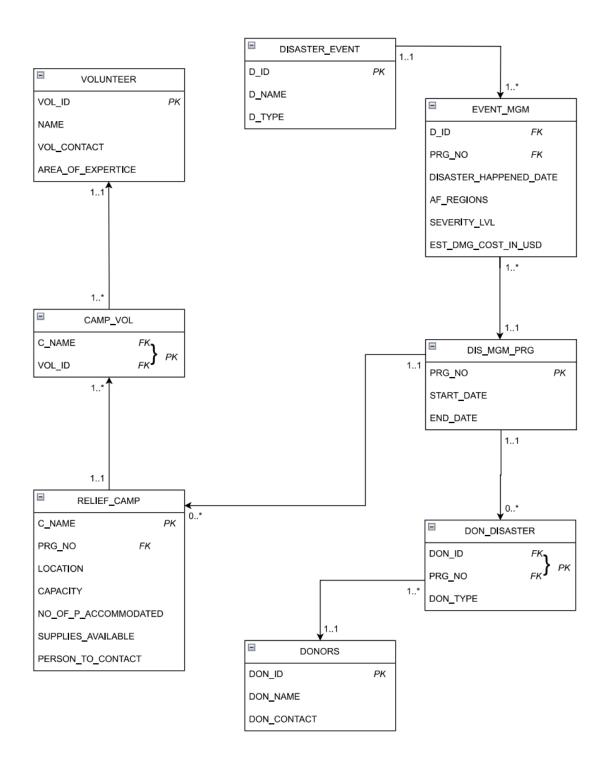**4BUIS015C.1 Database Design and Implementation**

COURSEWORK

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ER Diagram:

DISASTER_EVENT

D_ID	PK
D_NAME	
D_TYPE	

1..1

1..*

EVENT_MGM

D_ID	FK
PRG_NO	FK
DISASTER_HAPPENED_DATE	
AF_REGIONS	
SEVERITY_LVL	
EST_DMG_COST_IN_USD	

VOLUNTEER

VOL_ID	PK
NAME	
VOL_CONTACT	
AREA_OF_EXPERTICE	

1..1

1..*

CAMP_VOL

C_NAME	FK } PK
VOL_ID	FK

1..*

1..1

1..*

1..1

DIS_MGM_PRG

PRG_NO	PK
START_DATE	
END_DATE	

1..1

1..1

0..*

RELIEF_CAMP

C_NAME	PK
PRG_NO	FK
LOCATION	
CAPACITY	
NO_OF_P_ACCOMMODATED	
SUPPLIES_AVAILABLE	
PERSON_TO_CONTACT	

0..*

DON_DISASTER

DON_ID	FK } PK
PRG_NO	FK
DON_TYPE	

1..*

1..1

DONORS

DON_ID	PK
DON_NAME	
DON_CONTACT	

- Only 'NATURAL' or 'MAN MADE' value can be added to 'D_TYPE' column in 'DISASTER_EVENT' table.

- Only 'CASH' or 'GOODS' value can be added to 'DON_TYPE' column in 'DON_DISASTER' Stable.

- Only 'MINOR DISASTER' or 'MODERATE DISASTER' or 'MAJOR DISASTER' value can be added to 'SEVERITY_LVL' column in 'EVENT_MGM' table.

- Here 'MINOR DISASTER' means disasters with minor damage to society.
  Here 'MODERATE DISASTER' means disasters with moderate impact to society.
  Here 'MAJOR DISASTER' means disasters with extensive damage to society.

- Here 'EST_DMG_COST_IN_USD' will not have any decimal points.

Entity	Primary Key (PK)	Foreign Key (FK)	Rationale for PK
DISASTER_EVENT	D_ID	N/A	D_ID is unique to each disaster event.
EVENT_MGM	D_ID, PRG_NO	D_ID, PRG_NO	EVENT_MGM is a linking entity of DISASTER_EVENT and DIS_MGM_PRG.
DIS_MGM_PRG	PRG_NO	N/A	PRG_NO is unique to each disaster management program.
DON_DISASTER	DON_ID, PRG_NO	DON_ID, PRG_NO	
DONORS	DON_ID	N/A	DON_ID is unique to each donor.
RELIEF_CAMP	C_NAME	N/A	C_NAME is unique to each relief camp.
CAMP_VOL	C_NAME, VOL_ID	C_NAME, VOL_ID	CAMP_VOL is a linking entity of RELIEF_CAMP and VOLUNTEER.
VOLUNTEER	VOL_ID	N/A	VOL_ID is unique to each volunteer.

Sample SQL script file:

DROP TABLE IF EXISTS EVENT_MGM;

DROP TABLE IF EXISTS DON_DISASTER;

DROP TABLE IF EXISTS CAMP_VOL;

DROP TABLE IF EXISTS DONORS;

DROP TABLE IF EXISTS RELIEF_CAMP;

DROP TABLE IF EXISTS DISASTER_EVENT;

DROP TABLE IF EXISTS DIS_MGM_PRG;

DROP TABLE IF EXISTS VOLUNTEER;

CREATE TABLE DISASTER_EVENT (D_ID INT(3), D_NAME CHAR(25), D_TYPE CHAR(10));

CREATE TABLE EVENT_MGM (D_ID INT(3), PRG_NO INT(8), DISASTER_HAPPENED_DATE DATE,

                AF_REGIONS CHAR(25), SEVERITY_LVL CHAR(20),

                EST_DMG_COST_IN_USD INT);

CREATE TABLE DIS_MGM_PRG (PRG_NO INT(8), START_DATE DATE, END_DATE DATE);

CREATE TABLE DON_DISASTER (DON_ID INT(5), PRG_NO INT(8), DON_TYPE CHAR(5));

CREATE TABLE DONORS (DON_ID INT(5), DON_NAME CHAR(25), DON_CONTACT CHAR(11));

CREATE TABLE RELIEF_CAMP (C_NAME CHAR(25), PRG_NO INT(8), LOCATION CHAR(25),

                CAPACITY INT, NO_OF_P_ACCOMMODATED INT,

                SUPPLIES_AVAILABLE CHAR(25), PERSON_TO_CONTACT CHAR(25));

CREATE TABLE CAMP_VOL (C_NAME CHAR(25), VOL_ID INT(8));

```
CREATE TABLE VOLUNTEER (VOL_ID INT(8), NAME CHAR(25), VOL_CONTACT CHAR(11),
                        AREA_OF_EXPERTICE CHAR(25));


/*

Set primary keys for all tables

*/

ALTER TABLE DISASTER_EVENT ADD CONSTRAINT pk_D_ID PRIMARY KEY (D_ID);

ALTER TABLE EVENT_MGM ADD CONSTRAINT pk_D_ID_PRG_NO PRIMARY KEY (D_ID,
PRG_NO);

ALTER TABLE DIS_MGM_PRG ADD CONSTRAINT pk_PRG_NO PRIMARY KEY (PRG_NO);

ALTER TABLE DON_DISASTER ADD CONSTRAINT pk_DON_ID_PRG_NO PRIMARY KEY (DON_ID,
PRG_NO);

ALTER TABLE DONORS ADD CONSTRAINT pk_DON_ID PRIMARY KEY (DON_ID);

ALTER TABLE RELIEF_CAMP ADD CONSTRAINT pk_C_NAME PRIMARY KEY (C_NAME);

ALTER TABLE CAMP_VOL ADD CONSTRAINT pk_C_NAME_VOL_ID PRIMARY KEY (C_NAME,
VOL_ID);

ALTER TABLE VOLUNTEER ADD CONSTRAINT pk_VOL_ID PRIMARY KEY (VOL_ID);


/*

Set foreign keys for ALL LINK tables

*/

ALTER TABLE EVENT_MGM ADD CONSTRAINT fk_EVENT_MGM_D_ID FOREIGN KEY (D_ID)
REFERENCES DISASTER_EVENT(D_ID);

ALTER TABLE EVENT_MGM ADD CONSTRAINT fk_EVENT_MGM_PRG_NO FOREIGN KEY
(PRG_NO) REFERENCES DIS_MGM_PRG(PRG_NO);

ALTER TABLE DON_DISASTER ADD CONSTRAINT fk_DON_DISASTER_DON_ID FOREIGN KEY
(DON_ID) REFERENCES DONORS(DON_ID);

ALTER TABLE DON_DISASTER ADD CONSTRAINT fk_DON_DISASTER_PRG_NO FOREIGN KEY
(PRG_NO) REFERENCES DIS_MGM_PRG(PRG_NO);
```

```sql
ALTER TABLE RELIEF_CAMP ADD CONSTRAINT fk_RELIEF_CAMP_PRG_NO FOREIGN KEY
(PRG_NO) REFERENCES DIS_MGM_PRG(PRG_NO);

ALTER TABLE CAMP_VOL ADD CONSTRAINT fk_CAMP_VOL_C_NAME FOREIGN KEY (C_NAME)
REFERENCES RELIEF_CAMP(C_NAME);

ALTER TABLE CAMP_VOL ADD CONSTRAINT fk_CAMP_VOL_VOL_ID FOREIGN KEY (VOL_ID)
REFERENCES VOLUNTEER(VOL_ID);


/*
Inserting Data
*/
/*
DISASTER_EVENT:
*/
insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('001', 'FLOOD', 'NATURAL');

insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('002', 'LANDSLIDE', 'NATURAL');

insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('003', 'CYCLONE', 'NATURAL');

insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('004', 'DROUGHT', 'NATURAL');

insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('005', 'WILD FIRE', 'MAN MADE');

insert into DISASTER_EVENT (D_ID, D_NAME, D_TYPE) values ('006', 'COVID VIRUS', 'MAN
MADE');


/*
DIS_MGM_PRG:
*/
insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)
values ('20230101', STR_TO_DATE("05/01/2023",'%d/%m/%Y'),
STR_TO_DATE("06/01/2023",'%d/%m/%Y'));


insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)
```

```sql
values ('20230102', STR_TO_DATE("08/01/2023",'%d/%m/%Y'),
STR_TO_DATE("31/01/2023",'%d/%m/%Y'));


insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)

values ('20230201', STR_TO_DATE("10/02/2023",'%d/%m/%Y'),
STR_TO_DATE("03/03/2023",'%d/%m/%Y'));


insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)

values ('20230301', STR_TO_DATE("15/03/2023",'%d/%m/%Y'),
STR_TO_DATE("25/03/2023",'%d/%m/%Y'));


insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)

values ('20230302', STR_TO_DATE("20/03/2023",'%d/%m/%Y'),
STR_TO_DATE("28/10/2023",'%d/%m/%Y'));


insert into DIS_MGM_PRG (PRG_NO, START_DATE, END_DATE)

values ('20230501', STR_TO_DATE("11/05/2023",'%d/%m/%Y'),
STR_TO_DATE("30/06/2023",'%d/%m/%Y'));


/*

EVENT_MGM:

*/

/*

EVENT_MGM1:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('001', '20230101', STR_TO_DATE("05/01/2023",'%d/%m/%Y'), 'CENTRAL PROVINCE',
'MINOR DISASTER', '100');
```

```
/*

EVENT_MGM2:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('001', '20230102', STR_TO_DATE("08/01/2023",'%d/%m/%Y'), 'EAST PROVINCE',
'MODERATE DISASTER', '1500');


insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('002', '20230102', STR_TO_DATE("08/01/2023",'%d/%m/%Y'), 'EAST PROVINCE',
'MODERATE DISASTER', '1000');


/*

EVENT_MGM3:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('003', '20230201', STR_TO_DATE("10/02/2023",'%d/%m/%Y'), 'SOUTH PROVINCE',
'MODERATE DISASTER', '1000');


/*

EVENT_MGM4:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('005', '20230301', STR_TO_DATE("15/03/2023",'%d/%m/%Y'), 'WEST PROVINCE',
'MODERATE DISASTER', '800');
```

```
/*

EVENT_MGM5:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('006', '20230302', STR_TO_DATE("20/03/2023",'%d/%m/%Y'), 'ALL PROVINCES', 'MAJOR
DISASTER', '5000');


/*

EVENT_MGM6:

*/

insert into EVENT_MGM (D_ID, PRG_NO, DISASTER_HAPPENED_DATE, AF_REGIONS,
SEVERITY_LVL, EST_DMG_COST_IN_USD)

values ('004', '20230501', STR_TO_DATE("11/05/2023",'%d/%m/%Y'), 'CENTRAL PROVINCE',
'MODERATE DISASTER', '1300');


/*

DONORS:

*/

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00100', 'RON', '071-
2673456');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00101', 'MARK', '073-
1176554');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00102', 'ROSE', '074-
1622334');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00103', 'JACK', '070-
9876543');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00104', 'BOLE', '077-
5454542');
```

```sql
insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00105', 'LISA', '076-2345678');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00106', 'JANE', '078-4455667');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00107', 'SIRA', '071-4224189');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00108', 'FRED', '076-7644529');

insert into DONORS (DON_ID, DON_NAME, DON_CONTACT) values ('00109', 'DREK', '070-5473905');


/*

DON_DISASTER:

*/

/*

DON_DISASTER2:

*/

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00100', '20230102', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00101', '20230102', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00102', '20230102', 'GOODS');

/*

DON_DISASTER3:

*/

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00103', '20230201', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00101', '20230201', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00102', '20230201', 'CASH');
```

```
/*

DON_DISASTER4:

*/

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00101', '20230301', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00103', '20230301', 'GOODS');


/*

DON_DISASTER5:

*/

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00102', '20230302', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00104', '20230302', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00105', '20230302', 'CASH');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00106', '20230302', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00107', '20230302', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00108', '20230302', 'CASH');


/*

DON_DISASTER6:

*/

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00100', '20230501', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00109', '20230501', 'GOODS');

insert into DON_DISASTER (DON_ID, PRG_NO, DON_TYPE) values ('00105', '20230501', 'GOODS');
```

```
/*
RELIEF_CAMP:
*/

insert into RELIEF_CAMP (C_NAME, PRG_NO, LOCATION, CAPACITY,
NO_OF_P_ACCOMMODATED, SUPPLIES_AVAILABLE, PERSON_TO_CONTACT)

values ('UNITY SHELTER', '20230102', 'DOLAHENA JUNCTON', '10000', '8745', '2 DAYS', 'DR.
EMMA');


insert into RELIEF_CAMP (C_NAME, PRG_NO, LOCATION, CAPACITY,
NO_OF_P_ACCOMMODATED, SUPPLIES_AVAILABLE, PERSON_TO_CONTACT)

values ('AID OASIS', '20230201', 'DOLAHENA JUNCTON', '1000', '885', 'NONE ', 'DR. MAHI');


insert into RELIEF_CAMP (C_NAME, PRG_NO, LOCATION, CAPACITY,
NO_OF_P_ACCOMMODATED, SUPPLIES_AVAILABLE, PERSON_TO_CONTACT)

values ('SAFE HEAVEN', '20230301', 'NANU KALE', '3000', '1500', '3 DAYS', 'DR. KONG');


insert into RELIEF_CAMP (C_NAME, PRG_NO, LOCATION, CAPACITY,
NO_OF_P_ACCOMMODATED, SUPPLIES_AVAILABLE, PERSON_TO_CONTACT)

values ('COVID SHELTER', '20230302', 'CENTRAL HOSPITAL', '10000', '8500', '22 DAYS', 'DR.
EMMA');


insert into RELIEF_CAMP (C_NAME, PRG_NO, LOCATION, CAPACITY,
NO_OF_P_ACCOMMODATED, SUPPLIES_AVAILABLE, PERSON_TO_CONTACT)

values ('DROUGHT RESPONSE HUB', '20230501', 'CENTRAL STREET', '3000', '1500', 'NONE', 'MR.
JOHN');


/*
VOLUNTEER:
*/
```

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000434', 'KIRA', '071-4274555', 'LOGISTIC');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000435', 'SIRA', '071-4224189', 'LOGISTIC');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000436', 'SARA', '071-4535455', 'HEALTH');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000437', 'MIKE', '075-1122334', 'HEALTH');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000438', 'JANE', '078-4455667', 'FOOD DISTRIBUTION');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000439', 'ROSE', '074-1622334', 'HEALTH');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000440', 'NICK', '072-2175464', 'LOGISTIC');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000441', 'MARK', '073-1176554', 'HEALTH');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000442', 'SACK', '074-1426534', 'HEALTH');

insert into VOLUNTEER (VOL_ID, NAME, VOL_CONTACT, AREA_OF_EXPERTICE) values ('20000443', 'FRED', '076-7644529', 'HEALTH');

/*

CAMP_VOL:

*/

/*

CAMP_VOL2:

*/

insert into CAMP_VOL (C_NAME, VOL_ID) values ('UNITY SHELTER', '20000434');

insert into CAMP_VOL (C_NAME, VOL_ID) values ('UNITY SHELTER', '20000435');

insert into CAMP_VOL (C_NAME, VOL_ID) values ('UNITY SHELTER', '20000436');

```
/*
CAMP_VOL3:
*/
insert into CAMP_VOL (C_NAME, VOL_ID) values ('AID OASIS', '20000437');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('AID OASIS', '20000434');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('AID OASIS', '20000438');


/*
CAMP_VOL4:
*/
insert into CAMP_VOL (C_NAME, VOL_ID) values ('SAFE HEAVEN', '20000437');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('SAFE HEAVEN', '20000438');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('SAFE HEAVEN', '20000434');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('SAFE HEAVEN', '20000439');


/*
CAMP_VOL5:
*/
insert into CAMP_VOL (C_NAME, VOL_ID) values ('COVID SHELTER', '20000441');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('COVID SHELTER', '20000442');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('COVID SHELTER', '20000443');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('COVID SHELTER', '20000437');
insert into CAMP_VOL (C_NAME, VOL_ID) values ('COVID SHELTER', '20000439');
```

```
/*

CAMP_VOL6:

*/
```

insert into CAMP_VOL (C_NAME, VOL_ID) values ('DROUGHT RESPONSE HUB', '20000435');

insert into CAMP_VOL (C_NAME, VOL_ID) values ('DROUGHT RESPONSE HUB', '20000440');

insert into CAMP_VOL (C_NAME, VOL_ID) values ('DROUGHT RESPONSE HUB', '20000443');

Ten SQL query scripts:

Query No	Purpose	Tables involved	SQL	Correct Execution
1	To find the disaster with highest estimated damage cost.	EVENT_MGM	SELECT D_NAME, MAX(EST_DMG_COST_IN_USD) AS Max_Damage_Cost FROM EVENT_MGM JOIN DISASTER_EVENT ON EVENT_MGM.D_ID = DISASTER_EVENT.D_ID;	Yes

✔ Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

SELECT D_NAME, MAX(EST_DMG_COST_IN_USD) AS Max_Damage_Cost FROM EVENT_MGM JOIN DISASTER_EVENT ON EVENT_MGM.D_ID = DISASTER_EVENT.D_ID;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

Extra options

D_NAME	Max_Damage_Cost
FLOODS	5000

☐ Show all | Number of rows: 25 ⌄   Filter rows: Search this table

Query No	Purpose	Tables involved	SQL	Correct Execution
2	To find all the donations made by 'ROSE'.	DONORS DON_DISASTER	SELECT DON_NAME, DON_TYPE FROM DONORS JOIN DON_DISASTER ON DONORS.DON_ID = DON_DISASTER.DON_ID WHERE DON_NAME = 'ROSE';	Yes

DON_NAME	DON_TYPE
ROSE	GOODS
ROSE	CASH
ROSE	CASH

3	To find the relief camp with highest number of people accommadated.	RELIEF_CAMP	SELECT C_NAME, MAX(NO_OF_P_ACCOMMODATED) AS Max_Accommodated FROM RELIEF_CAMP;	Yes

4	To find all the donors who donated cash	DONORS DON_DISASTER	SELECT DON_NAME FROM DONORS JOIN DON_DISASTER ON DONORS.DON_ID = DON_DISASTER.DON_ID WHERE DON_TYPE = 'CASH';	Yes

```sql
SELECT DON_NAME FROM DONORS JOIN DON_DISASTER ON DONORS.DON_ID = DON_DISASTER.DON_ID WHERE DON_TYPE = 'CASH';
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all │ Number of rows: 25 ⌄ Filter rows: Search this table Sort by key: None ⌄

Extra options

DON_NAME
MARK
MARK
MARK
ROSE
ROSE
BOLE
LISA
FRED

☐ Show all │ Number of rows: 25 ⌄ Filter rows: Search this table Sort by key: None ⌄

5	To find volunteers who are expertise in health and logistics.	VOLUNTEER	SELECT NAME, VOL_CONTACT FROM VOLUNTEER WHERE AREA_OF_EXPERTICE IN ('HEALTH', 'LOGISTIC');	Yes

```sql
SELECT NAME, VOL_CONTACT, AREA_OF_EXPERTICE FROM VOLUNTEER WHERE AREA_OF_EXPERTICE IN ('HEALTH', 'LOGISTIC');
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all │ Number of rows: 25 ⌄ Filter rows: Search this table Sort by key: None ⌄

Extra options

	NAME	VOL_CONTACT	AREA_OF_EXPERTICE
☐ 🖉 Edit ⚄ Copy ⊖ Delete	KIRA	071-4274555	LOGISTIC
☐ 🖉 Edit ⚄ Copy ⊖ Delete	SIRA	071-4224189	LOGISTIC
☐ 🖉 Edit ⚄ Copy ⊖ Delete	SARA	071-4535455	HEALTH
☐ 🖉 Edit ⚄ Copy ⊖ Delete	MIKE	075-1122334	HEALTH
☐ 🖉 Edit ⚄ Copy ⊖ Delete	ROSE	074-1622334	HEALTH
☐ 🖉 Edit ⚄ Copy ⊖ Delete	NICK	072-2175464	LOGISTIC
☐ 🖉 Edit ⚄ Copy ⊖ Delete	MARK	073-1176554	HEALTH
☐ 🖉 Edit ⚄ Copy ⊖ Delete	SACK	074-1426534	HEALTH
☐ 🖉 Edit ⚄ Copy ⊖ Delete	FRED	076-7644529	HEALTH

↑ ☐ Check all With selected: 🖉 Edit ⚄ Copy ⊖ Delete 📥 Export

6	To find donors who also volunteered for relief camps.	DONORS VOLUNTEER	SELECT DISTINCT d.DON_NAME, d.DON_CONTACT FROM DONORS d JOIN VOLUNTEER v ON d.DON_NAME = v.NAME AND d.DON_CONTACT = v.VOL_CONTACT;	Yes

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

SELECT DISTINCT d.DON_NAME, d.DON_CONTACT FROM DONORS d JOIN VOLUNTEER v ON d.DON_NAME = v.NAME AND d.DON_CONTACT = v.VOL_CONTACT;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table | Sort by key: None ⌄

Extra options

DON_NAME	DON_CONTACT
SIRA	071-4224189
JANE	078-4455667
ROSE	074-1622334
MARK	073-1176554
FRED	076-7644529

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table | Sort by key: None ⌄

7	To find the total number of volunteers who are experts in each area of expertise.	VOLUNTEER	SELECT AREA_OF_EXPERTICE, COUNT(VOL_ID) AS Total_Volunteers FROM VOLUNTEER GROUP BY AREA_OF_EXPERTICE;	Yes

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

SELECT AREA_OF_EXPERTICE, COUNT(VOL_ID) AS Total_Volunteers FROM VOLUNTEER GROUP BY AREA_OF_EXPERTICE;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table

Extra options

AREA_OF_EXPERTICE	Total_Volunteers
FOOD DISTRIBUTION	1
HEALTH	6
LOGISTIC	3

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table

8	To find the total number of volunteers in each relief camp	RELIEF_CAMP CAMP_VOL	SELECT rc.C_NAME, COUNT(cv.VOL_ID) AS Total_Volunteers FROM RELIEF_CAMP rc LEFT JOIN CAMP_VOL cv ON rc.C_NAME = cv.C_NAME GROUP BY rc.C_NAME;	Yes

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

SELECT rc.C_NAME, COUNT(cv.VOL_ID) AS Total_Volunteers FROM RELIEF_CAMP rc LEFT JOIN CAMP_VOL cv ON rc.C_NAME = cv.C_NAME GROUP BY rc.C_NAME;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▽ Filter rows: Search this table

Extra options

C_NAME	Total_Volunteers
AID OASIS	3
COVID SHELTER	5
DROUGHT RESPONSE HUB	3
SAFE HEAVEN	4
UNITY SHELTER	3

☐ Show all | Number of rows: 25 ▽ Filter rows: Search this table

9	To find donors who have donated both cash and goods.	DONORS DON_DISASTER	SELECT DON_ID, DON_NAME FROM DONORS WHERE DON_ID IN (SELECT DON_ID FROM DON_DISASTER WHERE DON_TYPE = 'GOODS' INTERSECT SELECT DON_ID FROM DON_DISASTER WHERE DON_TYPE = 'CASH');	Yes

SELECT DON_ID, DON_NAME FROM DONORS WHERE DON_ID IN (SELECT DON_ID FROM DON_DISASTER WHERE DON_TYPE = 'GOODS' INTERSECT SELECT DON_ID FROM DON_DISASTER WHERE DON_TYPE = 'CASH');

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾

Extra options

				DON_ID	DON_NAME
☐	🖉 Edit	📋 Copy	🗑 Delete	102	ROSE
☐	🖉 Edit	📋 Copy	🗑 Delete	105	LISA

↑ ☐ Check all   With selected: 🖉 Edit   📋 Copy   🗑 Delete   📤 Export

10	To find donors who have donated for disasters that occurred after 01-03-2023.	DONORS DON_DISASTER DIS_MGM_PRG	SELECT DISTINCT d.DON_NAME FROM DONORS d JOIN DON_DISASTER dd ON d.DON_ID = dd.DON_ID JOIN DIS_MGM_PRG dmp ON dd.PRG_NO = dmp.PRG_NO WHERE dmp.START_DATE > '2023-03-01';	Yes

SELECT DISTINCT d.DON_NAME FROM DONORS d JOIN DON_DISASTER dd ON d.DON_ID = dd.DON_ID JOIN DIS_MGM_PRG dmp ON dd.PRG_NO = dmp.PRG_NO WHERE dmp.START_DATE > '2023-03-01';

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ Filter rows: Search this table Sort by key: None ▾

Extra options

DON_NAME
MARK
JACK
ROSE
BOLE
LISA
JANE
SIRA
FRED
RON
DREK