בס"ד

דוח פרויקט
מיני פרויקט בבסיסי נתונים
- שלב א' -

המערכת: מערכת לניהול ספריה

היחידה הנבחרת: ניהול אירועים בספריה

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מבוא

המערכת הכללית היא מערכת לניהול ספריה. היחידה בה אנו מתמקדות היא ניהול האירועים בספריה.

מטעם הספרייה מתארגנים אירועים שונים ופעילויות שונות, בתאריכים שונים, באולמות שונים הקיימים בספריה, ולקהלי יעד שונים.

המערכת שלנו שומרת מידע רלוונטי אודות האירועים (בעבר או בעתיד), האולמות, מנהלי האירועים, המפעילים והמשתתפים.

מטרת המערכת היא לאפשר ניהול וסנכרון נוח ומסודר בין הגורמים השונים, וכן לאפשר מעקב והסקת מסקנות על סמך נתוני עבר, על מנת לייעל את מדור הפעילויות של הספרייה.

נרצה לתשאל את המערכת שאלות כגון:

כל המידע אודות פעילות מסוימת (פרטי המיקום, המנהל, המשתתפים, מפעיל וכו')

באיזה אולם שביעות הרצון מההפעלות היא הטובה ביותר – על פי ציון המשוב שסיפקו המשתתפים.

מהו האירוע שגרף את הרווחים המקסימלים (נחשב לפי כמות המשתתפים, המחיר לכרטיס, ומחיר המפעיל)

איזה סוג פעילות הוא המועדף בקרב ילדים מתחת לגיל 15 (נראה עבור איזה פעילות כמות הנרשמים מטווח גילאים זה היא הגבוהה ביותר)

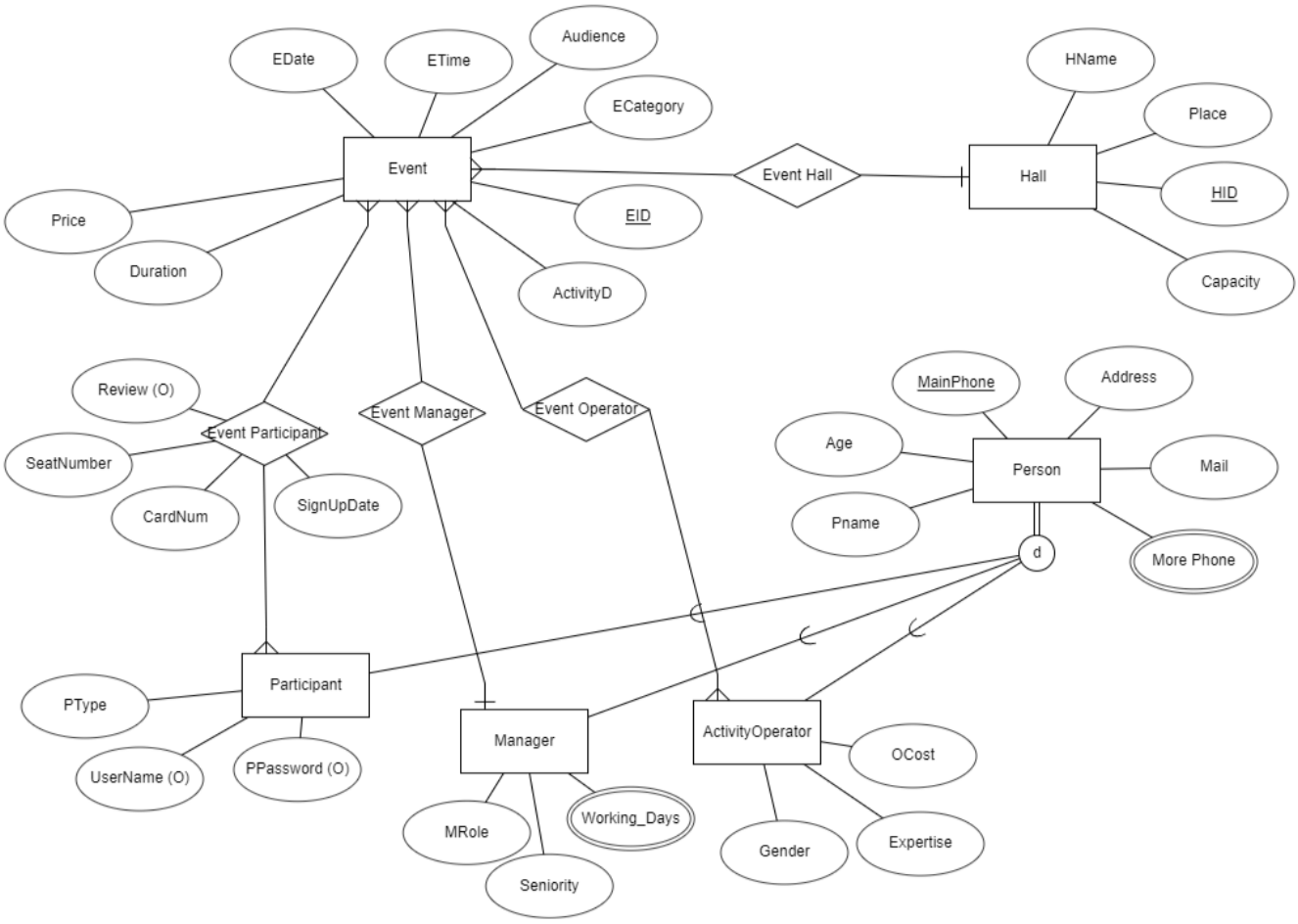
מהו הגיל הממוצע של המשתתפים בהרצאות

חישוב הנחה עבור כל הנרשמים עד שבוע לפני יום האירוע

וכן הלאה...

בס"ד

תרשים ERD



<u>נתייחס לכמה החלטות עיצוב שקיבלנו:</u>

-קשר "רבים לרבים" בין ישות מפעיל לישות אירוע: מאחר שיתכן שיוזמן יותר ממפעיל יחיד לאירוע מסוים, הקשר הוא כזה שמאפשר זאת.

-לעומת זאת: קשר "יחיד לרבים" בין ישות נהל לישות אירוע: בחרנו לאפשר שיבוץ של מנהל אחד בלבד לכל אירוע שיהיה האחראי הראשי, כדי לשמור על הגיון ועל סדר.

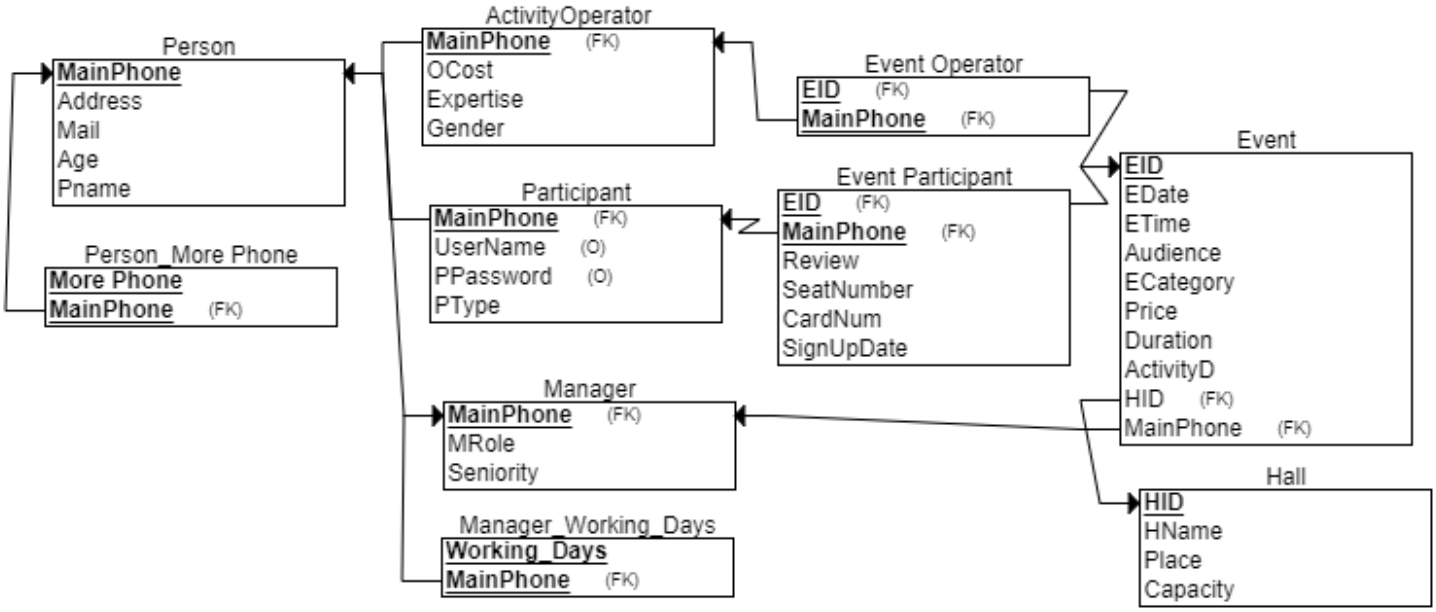
-משתתף יכול להיות מסוג "מנוי" או "לא מנוי". עבור משתתף מנוי בלבד נשמרים שם המשתמש וסיסמא, ולכן תכונות אלו אופציונאליות בלבד.

-עבור ישות מנהל ישנה תכונה ששומרת את הימים בשבוע בהם הוא עובד, משום שדבר זה תורם להסקת מסקנות שקשורות לניהול אירועים, ולשיבוץ תקין של מנהל ואירוע זה לזה.

-מאחר ויש לנו שלוש ישויות (מפעיל, מנהל ומשתתף) שמייצגות אנשים, ארגנו את הקשרים בעזרת ירושה, כך שיש ישות "person" כללית, שלה תכונות הנוגעות לכל האנשים. וממנה יורשת כל ישות ספציפית יותר, ומכילה תכונות נוספות שרלוונטיות עבורה בלבד.

בס"ד

תרשים DSD



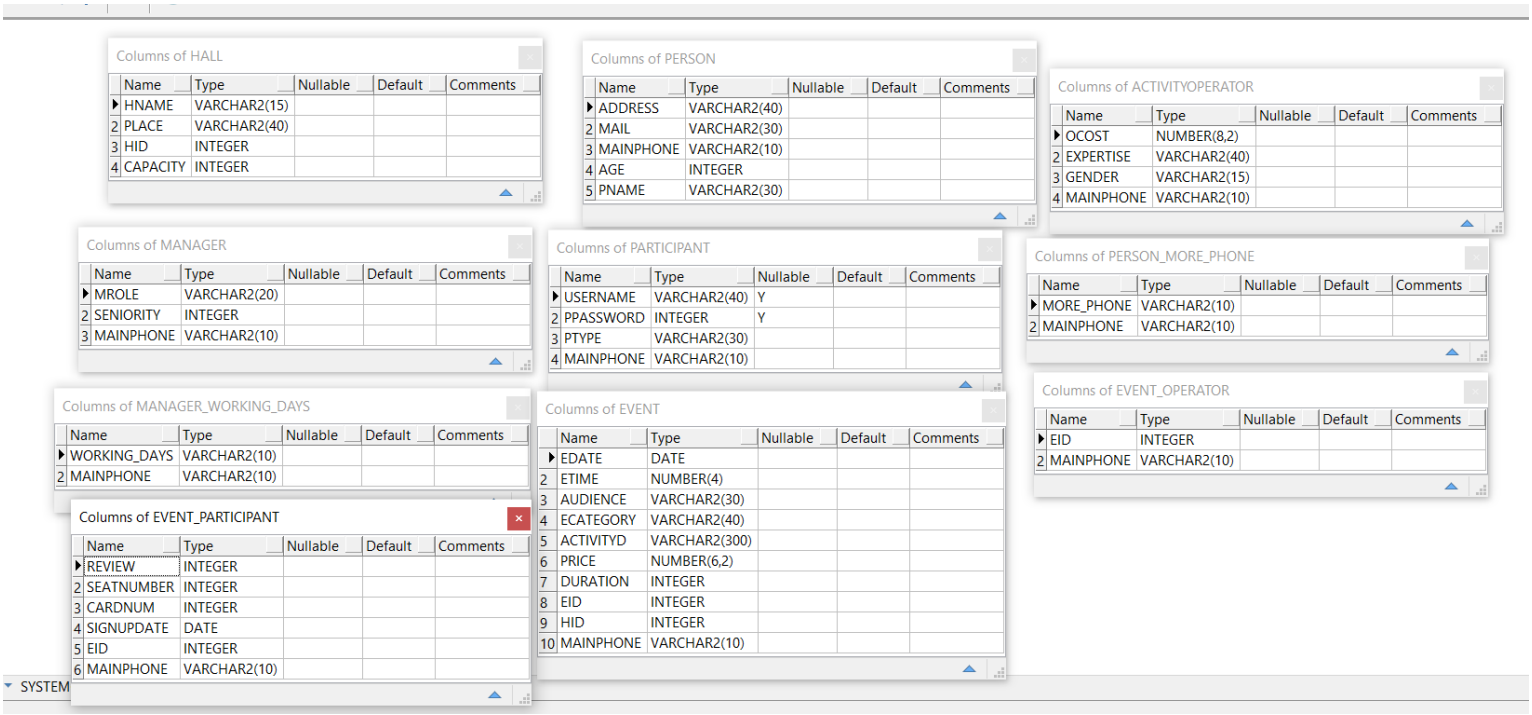
CREATE TABLE פקודת

```
CREATE TABLE Hall
(
  HName varchar2(15) NOT NULL,
  Place varchar2(40) NOT NULL,
  HID INT NOT NULL,
  Capacity INT NOT NULL,
  PRIMARY KEY (HID)
);

CREATE TABLE Person
(
  Address varchar2(40) NOT NULL,
  Mail varchar2(30) NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  Age INT NOT NULL,
  Pname varchar2(30) NOT NULL,
  PRIMARY KEY (MainPhone)
);

CREATE TABLE Manager
(
  MRole varchar2(20) NOT NULL,
  Seniority INT NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (MainPhone),
  FOREIGN KEY (MainPhone) REFERENCES Person(MainPhone)
);

CREATE TABLE ActivityOperator
(
  OCost number(8,2) NOT NULL,
  Expertise varchar2(40) NOT NULL,
  Gender varchar2(15) NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (MainPhone),
  FOREIGN KEY (MainPhone) REFERENCES Person(MainPhone)
);

CREATE TABLE Participant
(
  UserName varchar2(40),
  PPassword INT,
  PType varchar2(30) NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (MainPhone),
  FOREIGN KEY (MainPhone) REFERENCES Person(MainPhone)
);

CREATE TABLE Person_More_Phone
(
  More_Phone varchar2(10) NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (More_Phone, MainPhone),
  FOREIGN KEY (MainPhone) REFERENCES Person(MainPhone)
);
```

```
CREATE TABLE Manager_Working_Days
(
  Working_Days varchar2(10) NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (Working_Days, MainPhone),
  FOREIGN KEY (MainPhone) REFERENCES Manager(MainPhone)
);

CREATE TABLE Event
(
  EDate date NOT NULL,
  ETime number(4,0) NOT NULL,
  Audience varchar2(30) NOT NULL,
  ECategory varchar2(40) NOT NULL,
  ActivityD varchar2(300) NOT NULL,
  Price NUMBER(6,2) NOT NULL,
  Duration INT NOT NULL,
  EID INT NOT NULL,
  HID INT NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (EID),
  FOREIGN KEY (HID) REFERENCES Hall(HID),
  FOREIGN KEY (MainPhone) REFERENCES Manager(MainPhone)
);

CREATE TABLE Event_Operator
(
  EID INT NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (EID, MainPhone),
  FOREIGN KEY (EID) REFERENCES Event(EID),
  FOREIGN KEY (MainPhone) REFERENCES ActivityOperator(MainPhone)
);

CREATE TABLE Event_Participant
(
  Review INT NOT NULL,
  SeatNumber INT NOT NULL,
  CardNum INT NOT NULL,
  SignUpDate date NOT NULL,
  EID INT NOT NULL,
  MainPhone varchar2(10) NOT NULL,
  PRIMARY KEY (EID, MainPhone),
  FOREIGN KEY (EID) REFERENCES Event(EID),
  FOREIGN KEY (MainPhone) REFERENCES Participant(MainPhone)
);
```

בס"ד

Desc



Columns of HALL

	Name	Type	Nullable	Default	Comments
1	HNAME	VARCHAR2(15)			
2	PLACE	VARCHAR2(40)			
3	HID	INTEGER			
4	CAPACITY	INTEGER			

Columns of PERSON

	Name	Type	Nullable	Default	Comments
1	ADDRESS	VARCHAR2(40)			
2	MAIL	VARCHAR2(30)			
3	MAINPHONE	VARCHAR2(10)			
4	AGE	INTEGER			
5	PNAME	VARCHAR2(30)			

Columns of ACTIVITYOPERATOR

	Name	Type	Nullable	Default	Comments
1	OCOST	NUMBER(8,2)			
2	EXPERTISE	VARCHAR2(40)			
3	GENDER	VARCHAR2(15)			
4	MAINPHONE	VARCHAR2(10)			

Columns of MANAGER

	Name	Type	Nullable	Default	Comments
1	MROLE	VARCHAR2(20)			
2	SENIORITY	INTEGER			
3	MAINPHONE	VARCHAR2(10)			

Columns of PARTICIPANT

	Name	Type	Nullable	Default	Comments
1	USERNAME	VARCHAR2(40)	Y		
2	PPASSWORD	INTEGER	Y		
3	PTYPE	VARCHAR2(30)			
4	MAINPHONE	VARCHAR2(10)			

Columns of PERSON_MORE_PHONE

	Name	Type	Nullable	Default	Comments
1	MORE_PHONE	VARCHAR2(10)			
2	MAINPHONE	VARCHAR2(10)			

Columns of MANAGER_WORKING_DAYS

	Name	Type	Nullable	Default	Comments
1	WORKING_DAYS	VARCHAR2(10)			
2	MAINPHONE	VARCHAR2(10)			

Columns of EVENT

	Name	Type	Nullable	Default	Comments
1	EDATE	DATE			
2	ETIME	NUMBER(4)			
3	AUDIENCE	VARCHAR2(30)			
4	ECATEGORY	VARCHAR2(40)			
5	ACTIVITYD	VARCHAR2(300)			
6	PRICE	NUMBER(6,2)			
7	DURATION	INTEGER			
8	EID	INTEGER			
9	HID	INTEGER			
10	MAINPHONE	VARCHAR2(10)			

Columns of EVENT_OPERATOR

	Name	Type	Nullable	Default	Comments
1	EID	INTEGER			
2	MAINPHONE	VARCHAR2(10)			

Columns of EVENT_PARTICIPANT

	Name	Type	Nullable	Default	Comments
1	REVIEW	INTEGER			
2	SEATNUMBER	INTEGER			
3	CARDNUM	INTEGER			
4	SIGNUPDATE	DATE			
5	EID	INTEGER			
6	MAINPHONE	VARCHAR2(10)			

SYSTEM

בס"ד

הכנסת נתונים ע"י **data generator**

לדוגמא:

EVENT

Owner: SYSTEM | Table: EVENT | Number of records: 420

Name	Type	Size	Data
EDATE	DATE		Random(1/1/2000, 1/1/2016)
ETIME	NUMBER	4	list(1000, 1030, 1100, 1200, 1230, 1300, 1330, 1400, 1430, 1500, 1530, 1600, 1630, 1700, 1730, 1800,
AUDIENCE	VARCHAR2	30	list('Children', 'Adults', 'Elderly', 'Youth', 'Children and youth')
ECATEGORY	VARCHAR2	40	list('Lecture', 'workshop', 'performance', 'story', 'educational activity', 'play', 'conversation with an au
ACTIVITYD	VARCHAR2	300	Components.Description
PRICE	NUMBER	6,2	Random(10.00, 300.00)
DURATION	NUMBER		Random(30, 360)
EID	NUMBER		Sequence(1, [Inc])
HID	NUMBER		List(select HID from HALL)
MAINPHONE	VARCHAR2	10	List(select MAINPHONE from MANAGER)

HALL

Owner: SYSTEM | Table: HALL | Number of records: 450

Name	Type	Size	Data
HNAME	VARCHAR2	15	List('Iris', 'Tavor', 'Galilee', 'Hermon', 'Carmel', 'Negev', 'Sharon', 'Golan', 'Eilat', 'Sinai')
PLACE	VARCHAR2	40	List('floor: 0 room: 0001', 'floor: 1 room: 1023', 'floor: 2 room: 2034', 'floor: 3 room: 3045','floor: 4 room: 4056', 'floor: 5
HID	NUMBER		Sequence(1, [Inc], [WithinParent])
CAPACITY	NUMBER		List(30,50,80,100,150,200,250,300,500)

EVENT

EDATE	ETIME	AUDIENCE	ECATEGORY	ACTIVITYD	PRICE	DURA	EID	HID	MAINPHONE
04-05-2012	1630	Adults	exhibition	ADS USB2000 USB Turbo 2.0 pci (	53.77	224	1	8	5550004
17-04-2001	1330	Adults	performance	AMD XP 2000+ Box/with AMD Fa	218.51	52	2	5	5550008
24-03-2010	1630	Elderly	story	AMD XP 2600+ Retail box. (with 3	201.20	134	3	2	5550004
20-03-2007	1630	Youth	sports	GA-SINXP1394(GA-8SQ800 Ultra2	152.14	107	4	2	5550008
25-08-2013	1530	Children ar	story	AMD XP 2200+ & Gigabyte 7N40	147.54	65	5	6	5550001
17-06-2001	1630	Elderly	film screening	Black Complete Computer Systen	190.68	110	6	6	5550001
30-11-2000	1030	Adults	performance	Cable/DSL Broadband Router (w/	209.14	161	7	1	5550004
16-01-2002	1200	Elderly	film screening	ATI Radeon 7000 32MB DDR PCI (	265.19	343	8	4	5550001
31-12-2012	1230	Elderly	sports	8 inch Neon blue lamp	36.09	201	9	3	5550003
22-02-2014	1000	Elderly	exhibition	Combo AMD XP 2600+ CPU; Giga	82.78	317	10	6	5550008
01-02-2014	1900	Children ar	exhibition	Maxtor External 80Gb Hard drive	287.55	96	11	7	5550006
16-12-2000	1930	Children ar	exhibition	Intel Pentium4 2.0ghz & Gigabyte	66.50	345	12	6	5550001
17-05-2000	1630	Youth	volunteering	14inch LCD MG-015A Xgen2 Mon	236.00	158	13	7	5550008
28-07-2000	1300	Adults	exhibition	USB to Parallel Printer Cable.	269.12	360	14	4	5550008
15-05-2007	1300	Children ar	exhibition	Biostar M7TDR P4 M/B Skt 423 (w	184.18	162	15	7	5550008
16-10-2011	1500	Elderly	training	Intel Celeron 1.3Ghz & Biostar M6	175.97	303	16	2	5550006
25-12-2011	1430	Elderly	story	TV Tuner card PCI (KWorld M878A	265.58	207	17	6	5550003
05-07-2004	1900	Elderly	educational activity	Intel Celeron 1.3GHz 256k S370 F(	244.54	282	18	7	5550008
03-08-2014	1030	Youth	exhibition	AMD XP 2000+ (OEM)	54.86	282	19	7	5550001
24-04-2005	1200	Children ar	Lecture	AMD XP 1800+ & Biostar M7VKQ	80.72	134	20	4	5550003
26-07-2006	1200	Adults	film screening	Intel Pentium4 3.0ghz & Asus P4C	127.18	207	21	2	5550003
14-03-2011	1230	Elderly	sports	Sony 16X DVD-CDRom (OEM)	162.86	58	22	3	5550001
30-06-2006	1800	Children	Lecture	AMD XP 1700+ & Gigabyte GA-7(	199.23	212	23	5	5550001
22-04-2015	1630	Elderly	performance	ADS Technologies Firewire Extern	151.69	295	24	7	5550001
26-05-2007	2000	Adults	film screening	AMD XP 2100+ CPU (oem)(AXDA	236.29	338	25	6	5550003
23-06-2008	1500	Children	exhibition	Cyber Power 725VA Battery Back	226.61	139	26	8	5550003

HALL

HNAME	PLACE	HID	CAPACITY
Iris	floor: 2 room: 2034	1	200
Galilee	floor: 0 room: 0001	2	250
Eilat	floor: 2 room: 2034	3	200
Golan	floor: 4 room: 4056	4	300
Sharon	floor: 0 room: 0001	5	250
Sinai	floor: 2 room: 2034	6	30
Hermon	floor: 3 room: 3045	7	80
Iris	floor: 2 room: 2034	8	80
Negev	floor: 6 room: 6078	9	150
Negev	floor: 2 room: 2034	10	500
Galilee	floor: 1 room: 1023	11	50
Sinai	floor: 3 room: 3045	12	80
Hermon	floor: 5 room: 5067	13	200
Hermon	floor: 1 room: 1023	14	30
Sharon	floor: 4 room: 4056	15	50
Negev	floor: 0 room: 0001	16	30
Eilat	floor: 5 room: 5067	17	50
Carmel	floor: 3 room: 3045	18	50
Sinai	floor: 1 room: 1023	19	250
Eilat	floor: 0 room: 0001	20	500
Iris	floor: 1 room: 1023	21	300
Eilat	floor: 3 room: 3045	22	150
Galilee	floor: 1 room: 1023	23	80

בס"ד

הכנסת נתונים עם קוד **python**

חלק מן הקוד:

```python
import random
from datetime import datetime, timedelta

def random_date(start, end):
    return start + timedelta(days=random.randint(0, (end - start).days))

def generate_phone_number():
    return "555" + "".join([str(random.randint(0, 9)) for _ in range(4)])

def main():
    # File to write SQL inserts
    with open("InsertTablesByPython.sql", "w") as file:
        # Parameters for data generation
        num_entries = 15

        # Generating and writing data for Hall table
        for i in range(1, num_entries + 1):
            hname = f"Hall {i}"
            place = f"Location {i}"
            hid = i
            capacity = random.randint(20, 300)
            file.write(f"INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('{hname}', '{place}', {hi

        # Generating and writing data for Person table
        persons = []
        for i in range(1, num_entries + 1):
            address = f"{i * 123} Elm St"
            mail = f"person{i}@example.com"
            main_phone = generate_phone_number()
            age = random.randint(20, 60)
            pname = f"Person {i}"
            persons.append((address, mail, main_phone, age, pname))
            file.write(f"INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('{address}'

        # Generating and writing data for Manager table
        for i in range(1, num_entries + 1):
            mrole = random.choice(['Event Coordinator', 'Senior Manager', 'Assistant Manager', 'Operat

    # Generating and writing data for Event table
    start_date = datetime.strptime('2024-06-01', '%Y-%m-%d')
    end_date = datetime.strptime('2024-06-30', '%Y-%m-%d')
    for i in range(1, num_entries + 1):
        edate = random_date(start_date, end_date).strftime('%Y-%m-%d')
        etime = random.randint(1000, 1800)
        audience = random.choice(['Children', 'Adults', 'Family', 'Teens', 'Seniors'])
        ecategory = random.choice(['Education', 'Health', 'Entertainment', 'Literature', 'History', 'Musi
        activityd = f"Activity Description {i}"
        price = round(random.uniform(5.00, 20.00), 2)
        duration = random.randint(45, 180)
        eid = i
        hid = random.randint(1, num_entries)
        main_phone = random.choice(persons)[2]
        file.write(f"INSERT INTO Event (EDate, ETime, Audience, ECategory, ActivityD, Price, Duration, EI

    # Generating and writing data for Event_Operator table
    for i in range(1, num_entries + 1):
        eid = i
        main_phone = random.choice(persons)[2]
        file.write(f"INSERT INTO Event_Operator (EID, MainPhone) VALUES ({eid}, '{main_phone}');\n")

    # Generating and writing data for Event_Participant table
    for i in range(1, num_entries + 1):
        review = random.randint(1, 5)
        seat_number = random.randint(1, 200)
        card_num = random.randint(100000000000, 999999999999)
        signup_date = random_date(start_date, end_date).strftime('%Y-%m-%d')
        eid = i
        main_phone = random.choice(persons)[2]
        file.write(f"INSERT INTO Event_Participant (Review, SeatNumber, CardNum, SignUpDate, EID, MainPho
```

בס"ד

חלק מן הפקודות שנוצרו:

C: > Users > halel > OneDrive - g.jct.ac.il > מסמכים > לימודים > מיניף בסיסי נתונים > InsertTablesByPython.sql

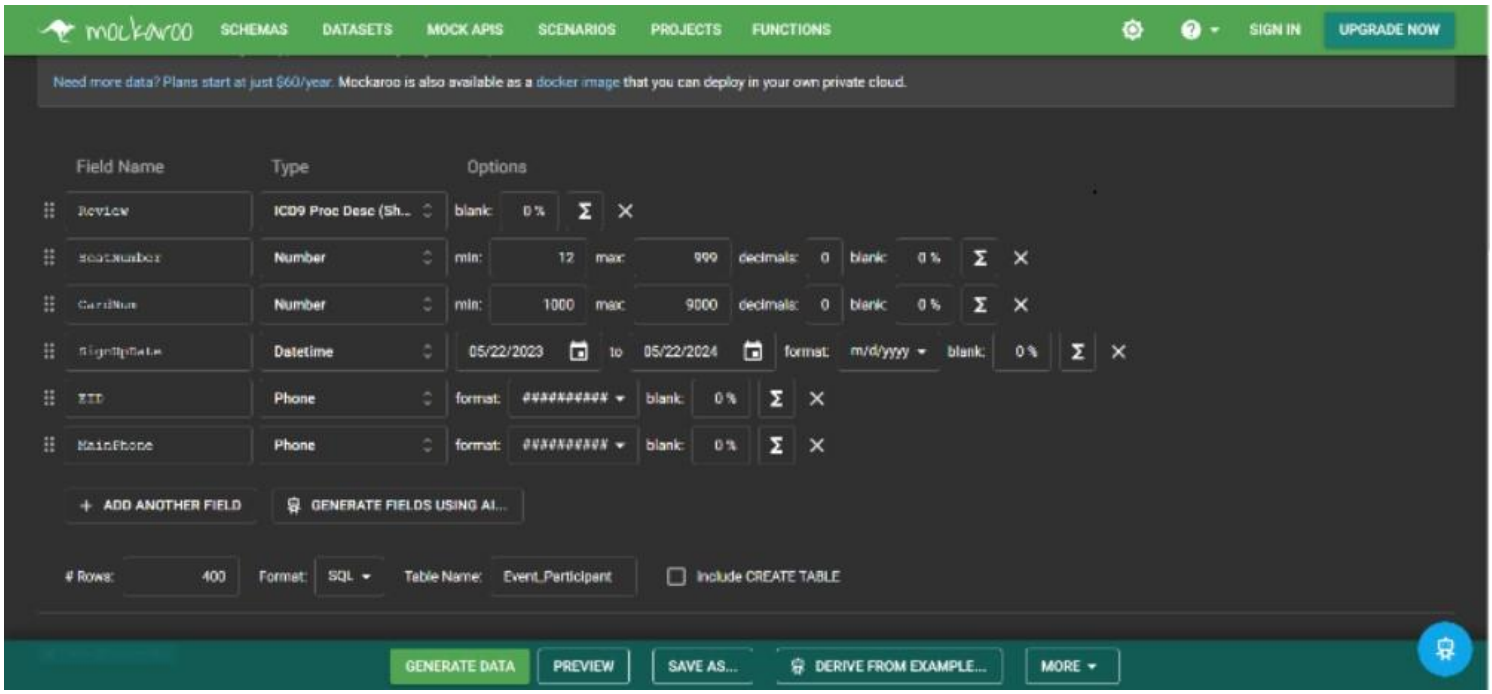
```
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 1', 'Location 1', 1, 243);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 2', 'Location 2', 2, 25);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 3', 'Location 3', 3, 211);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 4', 'Location 4', 4, 265);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 5', 'Location 5', 5, 246);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 6', 'Location 6', 6, 58);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 7', 'Location 7', 7, 173);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 8', 'Location 8', 8, 104);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 9', 'Location 9', 9, 295);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 10', 'Location 10', 10, 128);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 11', 'Location 11', 11, 98);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 12', 'Location 12', 12, 88);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 13', 'Location 13', 13, 135);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 14', 'Location 14', 14, 286);
INSERT INTO Hall (HName, Place, HID, Capacity) VALUES ('Hall 15', 'Location 15', 15, 129);
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('123 Elm St', 'person1@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('246 Elm St', 'person2@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('369 Elm St', 'person3@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('492 Elm St', 'person4@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('615 Elm St', 'person5@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('738 Elm St', 'person6@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('861 Elm St', 'person7@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('984 Elm St', 'person8@example.com', '555
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1107 Elm St', 'person9@example.com', '55
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1230 Elm St', 'person10@example.com', '5
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1353 Elm St', 'person11@example.com', '5
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1476 Elm St', 'person12@example.com', '5
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1599 Elm St', 'person13@example.com', '5
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1722 Elm St', 'person14@example.com', '5
INSERT INTO Person (Address, Mail, MainPhone, Age, Pname) VALUES ('1845 Elm St', 'person15@example.com', '5
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Assistant Manager', 14, '5555832');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Senior Manager', 16, '5552340');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Event Coordinator', 10, '5553380');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Operations Manager', 10, '5553368');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Event Coordinator', 12, '5551119');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Operations Manager', 13, '5559394');
INSERT INTO Manager (MRole, Seniority, MainPhone) VALUES ('Junior Manager', 17, '5552448');
```

```
INSERT INTO ActivityOperator (OCost, Expertise, Gender, MainPhone) VALUES (121.65, 'Science educator', 'Female
INSERT INTO ActivityOperator (OCost, Expertise, Gender, MainPhone) VALUES (129.03, 'Yoga guide', 'Male', '555
INSERT INTO ActivityOperator (OCost, Expertise, Gender, MainPhone) VALUES (151.64, 'Yoga guide', 'Female', '5
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user1', 1444, 'Child', '5555832');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user2', 6240, 'Senior', '5552340');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user3', 7097, 'Adult', '5553380');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user4', 3597, 'Senior', '5553368');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user5', 2017, 'Adult', '5551119');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user6', 2010, 'Child', '5559394');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user7', 2307, 'Senior', '5552448');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user8', 1861, 'Teen', '5551604');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user9', 8738, 'Adult', '5552568');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user10', 7032, 'Teen', '5550968');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user11', 8630, 'Adult', '5559933');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user12', 5450, 'Child', '5553686');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user13', 6976, 'Adult', '5557172');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user14', 2355, 'Child', '5559074');
INSERT INTO Participant (UserName, PPassword, PType, MainPhone) VALUES ('user15', 3378, 'Senior', '5558034');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5557095', '5555832');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5556526', '5552340');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5556835', '5553380');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5553134', '5553368');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5552321', '5551119');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5554131', '5559394');
INSERT INTO Person_More_Phone (More_Phone, MainPhone) VALUES ('5557086', '5552448');
```

בס"ד

הכנסת נתונים דרך **Mockaroo**

שימוש באתר:



חלק מן הפקודות שנוצרו:

C: > Users > danie > Desktop > Person.sql

```
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('59746 Mallard Avenue', 'jyepiskov0@netlog.com', '7938262589', '
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('72678 Roxbury Alley', 'gmerdew1@etsy.com', '1794405930', '14-34
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('074 8th Drive', 'orapps2@hatena.ne.jp', '8209392764', '80-896-2
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('7 Meadow Valley Way', 'ehathway3@phpbb.com', '2447576877', '76-
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('6465 Walton Road', 'tjohl4@about.com', '5663046222', '63-070-07
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('58 Sullivan Junction', 'syoung5@technorati.com', '2711538487',
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('404 Beilfuss Park', 'fpapierz6@digg.com', '4461171750', '95-836
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('7577 Sullivan Lane', 'tplimmer7@ocn.ne.jp', '8125534679', '13-6
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('892 Mendota Junction', 'htease8@timesonline.co.uk', '4512841262
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('9422 Sullivan Crossing', 'khillock9@gov.uk', '7735645405', '53-
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('86 Clemons Plaza', 'plyosika@de.vu', '5799439646', '35-002-8560
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('575 Derek Trail', 'mbutterfieldb@squarespace.com', '2091681671'
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('63837 Erie Terrace', 'morisc@woothemes.com', '9762559797', '77-
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('15624 Superior Parkway', 'lperisd@marketwatch.com', '2072913923
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('057 Swallow Pass', 'kbingee@dailymail.co.uk', '2352130089', '90
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('8395 Arkansas Court', 'nmethamf@hatena.ne.jp', '6166375696', '9
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('02775 Anzinger Court', 'nkinsong@upenn.edu', '4637527717', '40-
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('819 Village Green Hill', 'bcantrillh@columbia.edu', '4563471949
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('11 Luster Avenue', 'ahurlstoni@xing.com', '1484501201', '20-858
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('63 Crowley Crossing', 'cvanj@army.mil', '1822359497', '36-023-4
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('0 Saint Paul Terrace', 'kkittlessk@canalblog.com', '3765529169'
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('24 Claremont Way', 'jbarringerl@hugedomains.com', '5419266601',
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('5919 Tennyson Plaza', 'adem@gizmodo.com', '9001060105', '18-812
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('4 Cottonwood Terrace', 'tpressn@sitemeter.com', '2638940170', '
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('14494 Messerschmidt Terrace', 'mwolferso@foxnews.com', '3039574
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('68 Oakridge Circle', 'rwillgrassp@forbes.com', '1546210565', '4
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('1249 Heath Terrace', 'ecolqueranq@blog.com', '1094143040', '89-
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('5969 Spaight Place', 'rgumleyr@aboutads.info', '7316622972', '4
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('32546 Holmberg Alley', 'fdencss@fema.gov', '4705691089', '81-15
insert into Person (Address , Mail , MainPhone , Age , Pname ) values ('471 Hazelcrest Pass', 'mboltt@bluehost.com', '4456145153', '06-
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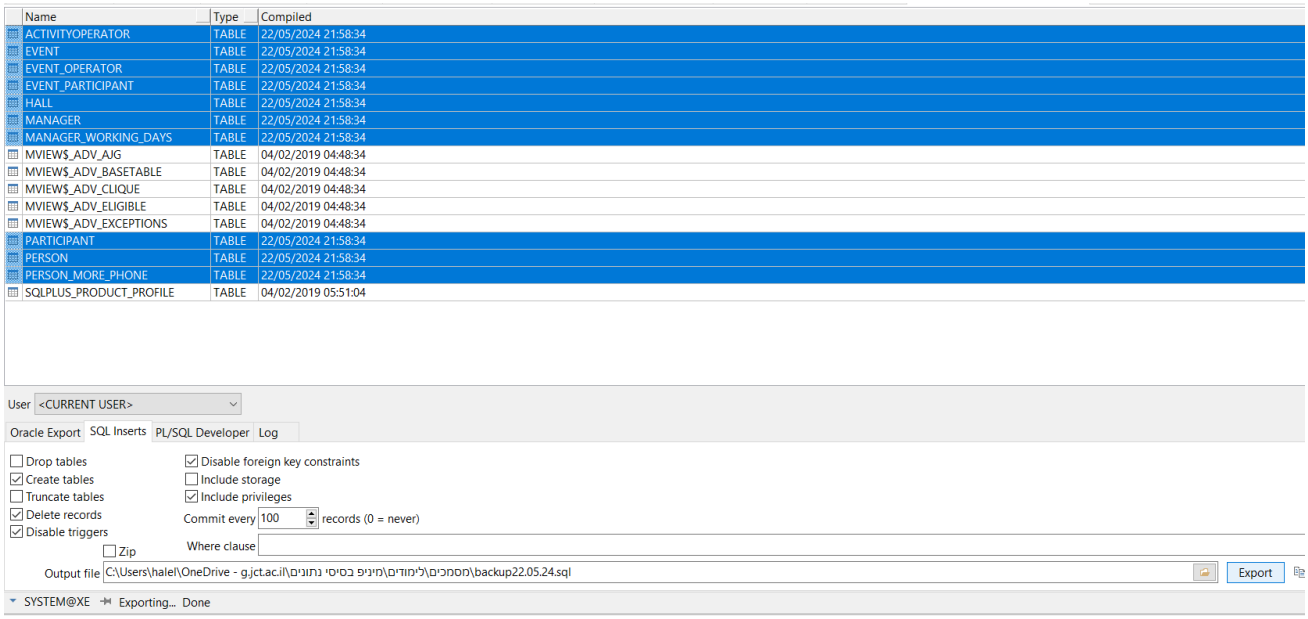
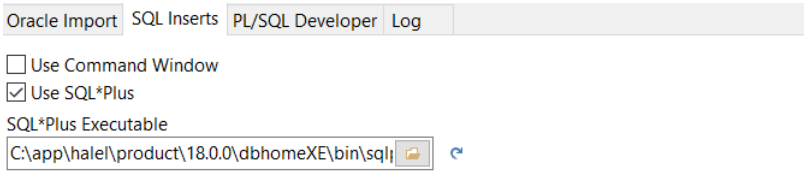
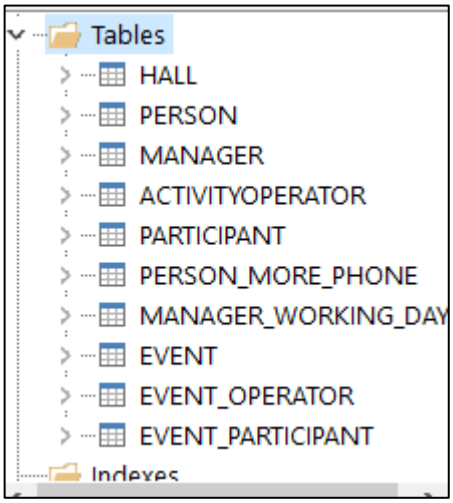
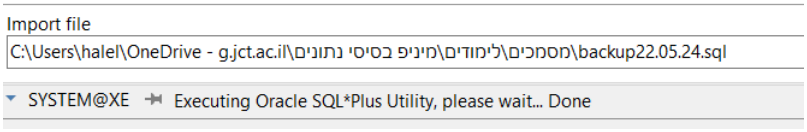
בס"ד

גיבוי ושחזור הטבלאות

גיבוי:



שחזור: