
18	Thatta	Mall	Medium	24.7470,67.9230
19	Bahawalpur	Tahar	High	24.8845,68.8140
20	Rajpur	Jampr	Low	29.6424,70.5990
21	New District	New Vill...	Medium	0.0000,0.0000

Table: area

Columns:

AreaID	INT(11)
District	VARCHAR
Village	VARCHAR
SeverityLevel	VARCHAR
GPSCoordinates	VARCHAR

Result Grid

AreaID	District	Village	SeverityLevel	GPSCoordinates
12	Charsadda	Tangi	Medium	34.1490,71.7420
13	Noshera	Pabb	High	34.0113,71.7960
14	Dera Ismail Khan	Kulachi	Low	31.8315,70.4590
15	Orthal	Booni	Medium	36.3210,72.8780
16	Manshera	Balaot	High	34.5471,73.3510
17	Muzaffargarh	Kot Addu	High	30.4697,70.9670
18	Thatta	Mall	Medium	24.7470,67.9230
19	Bahawalpur	Tahar	High	24.8845,68.8140
20	Rajpur	Jampr	Low	29.6424,70.5990
21	New District	New Vill...	Medium	0.0000,0.0000

Action Output

43	19:28:32	INSERT INTO Area (District, Village, SeverityLevel, GPSCoordinates) VALUES ('New Di...', 'New Vill...', 'Medium', '0.0000,0.0000')	1 rows(s) affected
44	19:28:37	SELECT * FROM Area	21 row(s) returned

Activate Windows Duration / Fetch
Go to Settings to activate Windows 0.015 sec / 0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

fbloodad360

- Tables
- Views
- Stored Procedure
- Functions

Information

Table: area

Columns:

AreaID	int
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

AreaID	District	Village	SeverityLevel	GPSCoordinates
1	Swat	Kalam	Low	35.4902,72.5796
2	Charsadda	Tengi	Medium	34.1490,71.7420
3	Nawshera	Pabbi	High	34.0113,71.7960
4	Dera Ismail Khan	Kulachi	Low	31.8315,70.4990
5	Chirat	Borri	Medium	36.3210,72.8780
6	Hanshara	Balakot	High	34.5471,73.3510
7	Muzaffargarh	Kot Addu	High	30.4657,70.9670
8	Thatta	Mall	Medium	24.7470,67.9230
9	Badrin	Tafhor	High	24.8945,68.8140
10	Rajpur	Jampur	Low	29.6424,70.3950
11	Swat	Kalam	High	35.4902,72.5796

Area 21

Output

Action Output

Time Action

45 19:29:22 UPDATE Area SET SeverityLevel = 'Low' WHERE AreaID = 1

46 19:29:41 SELECT * FROM Area

Activate Window Duration / Fetch 0.000 sec Go to Settings to activate 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

fbloodad360

- Tables
- Views
- Stored Procedure
- Functions

Information

Table: area

Columns:

AreaID	int
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

AreaID	District	Village	SeverityLevel	GPSCoordinates
1	Swat	Kalam	Low	35.4902,72.5796
2	Charsadda	Tengi	Medium	34.1490,71.7420
3	Nawshera	Pabbi	High	34.0113,71.7960
4	Dera Ismail Khan	Kulachi	Low	31.8315,70.4990
5	Chirat	Borri	Medium	36.3210,72.8780
6	Hanshara	Balakot	High	34.5471,73.3510
7	Muzaffargarh	Kot Addu	High	30.4657,70.9670
8	Thatta	Mall	Medium	24.7470,67.9230
9	Badrin	Tafhor	High	24.8945,68.8140
10	Rajpur	Jampur	Low	29.6424,70.3950
11	Charsadda	Tengi	Medium	34.1490,71.7420

Area 24

Output

Action Output

Time Action

47 19:30:45 DELETE FROM Area WHERE AreaID = 11

48 19:30:53 SELECT * FROM Area

Activate Window Duration / Fetch 0.015 sec Go to Settings to activate 0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

1. floadaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

AreaID	int /
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

```

282 • INSERT INTO Victim (Name, Age, FamilySize, MedicalNeeds, ShelterStatus, PriorityLevel, AreaID)
283 VALUES ('Rehila Sheikh', 40, 6, 'Pregnant', 'Camp', 'High', 1);
284
285 -- READ (View all victims)
286 • SELECT * FROM Victim
287

```

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	Ali 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	30	4	Heart Problem	Camp	High	7
8	Umer Tarq	33	3	Injury	Shelter Home	Medium	8
9	Rida Parveen	41	6	Diabetic	Camp	High	9
10	Irrfan Khan	27	2	None	Relative Home	Low	10
11	Ruba Shahn	40	6	Pregnant	Camp	High	1

Result 27 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows

Go to Settings to activate [Windows](#)

Duration / Fetch

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

1. floadaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

AreaID	int /
District	varchar
Village	varchar
SeverityLevel	varchar
GPSCoordinates	varchar

Result Grid

```

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

```

Name	PriorityLevel	District	Village
Ayesha Khan	High	Swat	Kalan
Ahmed Ali	High	Charsadda	Tariq
Fatima Noor	High	Noshera	Pabbi
Ali Hussain	Medium	Dera Ismail Khan	Kulach
Sana Malik	Low	Ortial	Booni
Zain Abbas	High	Manshera	Balakot
Hina Raza	High	Muzaffargarh	Kot Addu
Umer Tarq	Medium	Thatta	Mall
Rida Parveen	High	Sadra	Talvar
Irrfan Khan	Low	Ragur	Jampur
Ruba Shahn	High	Swat	Kalan

Result 28 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows

Go to Settings to activate [Windows](#)

Duration / Fetch

MySQL Workbench - Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Administration

Filter objects

Schema: floodaidDB

- Tables
- Views
- Stored Procedures
- Functions
- nationaloffices

Query 1 SQL File 2 SQL File 4 SQL File 5 Don't List

```

284
285 -- READ (View all victims)
286 *   SELECT * FROM Victim;
287
288 -- READ with JOIN to show victim's area
  
```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content |

Table: **area**

Columns:

AreaID	int	Distric	VRC	Village	VRC	SeverityLevel	VRC	GPSCoordinates	VRC
1	Ajedha 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	Uzma 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	Rabea Shah	40	6	Pregnant	Camp	High	1		

Victim 29

Output

Action Output

Time Action

52 19:33:50 UPDATE Victim SET ShelterStatus = 'Hospital' WHERE VictimID = 1

Activate Window Duration / Fetch: 0.000 sec

Message: 1 row(s) affected Row(s) matched: 1 Changed: 1 Warnings: 0 Go to Settings to activate window

Object Info Session

Query Completed.

MySQL Workbench - Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas Administration

Filter objects

Schema: floodaidDB

- Tables
- Views
- Stored Procedures
- Functions
- nationaloffices

Query 1 SQL File 2 SQL File 4 SQL File 5 SQL File 6 Don't List

```

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
  
```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content |

Table: **area**

Columns:

AreaID	int	Distric	VRC	Village	VRC	SeverityLevel	VRC	GPSCoordinates	VRC
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	Uzma 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		

Victim 31

Output

Action Output

Time Action

55 19:35:48 DELETE FROM Victim WHERE VictimID = 11

Activate Window Duration / Fetch: 0.015 sec

Message: 1 row(s) affected Go to Settings to activate window

Object Info Session

Query Completed.

MySQL Workbench

Local instance MySQL00 - X

File Edit View Query Database Server Tools Scripting Help

Manager

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6*

--- CREATE (Add new resource)

386 • INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
VALUES ('Sanitation kits', 100, '2025-05-01', 'WHO')

387
388
389 --- READ (View all resources)

390 • SELECT * FROM Resource

Result Grid Filter Rows Edit Export/Imports Wrap Cell Content

ResourceID	Type	Quantity	ExpiryDate	Source
1	Food Pack	450	2026-01-01	NGO
2	Clean Water Bottles	995	2025-12-01	Government
3	Medical Kit	199	2026-03-15	NGO
4	Blankets	297	2025-09-10	Donation
5	Baby Food	149	2025-10-10	UNICEF
6	Tents	99	2025-08-01	Government
7	Clothes	396	2025-07-01	Public
8	Sanitation Kits	248	2025-11-20	WHO
9	Mosquito Nets	347	2025-08-01	NGO
10	Cooling Utensils	179	2025-07-01	Donation
11	Sanitation Kits	100	2026-05-01	NGO

Resource 32 -

Output

Action Output

Object Info Session

Activate Windows
Go to Settings to activate

Query Completed

MySQL Workbench

Local instance MySQL00 - X

File Edit View Query Database Server Tools Scripting Help

Manager

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 6*

--- CREATE (Add new resource)

386 • INSERT INTO Resource (Type, Quantity, ExpiryDate, Source)
VALUES ('Sanitation kits', 100, '2025-05-01', 'WHO')

387
388
389 --- READ (View all resources)

390 • SELECT * FROM Resource

Result Grid Filter Rows Edit Export/Imports Wrap Cell Content

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	2025-09-10	Donation
5	Baby Food	149	2025-10-10	UNICEF
6	Tents	99	2025-08-01	Government
7	Clothes	396	2025-07-01	Public
8	Sanitation Kits	248	2025-11-20	WHO
9	Mosquito Nets	347	2025-08-01	NGO
10	Cooling Utensils	179	2025-07-01	Donation
11	Sanitation Kits	100	2026-05-01	NGO

Resource 32 -

Output

Action Output

Object Info Session

Activate Windows
Go to Settings to activate

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Result Grid

ResourceID	Type	Quantity	ExpiryDate	Source
1	Food Pack	148	2026-01-01	NGO
2	Clean Water Bottles	998	2026-12-01	Government
3	Medical Kit	199	2026-03-15	NGO
4	Blankets	287	2026-03-15	Donation
5	Baby Food	148	2025-03-10	UNICEF
6	Tents	99	2025-03-15	Government
7	Clothes	398	2026-03-15	Public
8	Sanitation Kits	248	2025-12-20	WHO
9	Mosquito Nets	347	2026-03-15	NGO
10	Cooking Utensils	179	2026-03-15	Donation

Resource 34 x

Output

Action Output

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- Materialized Views

Administration Schemas

Information

Table: area

Columns:

- AreaID
- District
- Village
- SeverityLevel
- GPSCoordinates

Result Grid

Victim	Resource	Quantity	Date
Aysha Khan	Food Pack	2	2026-01-02
Aysha 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
Sara Malik	Baby Food	1	2026-01-02
Zain Abbas	Tents	1	2026-01-02
Hira Riaz	Clothes	4	2026-01-02
Umer Tanq	Sanitation Kits	2	2026-01-02
Nida Parsooq	Mosquito Nets	3	2026-01-02
Imran Khan	Cooking Utensils	1	2026-01-02

Result 20 x

Output

Action Output

Object Info Session

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOCHMAS

0. Filter objects

flooded360

► Tables

► Views

► StoredProcedures

► Functions

► nationaloffices

Administrator Schema

Information

Schema: flooded360

Result Grid | Filter Rows | Data | Export/Import | Wrap Cell Content: |

DistributionID	VictimID	ResourceID	Date	Quantity
1	1	1	2020-01-02	5
2	2	2	2020-01-02	5
3	3	3	2020-01-02	1
4	4	4	2020-01-02	3
5	5	5	2020-01-02	1
6	6	6	2020-01-02	1
7	7	7	2020-01-02	4
8	8	8	2020-01-02	2
9	9	9	2020-01-02	3
10	10	10	2020-01-02	1
11	1	1	2020-01-02	2

Distribution 38 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate Durability/Fetch

The screenshot shows the MySQL Workbench interface with a query editor containing the following SQL code:

```
329 *   SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
330   FROM Distribution
331   JOIN Victim ON Distribution.VictimID = Victim.VictimID
332   JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
333 *
334 *   SELECT * FROM Distribution;
```

The results grid displays 11 rows of data from the Distribution table, with columns: DistributionID, VictimID, ResourceID, Date, and Quantity.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOCHMAS

0. Filter objects

flooded360

► Tables

► Views

► StoredProcedures

► Functions

► nationaloffices

Administrator Schema

Information

Schema: flooded360

Result Grid | Filter Rows | Data | Export/Import | Wrap Cell Content: |

DistributionID	VictimID	ResourceID	Date	Quantity
1	1	1	2020-01-02	5
2	2	2	2020-01-02	5
3	3	3	2020-01-02	1
4	4	4	2020-01-02	3
5	5	5	2020-01-02	1
6	6	6	2020-01-02	1
7	7	7	2020-01-02	4
8	8	8	2020-01-02	2
9	9	9	2020-01-02	3
10	10	10	2020-01-02	1

Distribution 38 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate Durability/Fetch

The screenshot shows the MySQL Workbench interface with a query editor containing the following SQL code, identical to the one in the first screenshot:

```
329 *   SELECT Victim.Name AS Victim, Resource.Type AS Resource, Distribution.Quantity, Distribution.Date
330   FROM Distribution
331   JOIN Victim ON Distribution.VictimID = Victim.VictimID
332   JOIN Resource ON Distribution.ResourceID = Resource.ResourceID;
333 *
334 *   SELECT * FROM Distribution;
335 -- UPDATE (update distribution quantity)
```

The results grid displays 10 rows of data from the Distribution table, with columns: DistributionID, VictimID, ResourceID, Date, and Quantity.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

floodaid360

Tables

Views

Stored Procedures

Functions

Information

Administration Schemas

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)

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

351

352 • SELECT * FROM Volunteer;

353

Result Grid Filter Rows

VolunteerID	Name	Skill	Location	Availability
1	Ali Ahmed	Medical Aid	Swat	1
2	Sara Khan	Food Distribution	Charsadda	1
3	Umer Riaz	Rescue	Nawshera	0
4	Hassan Ali	Logistics	Or Khan	1
5	Areeba Noor	Child Care	Ortial	1
6	Bilal Shah	Medical Aid	Manshera	0
7	Zoya Malik	Shelter Management	Muzaffargah	1
8	Fahed Iqbal	Transport	Thatta	1
9	Noor Fatima	Health Support	Badrin	1
10	Kerman Albar	Supply Handling	Rapur	0
11	Adel Khan	Medical Aid	Swat	1

Volunteer 7* x

Output

Action Output

Object Info Session

Message

Activate Windows

Go to Settings to activate [Windows Firewall](#)

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

floodaid360

Tables

Views

Stored Procedures

Functions

Information

Administration Schemas

Schema: floodaid360

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 7*

353

354 -- READ (View available volunteers)

355 • SELECT Name, Skill, Location

356 FROM Volunteer

357 WHERE Availability = TRUE;

358

Result Grid Filter Rows

Name	Skill	Location
Ali Ahmed	Medical Aid	Swat
Sara Khan	Food Distribution	Charsadda
Hassan Ali	Logistics	Or Khan
Areeba Noor	Child Care	Ortial
Zoya Malik	Shelter Management	Muzaffargah
Fahed Iqbal	Transport	Thatta
Noor Fatima	Health Support	Badrin
Adel Khan	Medical Aid	Swat

Volunteer 4* x

Output

Action Output

Object Info Session

Message

Activate Windows

Go to Settings to activate [Windows Firewall](#)

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

1. Floodaid360

- Tables
- Views
- Stored Procedures
- Functions

2. nationaldisasters

Administration Schemas

Information

Schema: Floodaid360

Result Grid Filter Rows Table Export/Import Wrap Cell Content

VolunteerID	Name	Skill	Location	Availability
1	Ali Ahmed	Medical Aid	Swat	0
2	Sara Khan	Food Distribution	Charsadda	1
3	Umran Riaz	Rescue	Noshera	0
4	Hassan Ali	Logistics	D.I Khan	1
5	Areeba Noor	Child Care	Orthal	1
6	Bilal Shah	Medical Aid	Manshera	0
7	Zoya Malik	Shelter Management	Muzaffargarh	1
8	Fahad Iqbal	Transport	Thatta	1
9	Noor Fatima	Health Support	Badrin	1
10	Kawran Albar	Supply Handling	Rajur	0
11	Aded Khan	Medical Aid	Swat	1

Volunteer ID: 1

Output Action Output

Object Info Session

Query Completed

Activate Windows Go to Settings to activate Duration / Depth

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

0. Filter objects

1. Floodaid360

- Tables
- Views
- Stored Procedures
- Functions

2. nationaldisasters

Administration Schemas

Information

Schema: Floodaid360

Result Grid Filter Rows Table Export/Import Wrap Cell Content

VolunteerID	Name	Skill	Location	Availability
1	Ali Ahmed	Medical Aid	Swat	0
2	Sara Khan	Food Distribution	Charsadda	1
3	Umran Riaz	Rescue	Noshera	0
4	Hassan Ali	Logistics	D.I Khan	1
5	Areeba Noor	Child Care	Orthal	1
6	Bilal Shah	Medical Aid	Manshera	0
7	Zoya Malik	Shelter Management	Muzaffargarh	1
8	Fahad Iqbal	Transport	Thatta	1
9	Noor Fatima	Health Support	Badrin	1
10	Kawran Albar	Supply Handling	Rajur	0
11	Aded Khan	Medical Aid	Swat	1

Volunteer ID: 1

Output Action Output

Object Info Session

Query Completed

Activate Windows Go to Settings to activate Duration / Depth

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

0. Filter objects

+ **bloodaid360**

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration Schemas

Information

Schema: bloodaid360

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content |

DonorID	Name	Contact	DonationType
1	Edu 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
12			

Donor 44 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate [Edition / Fast](#)

This screenshot shows the MySQL Workbench interface with the 'bloodaid360' schema selected. The 'Query 1' tab contains the following SQL code:

```
-- CREATE (Add donor)
INSERT INTO Donor (Name, Contact, DonationType)
VALUES ('Global Fund', '0300-1112222', 'Medical')

-- READ (View all donors)
SELECT * FROM Donor;
```

The 'Result Grid' pane displays the data from the 'Donor' table, which includes 12 rows of donor information with columns: DonorID, Name, Contact, and DonationType.

MySQL Workbench

Local instance MySQL80 X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

0. Filter objects

+ **bloodaid360**

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration Schemas

Information

Schema: bloodaid360

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Content |

DonorID	Name	Contact	DonationType
1	Edu 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
12			

Donor 45 x

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate [Edition / Fast](#)

This screenshot shows the MySQL Workbench interface with the 'bloodaid360' schema selected. The 'Query 1' tab contains the same SQL code as the first screenshot:

```
-- CREATE (Add donor)
INSERT INTO Donor (Name, Contact, DonationType)
VALUES ('Global Fund', '0300-1112222', 'Medical')

-- READ (View all donors)
SELECT * FROM Donor;
```

The 'Result Grid' pane displays the data from the 'Donor' table, which includes 12 rows of donor information with columns: DonorID, Name, Contact, and DonationType.

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration Schemas

Information

Schema: floodaid360

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

```
-- CREATE (And donor)
INSERT INTO Donor (Name, Contact, DonationType)
VALUES ('Bimal Patel', '8000-1111111', 'Medical')
-- READ (View all donors)
SELECT * FROM Donor
```

Result Grid | Filter Rows | Date | Export/Import | Wrap Cell Content: []

DonorID	Name	Contact	DonationType
1	Edn Foundation	030-99988888	Food
2	Saylan Welfare	021-111-222	Medical
3	Al-Ridhaat	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	0301-7894521	Food
9	NGO Care	042-555-777	Sanitation
10	Local Community	0302-99988888	Clothes
11			

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate Duration / Task

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions

nationaloffices

Administration Schemas

Information

Schema: floodaid360

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

```
-- CREATE (Record donation)
INSERT INTO Donation (DonorID, ResourceID, Amount, Date)
VALUES (1, 1, 200, CURDATE());
-- READ (View all donations)
SELECT * FROM Donation;
```

Result Grid | Filter Rows | Date | Export/Import | Wrap Cell Content: []

DonationID	DonorID	ResourceID	Amount	Date
1	1	1	200	2026-01-02
2	2	3	150	2026-01-02
3	3	6	90	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
12				

Output

Action Output

Object Info Session

Query Completed

Activate Windows
Go to Settings to activate Duration / Task

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOCHMAS

0. Filter objects

+ floodaid360

- Tables
- Views
- Stored Procedures
- Functions

+ nationaloffices

Administration Schema

Information

Schema: floodaid360

Result Grid | Filter Rows | Export | Wrap Cell Content:

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-Khairat	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 x

Output

Action Output

Object Info Session

Message

Activate Windows

Go to Settings to activate Duration / Fetch

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SOCHMAS

0. Filter objects

+ floodaid360

- Tables
- Views
- Stored Procedures
- Functions

+ nationaloffices

Administration Schema

Information

Schema: floodaid360

Result Grid | Filter Rows | Export | 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	10	2026-01-02
4	4	2	300	2026-01-02
5	3	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
12	12	12	300	2026-01-02

Donation 49 x

Output

Action Output

Object Info Session

Message

Activate Windows

Go to Settings to activate Duration / Fetch

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

0. Filter objects

+ floodaid360

- Tables
- Views
- Stored Procedures
- Functions

+ nationaloffice

Administrators Schemas

Information

Schema: floodaid360

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6*

389 -- CREATE (Record donation)

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

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

391 • SELECT * FROM Donations;

Result Grid | Filter Rows | Export | Wrap Cell Content: []

DonationID	DonorID	ResourceID	Amount	Date
1	1	1	300	2026-01-02
2	2	3	150	2026-01-03
3	3	6	90	2026-01-01
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 10: x

Output

Action Output

Object Info Session

Message

Activate Windows
Go to Settings to activate Duration/Fetch

Query Completed

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

0. Filter objects

+ floodaid360

- Tables
- Views
- Stored Procedures
- Functions

+ nationaloffice

Administrators Schemas

Information

Schema: floodaid360

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6*

413 --

414

415 -- 1. High-priority victims

416 • SELECT Name, PriorityLevel

FROM Victim

417 WHERE PriorityLevel = 'High';

Result Grid | Filter Rows | Export | Wrap Cell Content: []

Name	PriorityLevel
Ayesha Khan	High
Ahmed Ali	High
Patricia Noor	High
Zain Abbas	High
Hina Raza	High
Nida Farooq	High

Victim 1: x

Output

Action Output

Object Info Session

Message

Activate Windows
Go to Settings to activate Duration/Fetch

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialoffices

Administration Schemas

Information

Schema: floodaid360

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6*

```
-- 2. Resources about to expire
SELECT Type, ExpiryDate
FROM Resource
WHERE ExpiryDate IS NOT NULL
ORDER BY ExpiryDate ASC;
```

Result Grid | Filter Rows | Export | Wrap Cell Content

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

Resource 52

Output

Action Output

Object Info Session

Time Action

Message

Activate Windows

Go to Settings to activate Duration / Patch

Query Completed

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialoffices

Administration Schemas

Information

Schema: floodaid360

Query 1 SQL File 3* SQL File 4* SQL File 5* SQL File 6*

```
ORDER BY ExpiryDate ASC;
-- 3. Volunteers by skill and location
SELECT Name, Skill
FROM Volunteer
WHERE Skill = "Medical aid" AND Location = "West" AND Availability = TRUE;
```

Result Grid | Filter Rows | Export | Wrap Cell Content

Name	Skill
------	-------

Volunteer 53

Output

Action Output

Object Info Session

Time Action

Message

Activate Windows

Go to Settings to activate Duration / Patch

Query Completed

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS: Roodaid360

4. Donations summary by donor:

```

431 -- 4. Donations summary by donor
432 SELECT Donor.Name, SUM(Donation.Amount) AS TotalAmount
433 FROM Donation
434 JOIN Donor ON Donation.DonorID = Donor.DonorID
435 GROUP BY Donor.Name

```

Result Grid | Filter Rows | Export | Wrap Cell Content |

Name	TotalAmount
Eds Foundation	300
Syrian Welfare	150
All-Khanda	90
Red Crescent	300
UNICEF	100
WHO	180
Private Donor A	250
Private Donor B	120
NGO Care	160
Local Community	90

Result 34 x

Output

Action Output

Object Info Session

Message

Activate Windows
Go to Settings to activate Duration / Fresh

Query Completed:

MySQL Workbench

Local instance MySQL80 - X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS: Roodaid360

5. Distribution summary by victim:

```

436 SELECT Victim.Name AS Victim, Resource.Type AS Resource, SUM(Distribution.Quantity) AS TotalGiven
437 FROM Distribution
438 JOIN Victim ON Distribution.VictimID = Victim.VictimID
439 JOIN Resource ON Distribution.ResourceID = Resource.ResourceID
440 GROUP BY Victim.Name, Resource.Type

```

Result Grid | Filter Rows | Export | Wrap Cell Content |

Victim	Resource	TotalGiven
Ayesha Khan	Food Pack	5
Alfred Ali	Clean Water Bottles	5
Fatima Noor	Medical Kit	1
Bilal Hussain	Blankets	3
Sana Malik	Baby Food	1
Zain Abbas	Tents	1
Hina Riaz	Clothes	4
Usman Tariq	Sanitation Kits	2
Nida Farooq	Mosquito Nets	3
Sheran Khan	Cooking Utensils	1

Result 35 x

Output

Action Output

Object Info Session

Message

Activate Windows
Go to Settings to activate Duration / Fresh

Query Completed:

MySQL Workbench

Local instance MySQL80 -

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration Schemas

Information

Schema: Floodaid360

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

```
-- 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;
```

Result Grid | Filter Rows: Export: Wrap Cell Content:

District	TotalVictims
Sohat	1
Charsadda	1
Noshera	1
Dera Ismail Khan	1
Chital	1
Mianwali	1
Muzaffargarh	1
Thatta	1
Bidni	1
Rajpur	1

Result Set ×

Output

Action Output

Time Action

Message

Activate Windows
Go to Settings to activate [Duration / Result](#)

Object Info Session

Query Completed

MySQL Workbench

Local instance MySQL80 -

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

Floodaid360

- Tables
- Views
- Stored Procedures
- Functions
- materialized views

Administration Schemas

Information

Schema: Floodaid360

Query 1 SQL File 2* SQL File 4* SQL File 5* SQL File 7*

```
-- 7. Dashboard: available volunteers per skill
SELECT Skill, COUNT(*) AS AvailableVolunteers
FROM Volunteer
WHERE Availability = TRUE
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 Set ×

Output

Action Output

Time Action

Message

Activate Windows
Go to Settings to activate [Duration / Result](#)

Object Info Session

Query Completed

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.

