

מיני פרויקט בבסיסי נתונים



**איחוד הצלה**

**UNITED HATZALAH**

**ארגון המתנדבים הלאומי**

מגישות:

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## תיאור הארגון:

'איחוד הצלה' הוא ארגון אשר יעניק לכל נזקק ללא הבדל דת גזע ומין בכל רחבי הארץ, טיפול רפואי ראשוני בתוך 90 שניות, בעזרת ציוד רפואי מתקדם, על-מנת להציל חיים ולמזער נזק בלתי הפיך, ויפעל לשפר מצב הרפואה הדחופה הטרם אשפוזית במדינת ישראל, וזאת הארגון מבצע על ידי איגוד הנתונים של כל המתנדבים.

המתנדבים עוסקים בשגרת יומם, ומשובצים במשמרות כדי להיות בכוננות ובמקרה ומתרחש בסביבתם הקרובה אירוע רפואי, הם מוזנקים לזירת האירוע או לבית החולה על ידי מוקד "איחוד הצלה" 1221 בזכות אופנועי אמבולנס מהירים וטכנולוגיה מבוססת GPS.

ישויות ראשיות:

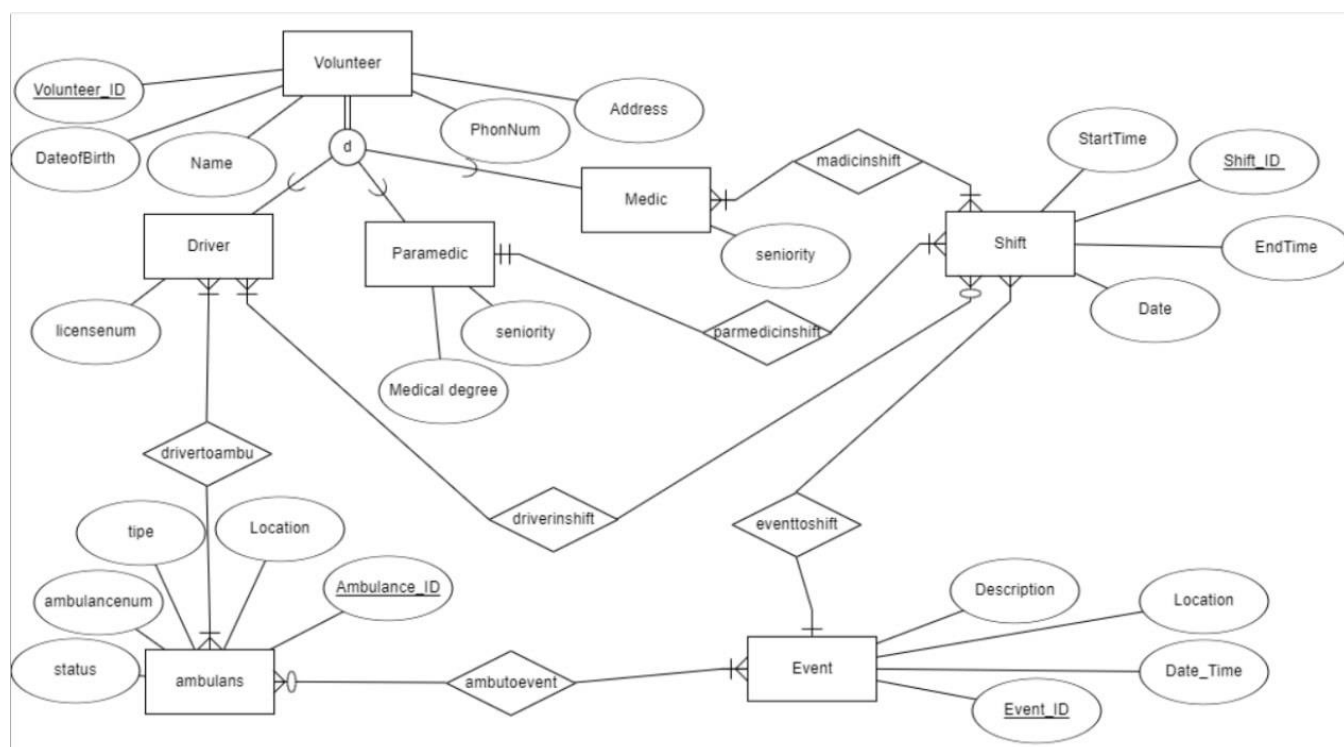
מתנדבים(נהג, חובש, פרמדיק), אירוע, משמרת ואמבולנס.

לכל משמרת משובצים מתנדבים בכוננות ומספר אמבולנסים.

לכל נהג מקושר אמבולנס.

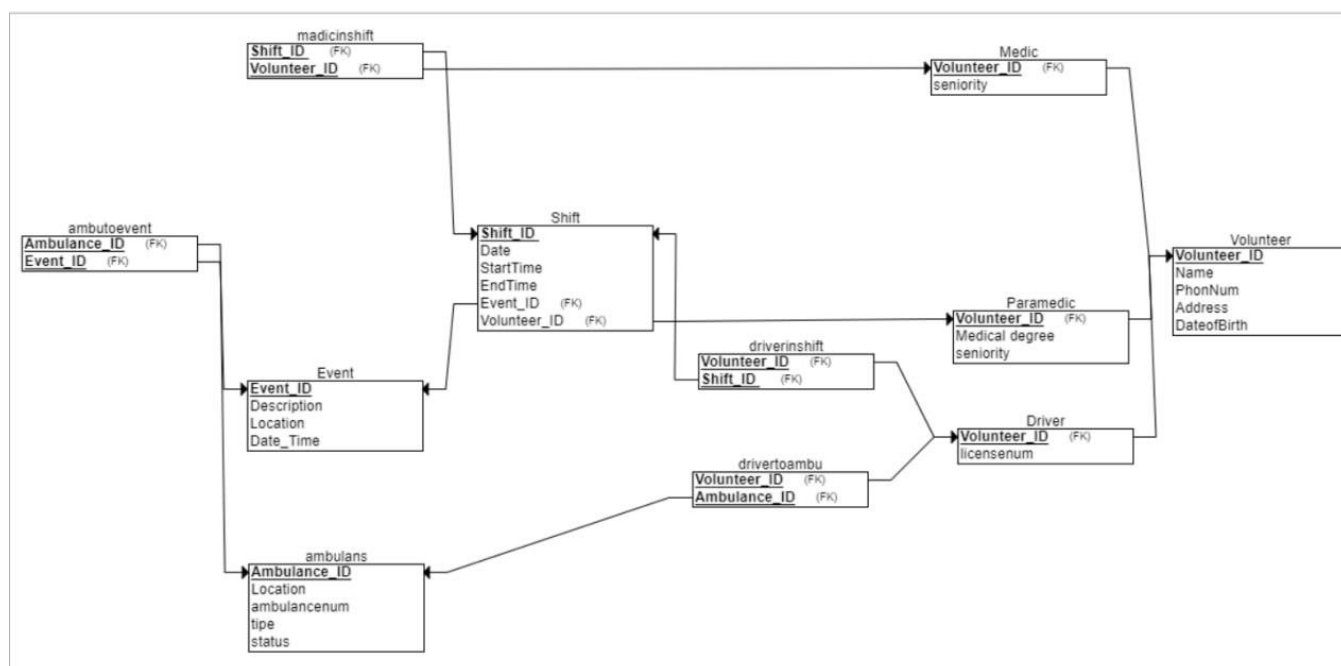
אירוע מקושר למשמרת שאליה מקושרים מתנדבים ואמבולנסים.

## תרשים ERD:

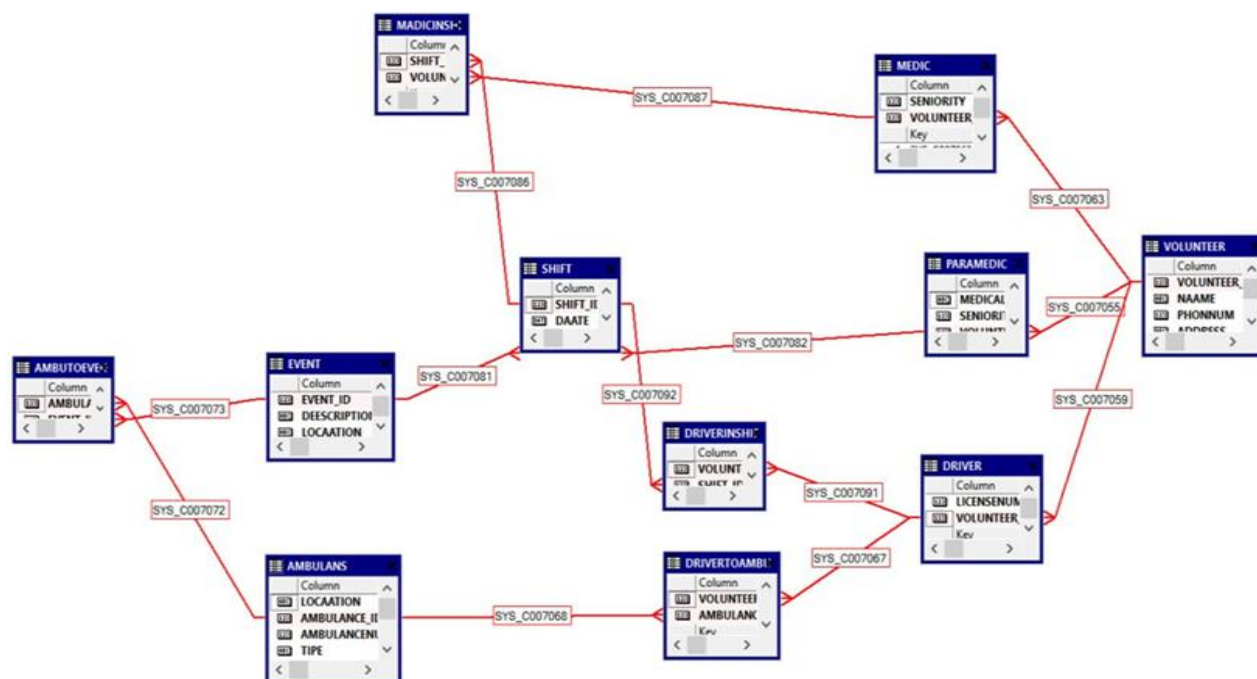




## תרשים DSD (ERD+):



## תרשים DSD (oracal):





## נרמול הסכימה:

כל הטבלאות עומדות בתנאים של NF, 2NF1 ו-NF3:

- לכל טבלה יש מפתח ראשי.

- אין תלות חלקית (כל התכונות שאינן מפתח תלויות באופן תפקודי לחלוטין במפתח הראשי).

- אין תלות טרנזיטיבית (אין תכונה שאינה מפתח תלויה בתכונה אחרת שאינה מפתח).

לפיכך, סכימת מסד הנתונים מנורמלת ל-NF3.





## תוכן קובץ ה-create:

```
CREATE TABLE ambulans
(
  Location VARCHAR(15) NOT NULL,
  Ambulance_ID INT NOT NULL,
  ambulancenum INT NOT NULL,
  tipe VARCHAR(10) NOT NULL,
  status VARCHAR(15) NOT NULL,
  PRIMARY KEY (Ambulance_ID)
);

CREATE TABLE Volunteer
(
  Volunteer_ID INT NOT NULL,
  Naame VARCHAR(20) NOT NULL,
  PhonNum INT NOT NULL,
  Address VARCHAR(40) NOT NULL,
  DateofBirth DATE NOT NULL,
  PRIMARY KEY (Volunteer_ID)
);

CREATE TABLE Event
(
  Event_ID INT NOT NULL,
  Deescription VARCHAR(40) NOT NULL,
  Locaation VARCHAR(25) NOT NULL,
  Date_Time DATE NOT NULL,
  PRIMARY KEY (Event_ID)
);

CREATE TABLE Paramedic
(
  Medical_degree VARCHAR(15) NOT NULL,
  seniority INT NOT NULL,
  Volunteer_ID INT NOT NULL,
  PRIMARY KEY (Volunteer_ID),
  FOREIGN KEY (Volunteer_ID) REFERENCES Volunteer (Volunteer_ID)
);
```





```
CREATE TABLE Driver
(
    licensenum INT NOT NULL,
    Volunteer_ID INT NOT NULL,
    PRIMARY KEY (Volunteer_ID),
    FOREIGN KEY (Volunteer_ID) REFERENCES Volunteer (Volunteer_ID)
);

CREATE TABLE Medic
(
    seniority INT NOT NULL,
    Volunteer_ID INT NOT NULL,
    PRIMARY KEY (Volunteer_ID),
    FOREIGN KEY (Volunteer_ID) REFERENCES Volunteer (Volunteer_ID)
);

CREATE TABLE drivertoambu
(
    Volunteer_ID INT NOT NULL,
    Ambulance_ID INT NOT NULL,
    PRIMARY KEY (Volunteer_ID, Ambulance_ID),
    FOREIGN KEY (Volunteer_ID) REFERENCES Driver (Volunteer_ID),
    FOREIGN KEY (Ambulance_ID) REFERENCES ambulans (Ambulance_ID)
);

CREATE TABLE ambutoevent
(
    Ambulance_ID INT NOT NULL,
    Event_ID INT NOT NULL,
    PRIMARY KEY (Ambulance_ID, Event_ID),
    FOREIGN KEY (Ambulance_ID) REFERENCES ambulans (Ambulance_ID),
    FOREIGN KEY (Event_ID) REFERENCES Event (Event_ID)
);
```



**איחוד  
הצלה**

רשת המתנדבים להצלת חיים

```
CREATE TABLE Shift
(
  Shift_ID_ INT NOT NULL,
  Daate DATE NOT NULL,
  StartTime VARCHAR(5) NOT NULL,
  EndTime VARCHAR(5) NOT NULL,
  Event_ID INT NOT NULL,
  Volunteer_ID INT NOT NULL,
  PRIMARY KEY (Shift_ID_),
  FOREIGN KEY (Event_ID) REFERENCES Event(Event_ID),
  FOREIGN KEY (Volunteer_ID) REFERENCES Paramedic(Volunteer_ID)
);

CREATE TABLE madicinshift
(
  Shift_ID_ INT NOT NULL,
  Volunteer_ID INT NOT NULL,
  PRIMARY KEY (Shift_ID_, Volunteer_ID),
  FOREIGN KEY (Shift_ID_) REFERENCES Shift(Shift_ID_),
  FOREIGN KEY (Volunteer_ID) REFERENCES Medic(Volunteer_ID)
);

CREATE TABLE driverinshift
(
  Volunteer_ID INT NOT NULL,
  Shift_ID_ INT NOT NULL,
  PRIMARY KEY (Volunteer_ID, Shift_ID_),
  FOREIGN KEY (Volunteer_ID) REFERENCES Driver(Volunteer_ID),
  FOREIGN KEY (Shift_ID_) REFERENCES Shift(Shift_ID_)
);
```

## תוכן קובץ ה- dropTable:

```
DROP TABLE madicinshift;  
DROP TABLE driverinshift;  
DROP TABLE drivertoambu;  
DROP TABLE ambutoevent;  
DROP TABLE Shift;  
DROP TABLE Paramedic;  
DROP TABLE Driver;  
DROP TABLE Medic;  
DROP TABLE Volunteer;  
DROP TABLE Event;  
DROP TABLE ambulans;
```



# תוכן קובץ ה-insertAll:

```
-- Inserting data into ambulans table
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Tel Aviv', 1, 101, 'TypeA', 'Available');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Jerusalem', 2, 102, 'TypeB', 'Unavailable');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Haifa', 3, 103, 'TypeC', 'Available');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Beersheba', 4, 104, 'TypeD', 'Unavailable');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Rishon LeZion', 5, 105, 'TypeA', 'Available');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Petah Tikva', 6, 106, 'TypeB', 'Unavailable');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Ashdod', 7, 107, 'TypeC', 'Available');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Netanya', 8, 108, 'TypeD', 'Unavailable');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Holon', 9, 109, 'TypeA', 'Available');
INSERT INTO ambulans (Locaation, Ambulance_ID, ambulancenum, tipe, status) VALUES ('Bnei Brak', 10, 110, 'TypeB', 'Unavailable');

-- Inserting data into Volunteer table
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (1, 'John Doe', 1234567890, '123 Herzl St, Tel Aviv', DATE '1980-01-01');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (2, 'Jane Smith', 2345678901, '456 Ben Yehuda St, Jerusalem', DATE '1985-02-02');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (3, 'Emily Jones', 3456789012, '789 Hanassi St, Haifa', DATE '1990-03-03');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (4, 'Michael Brown', 4567890123, '101 David Ben Gurion Blvd, Beersheba', DATE '1995-04-04');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (5, 'Sarah Davis', 5678901234, '202 Rothschild Blvd, Rishon LeZion', DATE '2000-05-05');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (6, 'David Wilson', 6789012345, '303 Jabotinsky St, Petah Tikva', DATE '1981-06-06');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (7, 'Laura Martinez', 7890123456, '404 Bialik St, Ashdod', DATE '1986-07-07');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (8, 'James Garcia', 8901234567, '505 Herzl St, Netanya', DATE '1991-08-08');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (9, 'Emma Anderson', 9012345678, '606 Weizmann St, Holon', DATE '1996-09-09');
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth) VALUES (10, 'Daniel Taylor', 1234567809, '707 Jabotinsky St, Bnei Brak', DATE '2001-10-10');

-- Inserting data into Event table
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (1, 'Birth', 'Tel Aviv', DATE '2024-01-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (2, 'Burn', 'Jerusalem', DATE '2024-02-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (3, 'Shooting Attack', 'Haifa', DATE '2024-03-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (4, 'Car Accident', 'Beersheba', DATE '2024-04-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (5, 'Heart Attack', 'Rishon LeZion', DATE '2024-05-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (6, 'Stroke', 'Petah Tikva', DATE '2024-06-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (7, 'Drowning', 'Ashdod', DATE '2024-07-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (8, 'Electrocution', 'Netanya', DATE '2024-08-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (9, 'Fall Injury', 'Holon', DATE '2024-09-01');
INSERT INTO Event (Event_ID, Deescription, Locaation, Date_Time) VALUES (10, 'Poisoning', 'Bnei Brak', DATE '2024-10-01');

-- Inserting data into Paramedic table
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Hebrew University', 5, 1);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Tel Aviv University', 4, 2);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Technion', 3, 3);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Ben-Gurion University', 2, 4);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Bar-Ilan University', 1, 5);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Weizmann Institute', 6, 6);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Haifa University', 7, 7);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Ariel University', 8, 8);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('IDC Herzliya', 9, 9);
INSERT INTO Paramedic (Medical_degree, seniority, Volunteer_ID) VALUES ('Open University', 10, 10);

-- Inserting data into Driver table
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (11111, 1);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (22222, 2);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (33333, 3);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (44444, 4);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (55555, 5);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (66666, 6);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (77777, 7);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (88888, 8);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (99999, 9);
INSERT INTO Driver (licensenum, Volunteer_ID) VALUES (101010, 10);
```





```
-- Inserting data into Medic table
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (5, 1);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (4, 2);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (3, 3);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (2, 4);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (1, 5);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (6, 6);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (7, 7);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (8, 8);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (9, 9);
INSERT INTO Medic (seniority, Volunteer_ID) VALUES (10, 10);

-- Inserting data into drivertoambu table
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (1, 1);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (2, 2);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (3, 3);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (4, 4);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (5, 5);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (6, 6);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (7, 7);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (8, 8);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (9, 9);
INSERT INTO drivertoambu (Volunteer_ID, Ambulance_ID) VALUES (10, 10);

-- Inserting data into ambutoevent table
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (1, 1);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (2, 2);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (3, 3);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (4, 4);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (5, 5);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (6, 6);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (7, 7);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (8, 8);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (9, 9);
INSERT INTO ambutoevent (Ambulance_ID, Event_ID) VALUES (10, 10);

-- Inserting data into Shift table
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (1, DATE '2024-01-01', '08:00', '16:00', 1, 1);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (2, DATE '2024-02-01', '08:00', '16:00', 2, 2);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (3, DATE '2024-03-01', '08:00', '16:00', 3, 3);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (4, DATE '2024-04-01', '08:00', '16:00', 4, 4);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (5, DATE '2024-05-01', '08:00', '16:00', 5, 5);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (6, DATE '2024-06-01', '08:00', '16:00', 6, 6);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (7, DATE '2024-07-01', '08:00', '16:00', 7, 7);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (8, DATE '2024-08-01', '08:00', '16:00', 8, 8);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (9, DATE '2024-09-01', '08:00', '16:00', 9, 9);
INSERT INTO Shift (Shift_ID, Daate, StartTime, EndTime, Event_ID, Volunteer_ID) VALUES (10, DATE '2024-10-01', '08:00', '16:00', 10, 10);

-- Inserting data into madicinshift table
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (1, 1);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (2, 2);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (3, 3);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (4, 4);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (5, 5);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (6, 6);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (7, 7);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (8, 8);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (9, 9);
INSERT INTO madicinshift (Shift_ID, Volunteer_ID) VALUES (10, 10);

-- Inserting data into driverinshift table
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (1, 1);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (2, 2);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (3, 3);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (4, 4);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (5, 5);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (6, 6);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (7, 7);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (8, 8);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (9, 9);
INSERT INTO driverinshift (Volunteer_ID, Shift_ID) VALUES (10, 10);
```



## תוכן קובץ ה-selectAll:

```
'  
SELECT * FROM ambulans;  
  
SELECT * FROM Volunteer;  
  
SELECT * FROM Event;  
  
SELECT * FROM Paramedic;  
  
SELECT * FROM Driver;  
  
SELECT * FROM Medic;  
  
SELECT * FROM drivertoambu;  
  
SELECT * FROM ambutoevent;  
  
SELECT * FROM Shift;  
  
SELECT * FROM madicinshift;  
  
SELECT * FROM driverinshift;
```

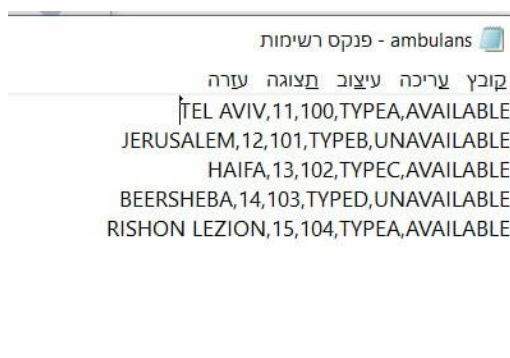


# אכלוס הטבלאות:

## TEXT IMPORTER.1

## AMBULANS TABLE

הקובץ עצמו:



In the data from text file:

Data from Textfile   Data to Oracle

**General**

Owner: [ ] Table: AMBULANS ☐ Clear Table

Commit every...: 0 ☐ Overwrite duplicates ☒ Ignore duplicates

Initializing Script: [ ]

Finalizing Script: [ ]

**Fields**

Field1 -> LOCAATION (VARCHAR2)  
 Field2 -> AMBULANCE\_ID (NUMBER)  
 Field3 -> AMBULANCENUM (NUMBER)  
 Field4 -> TIPE (VARCHAR2)  
 Field5 -> STATUS (VARCHAR2)

**Result Preview**

1	2	3	4	5
TEL AVIV	11	100	TYPEA	AVAILABLE
JERUSALEM	12	101	TYPEB	UNAVAILABLE
HAIFA	13	102	TYPEC	AVAILABLE
BEERSHEBA	14	103	TYPED	UNAVAILABLE
RISHON LEZION	15	104	TYPEA	AVAILABLE





In the data to Oracle file:

Data from Textfile

Data to Oracle

File Data

TEL AVIV,11,100,TYPEA,AVAILABLE  
JERUSALEM,12,101,TYPEB,UNAVAILABLE  
HAIFA,13,102,TYPEC,AVAILABLE  
BEERSHEBA,14,103,TYPED,UNAVAILABLE  
RISHON LEZION,15,104,TYPEA,AVAILABLE

Configuration

General

Fieldcount

5

☒ End at line-end  
☐ Name in header  
☒ Skip empty lines

Quote character

"

Comment line

Import lines

1 ..

Field1 (+0 .. ",")

Field2 (+0 .. ",")

Field3 (+0 .. ",")

Field4 (+0 .. ",")

Field5 (+0 .. ",")

Field Start

☐ Relative position
☐ Absolute position
☐ Character

Field End

☐ Length
☐ Character

Filter

Result Preview

1	2	3	4	5
TEL AVIV	11	100	TYPEA	AVAILABLE
JERUSALEM	12	101	TYPEB	UNAVAILABLE
HAIFA	13	102	TYPEC	AVAILABLE
BEERSHEBA	14	103	TYPED	UNAVAILABLE
RISHON LEZION	15	104	TYPEA	AVAILABLE

לאחר ההכנסה:

The screenshot shows the SQL editor with the query `select* from ambulans`. Below the editor, the table view displays the results of the query. The table has six columns: an index, LOCAATION, AMBULANCE\_ID, AMBULANCENUM, TYPE, and STATUS. The data is as follows:

	LOCAATION	AMBULANCE_ID	AMBULANCENUM	TYPE	STATUS
1	TEL AVIV	11	100	TYPEA	AVAILABLE
2	JERUSALEM	12	101	TYPEB	UNAVAILABLE
3	HAIFA	13	102	TYPEC	AVAILABLE
4	BEERSHEBA	14	103	TYPED	UNAVAILABLE
5	RISHON LEZION	15	104	TYPEA	AVAILABLE



## Data Generation.2

### SHIFT TABLE

SHIFT				
<	Owner	Table	Number of records	
>	SYS	SHIFT	10..20	
...				
Name	Type	Size	Data	
SHIFT_ID_	NUMBER		[111111]	
DAATE	DATE		Random(2009, 2023)	
STARTTIME	VARCHAR2	5	Random(8, 16):Random(0, 59)	
ENDTIME	VARCHAR2	5	Random(8, 16):Random(0, 59)	
EVENT_ID	NUMBER		[111]	
VOLUNTEER_ID	NUMBER		[11111]	
*				

SHIFT					
SHIFT_ID_	DAATE	STARTTIME	ENDTIME	EVENT_ID	VOLUNTEER_ID
958786	30-12-1899	9:5	15:47	645	66694
197259	30-12-1899	10:35	16:40	478	28758
652247	30-12-1899	9:45	15:33	631	25476
196112	30-12-1899	12:12	15:55	346	77452
926114	30-12-1899	10:14	12:43	825	96194
253425	30-12-1899	16:18	14:38	883	75311
822731	30-12-1899	12:46	14:34	454	47156
938154	30-12-1899	14:22	14:54	615	52416
447876	30-12-1899	8:32	13:54	699	83453
863545	30-12-1899	14:0	11:11	328	59523
613596	30-12-1899	10:55	14:2	584	65365
183319	30-12-1899	14:32	16:25	349	64754
758853	30-12-1899	13:8	9:54	571	61251
261218	30-12-1899	9:13	8:16	295	68978
391184	30-12-1899	12:55	9:39	369	71833
435666	30-12-1899	9:39	16:18	858	37111
418225	30-12-1899	14:7	12:38	674	55816
264495	30-12-1899	14:4	11:45	629	16951
288329	30-12-1899	8:33	11:58	469	88364
183784	30-12-1899	15:22	13:8	369	76967

```

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (413843, 30-12-1899, '11:18', '14:54', 448, 83413);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (375616, 30-12-1899, '14:1', '16:51', 681, 83783);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (268245, 30-12-1899, '8:48', '15:34', 925, 75114);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (934812, 30-12-1899, '8:21', '13:15', 349, 43255);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (762197, 30-12-1899, '14:12', '15:25', 642, 38813);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (157914, 30-12-1899, '9:59', '10:45', 575, 72855);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (421436, 30-12-1899, '8:24', '10:9', 634, 92148);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (126786, 30-12-1899, '13:7', '15:5', 548, 71327);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (815828, 30-12-1899, '15:45', '13:52', 494, 16429);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (273773, 30-12-1899, '13:13', '15:48', 282, 71858);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (176299, 30-12-1899, '9:28', '11:33', 585, 21251);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (492631, 30-12-1899, '13:23', '15:49', 336, 21317);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (119314, 30-12-1899, '14:19', '11:23', 439, 37845);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (535288, 30-12-1899, '12:21', '15:3', 721, 96545);

insert into SYS.SHIFT (SHIFT_ID_, DAATE, STARTTIME, ENDTIME, EVENT_ID, VOLUNTEER_ID)
values (849494, 30-12-1899, '8:57', '16:25', 676, 31719);

```





## VOLUNTEER TABLE

VOLUNTEER				
Owner		Table		Number of records
SYS		VOLUNTEER		10..20
Name	Type	Size	Data	
VOLUNTEER_ID	NUMBER		[11111]	
NAAME	VARCHAR2	20	FirstName + LastName	
PHONNUM	NUMBER		[1111111111]	
ADDRESS	VARCHAR2	40	Address1	
DATEOFBIRTH	DATE		Random(1, 29)	
*				

VOLUNTEER				
VOLUNTEER_ID	NAAME	PHONNUM	ADDRESS	DATEOFBIRTH
92847	KatieNicholas	5922925458	97 Ljubljana Ave	01-11-2720 21:12:57
51687	HazelDillane	8378312826	69 Grier Road	06-11-2163 04:30:51
48295	LenaRosas	4141151297	744 Sparrows Point Drive	10-06-2317 23:34:04
68182	KazemHatfield	1841122125	543 McLachlan Ave	13-09-2234 15:17:08
77478	GeoffBlack	2361927711	55 Griggs Ave	15-02-2442 14:05:51
37348	RhysNorton	1858117785	94 Wetzlar Street	11-01-2638 03:52:50
19874	ParkerQuinn	8616824132	31 Faye Street	02-09-2416 12:38:26
96622	AndrewGyllenhaal	6982646639	86 Molly Road	19-02-2023 22:35:11
16822	HollyNugent	9767563449	77 Isabella Drive	26-02-2009 07:33:18
72852	Benjaminurban	7846294898	70 Tomei Street	23-04-2158 04:23:39
64191	HectorBrandt	7966486759	11st Street	05-11-2899 09:14:49
63127	MintBerenger	6488627826	62 Warren	29-04-2379 05:51:38
43989	AnitaPacino	1154348919	33rd Street	17-02-2553 14:43:00
29732	JoaquinLoggins	3711664437	28 Berkley Street	02-06-1923 09:18:00
84855	FreddieCarmen	8511354694	6 Dempsey Street	19-08-3044 06:07:29
99684	DerrickCarter	5589737277	34 Mexico City Road	21-04-2363 13:09:50
76713	CarolynMcCormack	3375621499	95 Dunn Ioring Drive	28-07-3012 18:18:17
98766	HugoKirkwood	4788235375	10 Kretschmann Street	11-07-2236 03:55:09

```
insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (57578, 'AustinPolito', 8539322573, '34 Hubbard Street', to_date('22-11-2464 22:23:48', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (81677, 'BetteNavarro', 5614128897, '80 Badaluoco Street', to_date('07-12-2646 23:42:08', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (92458, 'ZooneySpacey', 4624885382, '100 English Ave', to_date('16-01-2788 18:41:02', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (74429, 'RoyPhillippe', 7857971425, '31 Payton Drive', to_date('17-05-2241 17:49:46', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (94719, 'LynnLynch', 6334381628, '29 Courtney Ave', to_date('20-01-2955 12:09:47', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (48768, 'NightAiken', 6373895478, '92nd Street', to_date('22-04-1929 05:06:25', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (56867, 'TomCarlyle', 3954698984, '53 Caviezel Street', to_date('20-01-2489 20:43:09', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (74578, 'DaryleCotton', 4562645295, '51 Cuba Road', to_date('26-10-2217 06:05:54', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (33111, 'EdwardZappacosta', 5198946821, '33 Nicholas Drive', to_date('14-07-2332 09:27:56', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (48578, 'JefferyRedgrave', 3265762772, '17 Shawn Road', to_date('25-03-2895 18:01:09', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (56764, 'VictorCurtis', 2617924567, '36 Valentin', to_date('27-10-2904 12:15:59', 'dd-mm-yyyy hh24:mi:ss'));

insert into SYS.VOLUNTEER (VOLUNTEER_ID, NAAME, PHONNUM, ADDRESS, DATEOFBIRTH)
values (78825, 'LaurenMcClinton', 2249817589, '25 Gaines Road', to_date('27-05-2344 05:10:01', 'dd-mm-yyyy hh24:mi:ss'));

commit;
```



## EVENT TABLE

EVENT			
Owner	Table	Number of records	
SYS	EVENT	10..20	
Name	Type	Size	Data
EVENT_ID	NUMBER		[1111]
DEESCRPTION	VARCHAR2	40	List('birth', 'Shooting Attack', 'Burn', 'Car Accident', 'Heart Attack')
LOCAATION	VARCHAR2	25	List('Hifa', 'Lod', 'Tverya', 'Ashdod')
DATE_TIME	DATE		Random(2020, 2024)
*			

EVENT			
EVENT_ID	DEESCRPTION	LOCAATION	DATE_TIME
4424	Heart Attack	Ashdod	30-12-1899
5659	Shooting Attack	Hifa	30-12-1899
7363	Burn	Ashdod	30-12-1899
6715	Shooting Attack	Lod	30-12-1899
8486	Car Accident	Ashdod	30-12-1899
4156	Car Accident	Hifa	30-12-1899
5479	Burn	Lod	30-12-1899
1868	Car Accident	Lod	30-12-1899
5349	Shooting Attack	Hifa	30-12-1899
9335	Burn	Ashdod	30-12-1899
9394	Heart Attack	Ashdod	30-12-1899
7833	Burn	Hifa	30-12-1899
4932	birth	Lod	30-12-1899
9184	Shooting Attack	Lod	30-12-1899
5671	birth	Lod	30-12-1899
3128	Heart Attack	Tverya	30-12-1899
7671	Heart Attack	Hifa	30-12-1899
6565	birth	Ashdod	30-12-1899

```
insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (7436, 'Shooting Attack', 'Ashdod', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (8697, 'birth', 'Hifa', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (4284, 'Car Accident', 'Lod', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (6135, 'Heart Attack', 'Hifa', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (2877, 'Burn', 'Tverya', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (4545, 'Heart Attack', 'Tverya', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (2843, 'Shooting Attack', 'Lod', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (9623, 'Heart Attack', 'Tverya', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (6493, 'Car Accident', 'Lod', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (3119, 'Heart Attack', 'Lod', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (2288, 'Shooting Attack', 'Tverya', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (3771, 'Car Accident', 'Tverya', 30-12-1899);

insert into SYS.EVENT (EVENT_ID, DEESCRPTION, LOCAATION, DATE_TIME)
values (4383, 'birth', 'Tverya', 30-12-1899);

commit;
```





## PARAMEDIC TABLE

PARAMEDIC			
Owner	Table	Number of records	
SYS	PARAMEDIC	10..20	
Name	Type	Size	Data
MEDICAL_DEGREE	VARCHAR2	25	List('Technion','Ben-Gurion University','Hebrew University')
SENIORITY	NUMBER		[1]
VOLUNTEER_ID	NUMBER		List(select Volunteer_ID from Volunteer)
*			

MEDICAL_DEGREE	SENIORITY	VOLUNTEER_ID
Hebrew University	9	16658
Hebrew University	2	1206
Hebrew University	6	1406
Ben-Gurion University	3	85161
Ben-Gurion University	8	53971
Technion	6	1229
Technion	3	74188
Hebrew University	2	45571
Ben-Gurion University	9	1328
Technion	4	38371
Hebrew University	9	1206
Technion	8	1453

```
insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Hebrew University', 8, 61541);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Hebrew University', 5, 1220);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Ben-Gurion University', 1, 72533);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Technion', 9, 1284);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Ben-Gurion University', 1, 1331);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Ben-Gurion University', 5, 36542);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Hebrew University', 2, 1210);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Technion', 4, 1215);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Technion', 8, 1324);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Ben-Gurion University', 6, 1131);

insert into SYS.PARAMEDIC (MEDICAL_DEGREE, SENIORITY, VOLUNTEER_ID)
values ('Technion', 3, 78663);

commit;
```

## MEDIC TABLE

MEDIC				
Owner	Table		Number of records	
SYS	MEDIC		10..20	
Name	Type	Size	Data	
SENIORITY	NUMBER		[1]	
VOLUNTEER_ID	NUMBER		List(select Volunteer_ID from Volunteer)	
*				

MEDIC		
	SENIORITY	VOLUNTEER_ID
▶	4	1232
	2	1208
	8	75876
	3	1182
	3	1143
	8	1463
	9	17582
	1	1500
	2	71295
	4	1279
	1	1458
	6	1224

```

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (5, 47129);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (5, 1115);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (2, 1488);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (7, 54522);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (5, 1370);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (3, 1274);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (6, 1304);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (7, 1384);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (6, 61541);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (2, 1350);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (3, 1197);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (5, 69391);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (8, 1244);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (9, 1216);

insert into SYS.MEDIC (SENIORITY, VOLUNTEER_ID)
values (6, 1226);

commit;

```



# Mockaroo.3

## DRIVER TABLE

mockaroo

SCHEMASDATASETSMOCK APISSCENARIOSPROJECTSFUNCTIONS

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Field Name	Type	Options
Volunteer_ID	Sequence	start at: 1111 step: 1 repeat: 1 restart at: blank: 0%
LICENSENUM	Sequence	start at: 111 step: 1 repeat: 1 restart at: blank: 0%

+ ADD ANOTHER FIELD

GENERATE FIELDS USING AI...

# Rows: 400

Format: SQL

Table Name: DRIVER

Include CREATE TABLE

Preview

```
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1111, 111);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1112, 112);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1113, 113);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1114, 114);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1115, 115);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1116, 116);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1117, 117);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1118, 118);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1119, 119);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1120, 120);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1121, 121);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1122, 122);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1123, 123);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1124, 124);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1125, 125);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1126, 126);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1127, 127);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1128, 128);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1129, 129);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1130, 130);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1131, 131);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1132, 132);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1133, 133);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1134, 134);
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1135, 135);
```

showing first 100 rows

SQL	Output	Statistics
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1111, 111);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1112, 112);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1113, 113);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1114, 114);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1115, 115);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1116, 116);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1117, 117);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1118, 118);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1119, 119);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1120, 120);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1121, 121);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1122, 122);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1123, 123);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1124, 124);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1125, 125);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1126, 126);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1127, 127);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1128, 128);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1129, 129);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1130, 130);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1131, 131);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1132, 132);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1133, 133);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1134, 134);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1135, 135);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1136, 136);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1137, 137);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1138, 138);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1139, 139);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1140, 140);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1141, 141);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1142, 142);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1143, 143);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1144, 144);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1145, 145);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1146, 146);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1147, 147);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1148, 148);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1149, 149);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1150, 150);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1151, 151);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1152, 152);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1153, 153);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1154, 154);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1155, 155);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1156, 156);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1157, 157);		
insert into DRIVER (Volunteer_ID, LICENSENUM) values (1158, 158);		



Name	Type	Compiled
ACCESS\$	TABLE	27/08/2011 08:20:49
ALERT_QT	TABLE	27/08/2011 08:31:59
AMBULANS	TABLE	28/05/2024 22:42:40
AMBUTOEVENT	TABLE	28/05/2024 22:42:40
APPLYS_CHANGE_HANDLERS	TABLE	27/08/2011 08:20:56
APPLYS_CONF_HDLR_COLUMNS	TABLE	27/08/2011 08:20:56
APPLYS_CONSTRAINT_COLUMNS	TABLE	27/08/2011 08:20:56
APPLYS_DEST_OBJ	TABLE	27/08/2011 08:20:56
APPLYS_DEST_OBJ_CMAP	TABLE	27/08/2011 08:20:56
APPLYS_DEST_OBJ_OPS	TABLE	27/08/2011 08:20:56
APPLYS_ERROR	TABLE	27/08/2011 08:26:30
APPLYS_ERROR_HANDLER	TABLE	27/08/2011 08:20:56
APPLYS_ERROR_TXN	TABLE	27/08/2011 08:26:29
APPLYS_SOURCE_OBJ	TABLE	27/08/2011 08:20:56
APPLYS_SOURCE_SCHEMA	TABLE	27/08/2011 08:20:56
APPLYS_VIRTUAL_OBJ_CONS	TABLE	27/08/2011 08:20:56
APPROLES	TABLE	27/08/2011 08:20:53
AQS_ALERT_QT_G	TABLE	27/08/2011 08:31:59
AQS_ALERT_QT_H	TABLE	27/08/2011 08:31:59
AQS_ALERT_QT_I	TABLE	27/08/2011 08:31:59
AQS_ALERT_QT_L	TABLE	27/08/2011 08:31:59
AQS_ALERT_QT_S	TABLE	27/08/2011 08:31:59
AQS_ALERT_QT_T	TABLE	27/08/2011 08:31:59
AQS_AQS_MEM_MC_G	TABLE	27/08/2011 08:32:24
AQS_AQS_MEM_MC_H	TABLE	27/08/2011 08:32:24
AQS_AQS_MEM_MC_I	TABLE	27/08/2011 08:32:24
AQS_AQS_MEM_MC_L	TABLE	27/08/2011 08:32:24
AQS_AQS_MEM_MC_S	TABLE	27/08/2011 08:32:24
AQS_AQS_MEM_MC_T	TABLE	27/08/2011 08:32:24
AQS_AQ_PROP_TABLE_G	TABLE	27/08/2011 08:32:27
AQS_AQ_PROP_TABLE_H	TABLE	27/08/2011 08:32:27
AQS_AQ_PROP_TABLE_I	TABLE	27/08/2011 08:32:27
AQS_AQ_PROP_TABLE_L	TABLE	27/08/2011 08:32:27

Oracle Export

SQL Inserts

PL/SQL Developer

☒ Compress
 ☐ Consistent
 ☒ Constraints
 ☐ Direct
 ☒ Grants
 ☒ Indexes
 ☒ Rows
 ☒ Triggers
 ☐ Zip

Buffer size (KB)  
 4

Where clause  
 \_\_\_\_\_

Export Executable  
 C:\oracle\app\oracle\product\11.2.0\server\bin\exp.exe



Oracle Export	SQL Inserts	PL/SQL Developer	Log
Export started on 29/05/2024 17:51:04			
Exporting table AMBULANS...			
200 records exported			
Exporting table EVENT...			
16 records exported			

Oracle Import	SQL Inserts	PL/SQL Developer	Log
Import started on 29/05/2024 18:14:20			
C:\oracle\app\oracle\product\11.2.0\server\bin\imp.exe log=C:\Users\34E6~1\AppData\Local\Temp\plsimp.log file=C:\BSISIN~1\BACKUP.sql userid="sys/chani			
Import finished on 29/05/2024 18:14:21			



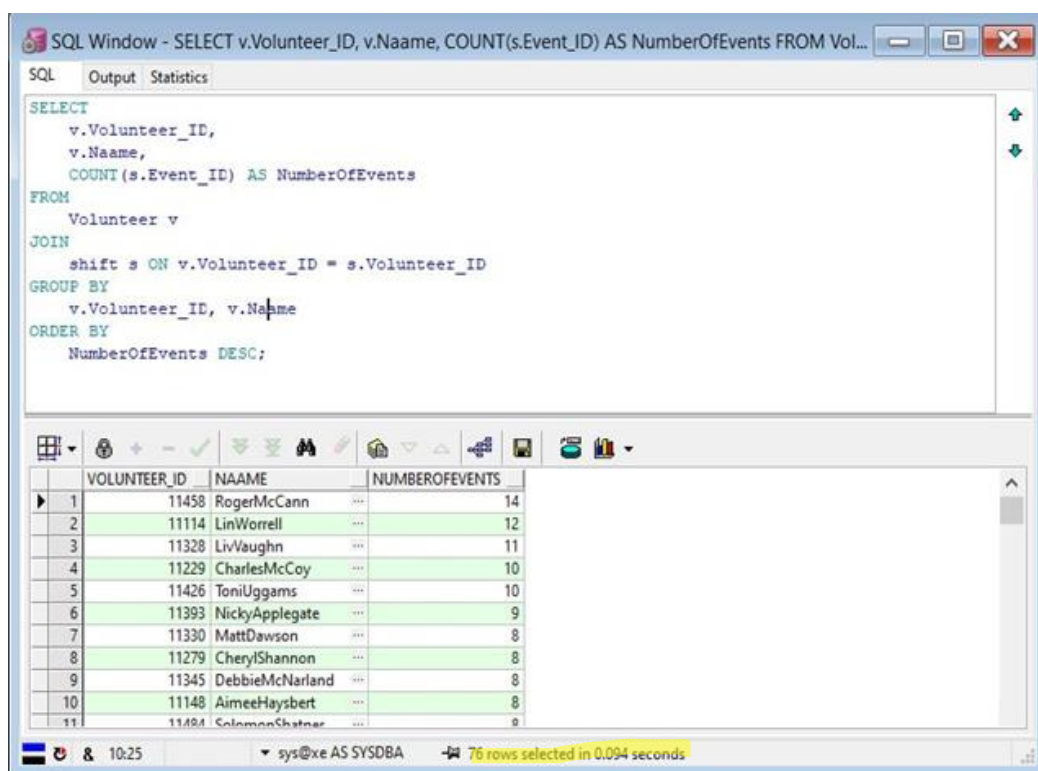
## שאלות:

### select

1. הסבר מילולי: השאלתה מספקת רשימת מתנדבים עם תעודות זהות ושמותיהם, יחד עם ספירת האירועים בהם השתתפו. התוצאות מקובצות לפי מתנדבים וממוינות בסדר יורד לפי מספר האירועים, כך שהמתנדבים הפעילים ביותר מופיעים בראש הרשימה.

שאלתה זו מספקת לארגון מי הם המתנדבים שתורמים רבות לארגון.

```
SELECT
v.Volunteer_ID,
v.Name
COUNT(s.Event_ID) AS NumberOfEvents
FROM
    Volunteer v
JOIN
    shift s ON v.Volunteer_ID = s.Volunteer_ID
GROUP BY
    v.Volunteer_ID, v.Name
ORDER BY
    NumberOfEvents DESC
```



SQL Window - SELECT v.Volunteer\_ID, v.Name, COUNT(s.Event\_ID) AS NumberOfEvents FROM Vol...

SQL Output Statistics

```
SELECT
v.Volunteer_ID,
v.Name,
COUNT(s.Event_ID) AS NumberOfEvents
FROM
    Volunteer v
JOIN
    shift s ON v.Volunteer_ID = s.Volunteer_ID
GROUP BY
    v.Volunteer_ID, v.Name
ORDER BY
    NumberOfEvents DESC;
```

	VOLUNTEER_ID	NAAME	NUMBEROFEVENTS
1	11458	RogerMcCann	14
2	11114	LinWorrell	12
3	11328	LivVaughn	11
4	11229	CharlesMcCoy	10
5	11426	ToniUggams	10
6	11393	NickyApplegate	9
7	11330	MattDawson	8
8	11279	CherylShannon	8
9	11345	DebbieMcNairland	8
10	11148	AimeeHaysbert	8
11	11494	SolomonShatner	9

sys@xe AS SYSDBA 76 rows selected in 0.094 seconds



**2. הסבר מילולי:** שאילתה זו מספקת את רשימת האירועים עם מספר האמבולנסים שהשתתפו בכל אחד מהם, ממוינים באופן כרונולוגי לפי תאריכים. זה שימושי להנהלת איחוד הצלה למעקב אחר השתתפות באירועים והקצאת משאבים.

```
SELECT
    e.Event_ID,
    e.Deescription,
    e.Locaation,
    e.Date_Time,
    COUNT(ae.Ambulance_ID) AS NumberOfAmbulances
FROM
    Event e
LEFT JOIN
    ambutoevent ae ON e.Event_ID = ae.Event_ID
GROUP BY
    , e.Event_ID
    , e.Deescription
    e.Locaation,
    , e.Date_Time
ORDER BY
    ; e.Date_Time
```

SQL Output Statistics						
<pre>e.Deescription, e.Locaation, e.Date_Time, COUNT(ae.Ambulance_ID) AS NumberOfAmbulances FROM Event e LEFT JOIN ambutoevent ae ON e.Event_ID = ae.Event_ID GROUP BY e.Event_ID, e.Deescription, e.Locaation, e.Date_Time ORDER BY e.Date_Time;</pre>						
	EVENT_ID	DESCRIPTION	LOCAATION	DATE_TIME	NUMBEROFAMBULANCES	
1	11121	Shooting Attack	Blacksburg	03/01/2020	1	
2	11311	Burn	Vantaa	07/01/2020	1	
3	11339	Poisoning	Smyrna	08/01/2020	1	
4	11142	Burn	Algermissen	15/01/2020	0	
5	11299	Shooting Attack	Chirignago	18/01/2020	0	
6	11192	Fall Injury	Newton-le-willows	19/01/2020	0	
7	11447	Car Accident	Rockland	21/01/2020	1	
8	11350	Fall Injury	Kevelaer	22/01/2020	1	
9	11298	Car Accident	Cape town	27/01/2020	1	
10	11421	Fall Injury	Mablethorpe	04/02/2020	0	
11	11140	Shooting Attack	Cherepovets	06/02/2020	0	
12	11420	Birth	Roma	13/02/2020	0	
13	11425	Shooting Attack	Goslar	13/02/2020	0	
14	11402	Poisoning	Santa Clarat	15/02/2020	0	
15	11448	Burn	Pointe-claire	29/02/2020	0	
16	11417	Car Accident	Royersford	29/02/2020	0	
17	11287	Car Accident	Zwolle	03/03/2020	0	
18	11486	Fall Injury	Frederiksberg	06/03/2020	0	
19	11383	Burn	Kyunnam	07/03/2020	0	
20	11326	Burn	Erlangen	09/03/2020	1	
21	11166	Poisoning	Daejeon	11/03/2020	0	
22	11274	Shooting Attack	Daejeon	17/03/2020	0	
23	11491	Burn	Gliwice	18/03/2020	0	
24	11147	Shooting Attack	League city	25/03/2020	1	
25	11314	Birth	Butner	26/03/2020	0	
26	11114	Birth	West Point	31/03/2020	2	
27	11117	Birth	Allen	06/04/2020	1	
28	11310	Birth	Lisboa	06/04/2020	0	
29	11139	Burn	Schenectady	11/04/2020	0	





**3. הסבר מילולי:** ארגון איחוד הצלה מעוניין להעניק מלגה לחובשים מצטיינים לצורך כך כתבנו את השאילתה הבאה המחזירה את הפרטים של החובשים המצטיינים מארגון איחוד הצלה בעלי ניסיון של יותר משנתיים והשתתפו בעשרה אירועים לפחות. הפלט כולל את תעודת המתנדב, שם, שנות ניסיון ומספר האירועים בהם השתתף.

```
SELECT
    v.Volunteer_ID,
    v.Naame,
    m.seniority,
    COUNT(DISTINCT ms.Shift_ID_) AS NumberOfEvents
FROM
    Medic m
JOIN
    Volunteer v ON m.Volunteer_ID = v.Volunteer_ID
JOIN
    madicinshift ms ON m.Volunteer_ID = ms.Volunteer_ID
JOIN
    shift s ON ms.Shift_ID_ = s.Shift_ID_
WHERE
    m.seniority > 2
GROUP BY
    v.Volunteer_ID, v.Naame, m.seniority
HAVING
    COUNT(DISTINCT ms.Shift_ID_) >= 10
ORDER BY
    NumberOfEvents DESC;
```

The screenshot shows a SQL query execution window with the following query and results:

```
SELECT
    v.Volunteer_ID,
    v.Naame,
    m.seniority,
    COUNT(DISTINCT ms.Shift_ID_) AS NumberOfEvents
FROM
    Medic m
JOIN
    Volunteer v ON m.Volunteer_ID = v.Volunteer_ID
JOIN
    madicinshift ms ON m.Volunteer_ID = ms.Volunteer_ID
JOIN
    shift s ON ms.Shift_ID_ = s.Shift_ID_
WHERE
    m.seniority > 2
GROUP BY
    v.Volunteer_ID, v.Naame, m.seniority
HAVING
    COUNT(DISTINCT ms.Shift_ID_) >= 10
ORDER BY
    NumberOfEvents DESC;
```

	VOLUNTEER_ID	NAAME	SENIORITY	NUMBEROFEVENTS
1	11410	NicoleCurtis-Hall	8	14
2	11169	LaurieNeill	6	11
3	11234	WesRamis	4	11
4	11313	EwanMcCabe	6	10
5	11221	DeniseRankin	8	10
6	11377	HeathQuaid	3	10
7	11455	LiamBrosnan	7	10

7 rows selected in 0.063 seconds



4. הסבר מילולי: שאילתה זו מספקת להנהלת איחוד הצלה סקירה כללית של התפלגות אירועים הקשורים ללידה על פני מקומות שונים, ומאפשרת להם לזהות אזורים עם שכיחות גבוהה יותר של אירועים כאלה ולהקצות משאבים בהתאם. כלומר בשאילתה זו נקבל רשימה של מקומות וכמה אירועי לידה התרחשו בהם.

```
SELECT
    e.Locaation,
    COUNT(e.Event_ID) AS NumberOfBirthEvents
FROM
    Event e
WHERE
    e.Deescription = 'birth'
GROUP BY
    e.Locaation
ORDER BY
    NumberOfBirthEvents DESC;
```

SQL		Output	Statistics
<pre>SELECT     e.Locaation,     COUNT(e.Event_ID) AS NumberOfBirthEvents FROM     Event e WHERE     e.Deescription = 'Birth' GROUP BY     e.Locaation ORDER BY     NumberOfBirthEvents DESC;</pre>			
	LOCAATION	NUMBEROFBIRTHEVENTS	
1	Hifa	14	
2	Araras	2	
3	Tampa	2	
4	Derwood	2	
5	West Point	1	
6	Dubai	1	
7	Winterthur	1	
8	Milton	1	
9	Cobham	1	
10	Sevilla	1	
11	Enschede	1	
12	Neustadt	1	
13	Kaiserslautern	1	
14	Newnan	1	
15	Denver	1	
16	Caguas	1	
17	Chambery	1	
18	Horsham	1	
19	Nara	1	
20	St. Petersburg	1	
21	Jerusalem	1	
22	Leimen	1	
23	Changwon-si	1	
24	Sparrows Point	1	
25	Pasadena	1	
26	Los Alamos	1	
27	Pitstone	1	
28	Jacksonville	1	
29	Hochwald	1	

7:24 sys@xe AS SYSDBA 29 rows selected in 0.047 seconds (more...)



# delete

5. הסבר מילולי: השאילתה משתמשת בשתי תת-שאילתות מקושרות:

התת-שאילתה הראשונה מוצאת את כל האמבולנסים שהיו מעורבים באירועים, באמצעות הטבלה ambutoevent.

התת-שאילתה השנייה מוצאת את כל האמבולנסים שהם מקושרים לנהגים, באמצעות הטבלה drivertoambu.

השאילתה מוחקת את כל האמבולנסים שלא היו מעורבים בשום אירוע, שהסטטוס שלהם הוא "notavailable", ואין שום נהג שמקושר אליהם.

```
DELETE FROM ambulans
WHERE Ambulance_ID NOT IN (
    SELECT ambulans.Ambulance_ID
    FROM ambulans
    JOIN ambutoevent ON ambulans.Ambulance_ID = ambutoevent.Ambulance_ID
)
AND status = 'notavailable'
AND Ambulance_ID NOT IN (
    SELECT drivertoambu.Ambulance_ID
    FROM drivertoambu
);
```

SQL Window - select \* from ambulans DELETE FROM ambulans WHERE Ambulance\_ID NOT IN ( S...

SQL Output Statistics

```
DELETE FROM ambulans
WHERE Ambulance_ID NOT IN (
    SELECT ambulans.Ambulance_ID
    FROM ambulans
    JOIN ambutoevent ON ambulans.Ambulance_ID = ambutoevent.Ambulance_ID
)
AND status = 'notavailable'
AND Ambulance_ID NOT IN (
    SELECT drivertoambu.Ambulance_ID
    FROM drivertoambu
);
select * from ambulans
```

	LOCAATION	AMBULANCE_ID	AMBULANCENUM	TYPE	STATUS
1	Tel Aviv	1	101	TypeA	Available
2	Jerusalem	2	102	TypeB	Unavailable
3	Haifa	3	103	TypeC	Available
4	Beersheba	4	104	TypeD	Unavailable
5	Rishon LeZion	5	105	TypeA	Available
6	Petah Tikva	6	106	TypeB	Unavailable
7	Ashdod	7	107	TypeC	Available
8	Netanya	8	108	TypeD	Unavailable
9	Holon	9	109	TypeA	Available
10	Bnei Brak	10	110	TypeB	Unavailable
11	Caburg	11111	111	Van	notavailable

sys@xe AS SYSDBA 110 rows selected in 0.078 seconds





SQL Window - select \* from ambulans

SQL Output Statistics

```
select * from ambulans
```

	LOCAATION	AMBULANCE_ID	AMBULANCENUM	TIPE	STATUS
1	Tel Aviv	1	101	TypeA	Available
2	Jerusalem	2	102	TypeB	Unavailable
3	Haifa	3	103	TypeC	Available
4	Beersheba	4	104	TypeD	Unavailable
5	Rishon LeZion	5	105	TypeA	Available
6	Petah Tikva	6	106	TypeB	Unavailable
7	Ashdod	7	107	TypeC	Available
8	Netanya	8	108	TypeD	Unavailable
9	Holon	9	109	TypeA	Available
10	Bnei Brak	10	110	TypeB	Unavailable
11	Coburg	11111	111	Van	notavailable
12	California	11112	112	Van	available
13	Or-yehuda	11113	113	Van	notavailable
14	Dinslaken	11114	114	motorcycle	notavailable
15	Lexington	11115	115	motorcycle	notavailable
16	Tustin	11116	116	motorcycle	available
17	Longview	11117	117	motorcycle	notavailable
18	Uden	11118	118	Van	available
19	Monument	11119	119	Van	available
20	Abbotsford	11120	120	motorcycle	available

sys@xe AS SYSDBA 309 rows selected in 0.11 seconds

SQL Window - select \* from ambulans

SQL Output Statistics

```
select * from ambulans
```

	LOCAATION	AMBULANCE_ID	AMBULANCENUM	TIPE	STATUS
1	Tel Aviv	1	101	TypeA	Available
2	Jerusalem	2	102	TypeB	Unavailable
3	Haifa	3	103	TypeC	Available
4	Beersheba	4	104	TypeD	Unavailable
5	Rishon LeZion	5	105	TypeA	Available
6	Petah Tikva	6	106	TypeB	Unavailable
7	Ashdod	7	107	TypeC	Available
8	Netanya	8	108	TypeD	Unavailable
9	Holon	9	109	TypeA	Available
10	Bnei Brak	10	110	TypeB	Unavailable
11	Coburg	11111	111	Van	notavailable
12	California	11112	112	Van	available
13	Or-yehuda	11113	113	Van	notavailable
14	Dinslaken	11114	114	motorcycle	notavailable
15	Lexington	11115	115	motorcycle	notavailable
16	Tustin	11116	116	motorcycle	available
17	Longview	11117	117	motorcycle	notavailable
18	Uden	11118	118	Van	available
19	Monument	11119	119	Van	available
20	Abbotsford	11120	120	motorcycle	available

sys@xe AS SYSDBA 207 rows selected in 0.095 seconds



**6. הסבר מילולי:** שאילתת SQL DELETE מסירה מתנדבים מטבלת `מתנדבים` שאין להם תפקידים כחובשים, נהגים או פרמדיקים ומספרי הטלפון שלהם מתחילים בספרה "5". פעולה זו מבטיחה שרק מתנדבים שאינם משרתים בתפקידים קריטיים אלה ויש להם דפוס מספר טלפון ספציפי יימחקו ממסד הנתונים. מטרת השאילתה הזו עשויה לנקות או לנהל את מסד הנתונים של המתנדבים על ידי ביטול רשומות העומדות בקריטריונים המסוימים האלה.

נ.ב. עבור הצילומי מסך הוספנו שאילתה שתראה דווקא את הנתונים אותם רצינו למחוק כי בכל זאת יש ארבע מאות נתונים...

```
DELETE FROM Volunteer
WHERE Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Medic
)
AND Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Driver
)
AND Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Paramedic
)
AND PhonNum LIKE '5%';
```

SQL Output Statistics

```

SELECT *
FROM Volunteer
WHERE Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Medic
)
AND Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Driver
)
AND Volunteer_ID NOT IN (
    SELECT Volunteer_ID
    FROM Paramedic
)
AND PhonNum LIKE '5%';
|

```

	VOLUNTEER_ID	NAAME	PHONNUM	ADDRESS	DATEOFBIRTH
1	11113	KingGray	5236523631	98 Mainz-kastel Road	26/10/2001
2	11151	KittyHatchet	5942963595	97 Vai Street	29/10/1995
3	11155	JamesO'Neal	5572275796	606 Arthur Street	28/01/1984
4	11163	GoranBush	5537233412	76 Luis Road	02/01/1988
5	11166	JuiceO'Hara	5193579655	3 Kelli Blvd	06/02/1994
6	11167	AimeeFarina	5777618821	84 Ali	08/10/1980
7	11175	LizzyKeeslar	5796459824	70 Trenton Street	21/07/1999
8	11202	MorrisCaviezel	5111563975	17 Carnes Street	22/05/2000
9	11233	JoelySanchez	5456638489	23rd Street	11/03/1996
10	11302	HarrisonCrowell	5257381337	70 Def Drive	14/07/2003
11	11340	RachaelWong	5581552626	49 Maryville Drive	22/12/1993
12	11388	MaefNicholas	5648975232	85 Law Drive	15/02/1986
13	11416	PelvicDomino	5245846399	86 Jose Road	20/10/1986
14	11422	LenaArkin	5779516361	27 Price Road	21/12/1999
15	11443	JulietTorn	5479381421	40 Aaron	01/01/2003
16	11457	RickMcCain	5592213251	63 Tottori Ave	05/11/1991
17	11469	OzzyLewis	5319992949	33 Laws Street	01/08/1992
18	11473	MiraCraddock	5312359248	89 DiBiasio Street	25/11/2000
19	11481	JohnWeir	5642595176	50 Hampton Ave	03/01/2000

16:1

sys@xe AS SYSDBA

19 rows selected in 0.094 seconds



# איחוד הצלה

רשת המתנדבים להצלת חיים

SQL	Output	Statistics
<pre>DELETE FROM Volunteer WHERE Volunteer_ID NOT IN (   SELECT Volunteer_ID   FROM Medic ) AND Volunteer_ID NOT IN (   SELECT Volunteer_ID   FROM Driver ) AND Volunteer_ID NOT IN (   SELECT Volunteer_ID   FROM Paramedic ) AND PhonNum LIKE '5%';  </pre>		
19 rows deleted in 0 seconds		

```

SQL      Output  Statistics
SELECT a.*
FROM ambulans a
JOIN ambutoevent ae ON a.Ambulance_ID = ae.Ambulance_ID
GROUP BY a.Ambulance_ID, a.Location, a.ambulancenum, a.type, a.status
HAVING COUNT(*) > 1;

```

	LOCATION	AMBULANCE_ID	AMBULANCENUM	TYPE	STATUS
1	Pirmasens	11194	194	motorcycle	notavailable
2	Parsippany	11145	145	Van	available
3	Avon	11164	164	Van	notavailable
4	Breda	11162	162	motorcycle	notavailable
5	Abbotsford	11120	120	motorcycle	available
6	S. Bernardo do	11191	191	motorcycle	notavailable
7	Peine	11155	155	motorcycle	notavailable
8	Santa Fe	11184	184	motorcycle	notavailable
9	Nashua	11198	198	motorcycle	notavailable
10	Tustin	11116	116	motorcycle	available



# איחוד הצלה

**רשת המתנדבים להצלת חיים**

```
SQL      Output  Statistics
SELECT a.*
FROM ambulans a
JOIN ambutoevent ae ON a.Ambulance_ID = ae.Ambulance_ID
GROUP BY a.Ambulance_ID, a.Locaation, a.ambulancenum, a.tipe, a.status
HAVING COUNT(*) > 1;
```

Navigation icons: back, forward, search, etc.

	LOCAATION	AMBULANCE_ID	AMBULANCENUM	TIPE	STATUS
1	Abbotsford	11120	120	motorcycle	notavailable
2	Tustin	11116	116	motorcycle	notavailable
3	Pirmasens	11194	194	motorcycle	notavailable
4	Avon	11164	164	Van	notavailable
5	Breda	11162	162	motorcycle	notavailable
6	S. Bernardo do	11191	191	motorcycle	notavailable
7	Peine	11155	155	motorcycle	notavailable
8	Santa Fe	11184	184	motorcycle	notavailable
9	Nashua	11198	198	motorcycle	notavailable
10	Parsippany	11145	145	Van	notavailable

```
SQL | Output | Statistics
UPDATE ambulans
SET status = 'notavailable'
WHERE Ambulance_ID IN (
SELECT Ambulance_ID
FROM ambutcevent
GROUP BY Ambulance_ID
HAVING COUNT(*) > 10
)
--
Completed
```

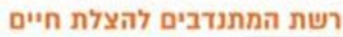
sys@xe AS SYSDBA Done in 0 seconds

```
SQL      Output  Statistics

SELECT p.Volunteer_ID, v.Naame, p.Seniority, COUNT(DISTINCT s.Event_ID) AS EventCount
FROM Paramedic p
JOIN Volunteer v ON p.Volunteer_ID = v.Volunteer_ID
JOIN Shift s ON p.Volunteer_ID = s.Volunteer_ID
GROUP BY p.Volunteer_ID, v.Naame, p.Seniority
HAVING COUNT(DISTINCT s.Event_ID) >= 10;
```

	VOLUNTEER_ID	NAAME	SENIORITY	EVENTCOUNT
▶ 1	11229	CharlesMcCoy ...	6	10
2	11114	LinWorrell ...	7	12
3	11328	LinVaughn ...	9	11
4	11458	RogerMcCann ...	5	14
5	11426	ToniUggams ...	2	10





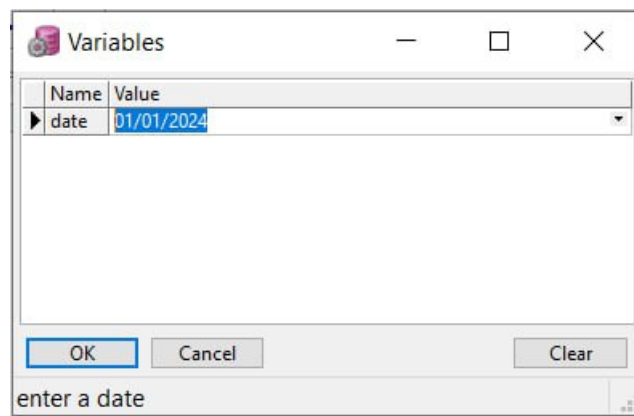
```
SQL      Output  Statistics
UPDATE Paramedic
SET Seniority = Seniority + 1
WHERE Volunteer_ID IN (
    SELECT p.Volunteer_ID
    FROM Paramedic p
    JOIN Shift s ON p.Volunteer_ID = s.Volunteer_ID
    GROUP BY p.Volunteer_ID
    HAVING COUNT(DISTINCT s.Event_ID) >= 10
);
```



## פרמטרים:

9. הסבר מילולי: שאילתה זו משמשת לאחזור רשימה של אירועים שהתרחשו בתאריך מסוים שסופק על ידי המשתמש, תוך הצגת פרטי מפתח לגבי כל אירוע.

```
SELECT
    Event_ID,
    Deescription AS Event_Description,
    Locaation AS Event_Location,
    Date_Time AS Event_Date_Time
FROM
    Event
WHERE
    Date_Time = TO_DATE(&<name="date" hint="enter a
date" type="date">);
```



Name	Value
date	01/01/2024

enter a date

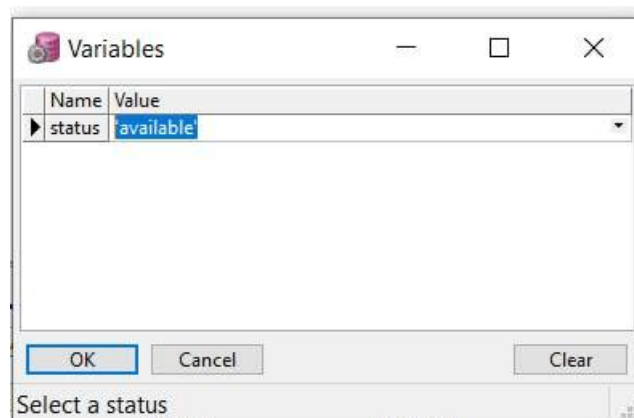
SQL																			
Output																			
Statistics																			
<pre>SELECT     Event_ID,     Deescription AS Event_Description,     Locaation AS Event_Location,     Date_Time AS Event_Date_Time FROM     Event WHERE     Date_Time = TO_DATE(&amp;&lt;name="date" hint="enter a date" type="date"&gt;);</pre>																			
<table> <thead> <tr> <th></th><th>EVENT_ID</th><th>EVENT_DESCRIPTION</th><th>EVENT_LOCATION</th><th>EVENT_DATE_TIME</th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>Birth</td><td>Tel Aviv</td><td>01/01/2024</td></tr> <tr> <td>2</td><td>33381</td><td>Fire</td><td>Hifa</td><td>01/01/2024</td></tr> </tbody> </table>						EVENT_ID	EVENT_DESCRIPTION	EVENT_LOCATION	EVENT_DATE_TIME	1	1	Birth	Tel Aviv	01/01/2024	2	33381	Fire	Hifa	01/01/2024
	EVENT_ID	EVENT_DESCRIPTION	EVENT_LOCATION	EVENT_DATE_TIME															
1	1	Birth	Tel Aviv	01/01/2024															
2	33381	Fire	Hifa	01/01/2024															



**10.** הסבר מילולי: בשאלתה זו המשתמש צריך להזין סטטוס "זמין" או "לא זמין", השאלתה מסננת את טבלת האמבולנסים כך שתכלול רק את אותם אמבולנסים בעלי הסטטוס שצוין.

זה מאפשר לך לנהל ביעילות את מצב צי האמבולנסים בהתבסס על הצרכים הספציפיים בכל זמן נתון.

```
SELECT
    Ambulance_ID,
    Locaation AS Ambulance_Location,
    ambulancenum AS Ambulance_Number,
    tipe AS Ambulance_Type,
    status AS Ambulance_Status
FROM
    ambulans
WHERE
    status = &<name="status" hint="Select a status"
list="'available','notavailable'";
```





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```
SELECT
  Ambulance_ID,
  Locaation AS Ambulance_Location,
  ambulancenum AS Ambulance_Number,
  tipe AS Ambulance_Type,
  status AS Ambulance_Status
FROM
  ambulans
WHERE
  status = &<name="status" hint="Select a status" list="'available','notavailable'";
```

	AMBULANCE_ID	AMBULANCE_LOCATION	AMBULANCE_NUMBER	AMBULANCE_TYPE	AMBULANCE_STATUS
1	11112	California	112	Van	available
2	11118	Uden	118	Van	available
3	11119	Monument	119	Van	available
4	11121	Barcelona	121	Van	available
5	11124	Adamstown	124	motorcycle	available
6	11129	Marlboro	129	motorcycle	available
7	11130	Prague	130	motorcycle	available
8	11131	Tampa	131	motorcycle	available
9	11132	Stocksbridge	132	Van	available
10	11133	San Dimas	133	Van	available
11	11134	Houma	134	motorcycle	available
12	11137	Budapest	137	Van	available
13	11139	Morioka	139	Van	available
14	11140	Lima	140	motorcycle	available
15	11144	Germantown	144	motorcycle	available
16	11146	Orleans	146	Van	available
17	11147	Whittier	147	Van	available
18	11148	Maidstone	148	motorcycle	available
19	11149	Rochester	149	motorcycle	available
20	11152	Zwolle	152	motorcycle	available

10:86 sys@xe AS SYSDBA 20 rows selected in 0.109 seconds (more...)



11. הסבר מילולי: השאילתה נועדה לאחזר מידע מפורט על מתנדבים שהשתתפו במשמרת אחת לפחות על פי מספר טלפון שהוזן כפרמטר על ידי המשתמש.

```
SELECT Volunteer_ID, Naame, PhonNum, Address,
DateofBirth
FROM Volunteer
WHERE Volunteer_ID IN (
    SELECT Volunteer_ID
    FROM Shift
) AND PhonNum= <name="num_prefix_list" hint= "A 10-
digit number" type="integer">;
```

Name	Value
num_prefix_list	4567890123

OK Cancel Clear

A 10-digit number

SQL					
Output					
Statistics					
<pre>SELECT Volunteer_ID, Naame, PhonNum, Address, DateofBirth FROM Volunteer WHERE Volunteer_ID IN (     SELECT Volunteer_ID     FROM Shift ) AND PhonNum= &lt;name="num_prefix_list" hint= "A 10-digit number" type="integer"&gt;;</pre>					
	VOLUNTEER_ID	NAAME	PHONNUM	ADDRESS	DATEOFBIRTH
1	4	Michael Brown ...	4567890123	101 David Ben Gurion Blvd, Beersheba ...	04/04/1995





**12. הסבר מילולי:** השאילתה מחזירה רשימה של מתנדבים שיש להם משמרות בתאריך שהוזן על ידי משתמש כפרמטר, המציגה את תעודת הזהות, השם, מספר הטלפון, הכתובת ותאריך הלידה שלהם.

```
SELECT DISTINCT
    v.Volunteer_ID,
    v.Naame AS Volunteer_Name,
    v.PhonNum AS Volunteer_Phone_Number,
    v.Address AS Volunteer_Address,
    v.DateofBirth AS Volunteer_Date_of_Birth
FROM
    Volunteer v
JOIN
    Shift s ON v.Volunteer_ID = s.Volunteer_ID
WHERE
    TRUNC(s.Daate) = TO_DATE('&<name="date" hint="enter a
date" type="date">');
```

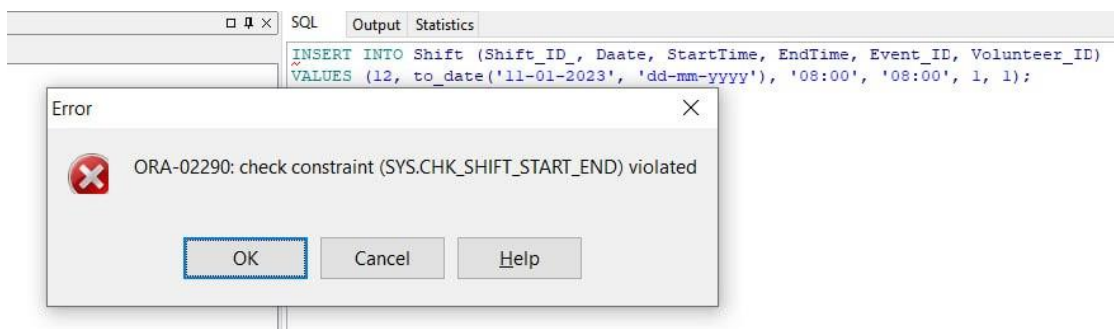
SQL					
Output					
Statistics					
<pre>SELECT DISTINCT     v.Volunteer_ID,     v.Naame AS Volunteer_Name,     v.PhonNum AS Volunteer_Phone_Number,     v.Address AS Volunteer_Address,     v.DateofBirth AS Volunteer_Date_of_Birth FROM     Volunteer v JOIN     Shift s ON v.Volunteer_ID = s.Volunteer_ID WHERE     TRUNC(s.Daate) = TO_DATE('&amp;&lt;name="date" hint="enter a date" type="date"&gt;');</pre>					
VOLUNTEER_ID   VOLUNTEER_NAME   VOLUNTEER_PHONE_NUMBER   VOLUNTEER_ADDRESS   VOLUNTEER_DATE_OF_BIRTH					
1	John Doe	1234567890	123 Herzl St, Tel Aviv	01/01/1980	

**1. אילוץ בדיקה check -** הפקודה להוספת אילוץ מבטיחה ש-'StartTime' ו-'EndTime' בטבלה 'Shift' אינם זהים.

האילוץ:

```
ALTER TABLE Shift
ADD CONSTRAINT chk_Shift_Start_End CHECK (StartTime <> EndTime);
```

כעת ננסה להפיר את האילוץ על ידי שנזין כי עבור משמרת זמן ההתחלה והסיום זהים ונקבל שגיאה:

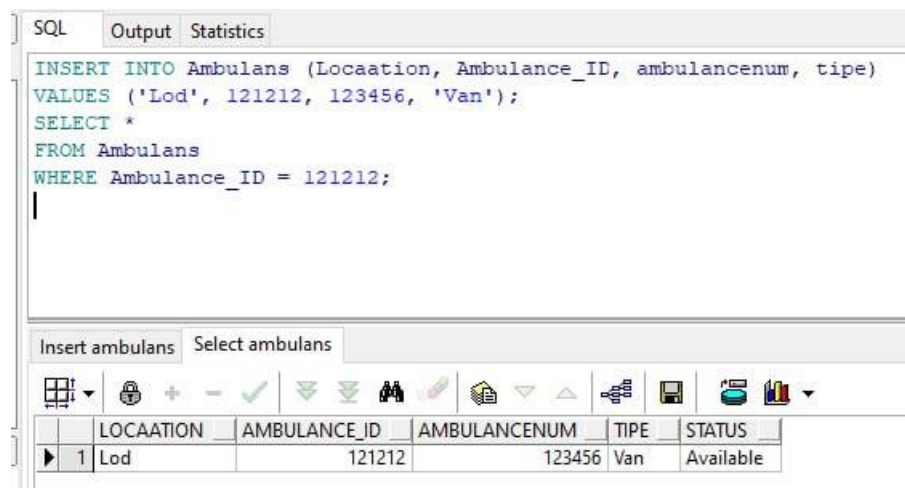


**2. אילוץ בדיקה default -** באילוץ זה אנו מוודאים שאם לא צוין ערך עבור העמודה 'סטטוס' כאשר רשומה חדשה מוכנסת לטבלה 'אמבולנס', ערך ברירת המחדל "זמין" יוזן באופן אוטומטי.

האילוץ:

```
ALTER TABLE Ambulans
MODIFY status DEFAULT 'Available';
```

כעת נראה כי עבור אמבולנס שלא הזנו ערך בעמודה סטטוס יתקבל הערך זמין אוטומטית:

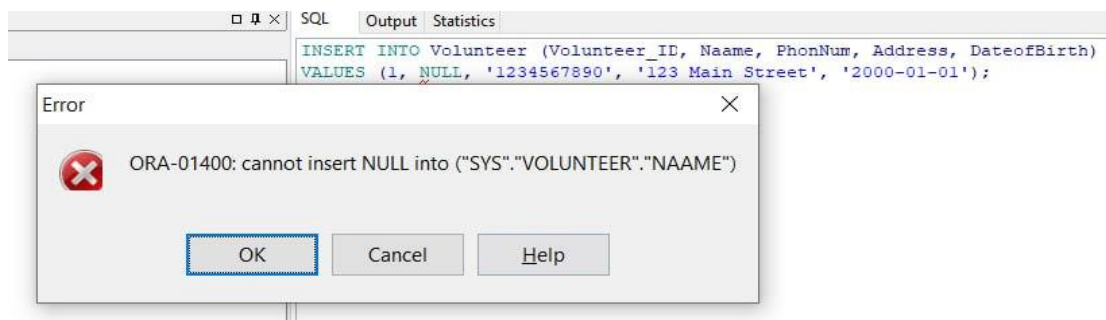


3. אילויץ בדיקה not null - העמודה 'שם' מוגדרת ל-'VARCHAR(20)' ו-'NOT NULL', כלומר העמודה תכיל עד 20 תווים וחייבת להיות בעלת ערך.

האילוץ:

```
ALTER TABLE Volunteer
MODIFY Naame VARCHAR(20) NOT NULL;
```

כעת נראה כי עבור מתנדב שלא הזנו ערך בעמודה 'שם' תתקבל שגיאה:



## :Rollback And Commit

נבצע פעולת הכנסה לטבלה Volunteer, נבצע commit ולאחר מכן נבקש שרק השורות בעלות Volunteer\_id=1111 יוצגו ומכיוון שזה מפתח כמובן שתוצג רק שורה אחת כזו וניתן לראות כי אכן בסיס הנתונים התעדכן בעקבות הפקודה commit

```
commit
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth)
VALUES (1111, 'kira', '1234567880', '153 Main Street', to_date('12-10-1989',
select *
from volunteer
where volunteer_id =1111
```

	VOLUNTEER_ID	NAAME	PHONNUM	ADDRESS	DATEOFBIRTH
1	1111	kira	1234567880	153 Main Street	12/10/1989

כעת נבצע את הפקודה rollback ולאחר מכן נבקש שוב רק את השורות בהן Volunteer\_id=1111 ונקבל כי לא קיימת שורה כזו.

```
SQL Output Statistics
commit
INSERT INTO Volunteer (Volunteer_ID, Naame, PhonNum, Address, DateofBirth)
VALUES (1111, 'kira', '1234567880', '153 Main Street', to_date('12-10-1989',
select *
from volunteer
where volunteer_id =1111
rollback
```

	VOLUNTEER_ID	NAAME	PHONNUM	ADDRESS	DATEOFBIRTH
--	--------------	-------	---------	---------	-------------





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