צילום וידאו

אירועים

מגישות:

שילת שרון 325541100

לאה דרך 214202921

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תיאור המערכת

ישויות:

Profession- מקצוע (צלם או מסריט ווידאו)

שדות: מספר מזהה, שם המקצוע.

Professional- בעל מקצוע. יש לו מקצוע יחיד.

שדות: מספר מזהה, שם פרטי, שם משפחה, טלפון, מייל, שנת התחלה, מחיר.

Client- לקוח

שדות: מספר מזהה, שם פרטי, שם משפחה, טלפון, מייל

PaymentMethod- שיטת תשלום. (אשראי/ מזומן/ העברה בנקאית/ צ'ק)

שדות: מספר מזהה, סוג תשלום.

Payment- תשלום. לתשלום יש אמצעי תשלום יחיד.

שדות: מספר מזהה, תאריך תשלום, סכום לתשלום.

Event- אירוע

שדות: מספר מזהה, תאריך אירוע, מקום.

CustomerOrder – הזמנה. מורכבת מכמה אנשי מקצוע וכמה תשלומים. שייכת לאירוע יחיד ולקוח יחיד.

שדות: מספר מזהה, תאריך הזמנה.

סוגי קשרים:

Work- קשר בין מקצוע לבעל מקצוע. לכל בעל מקצוע יכול להיות מקצוע יחיד.

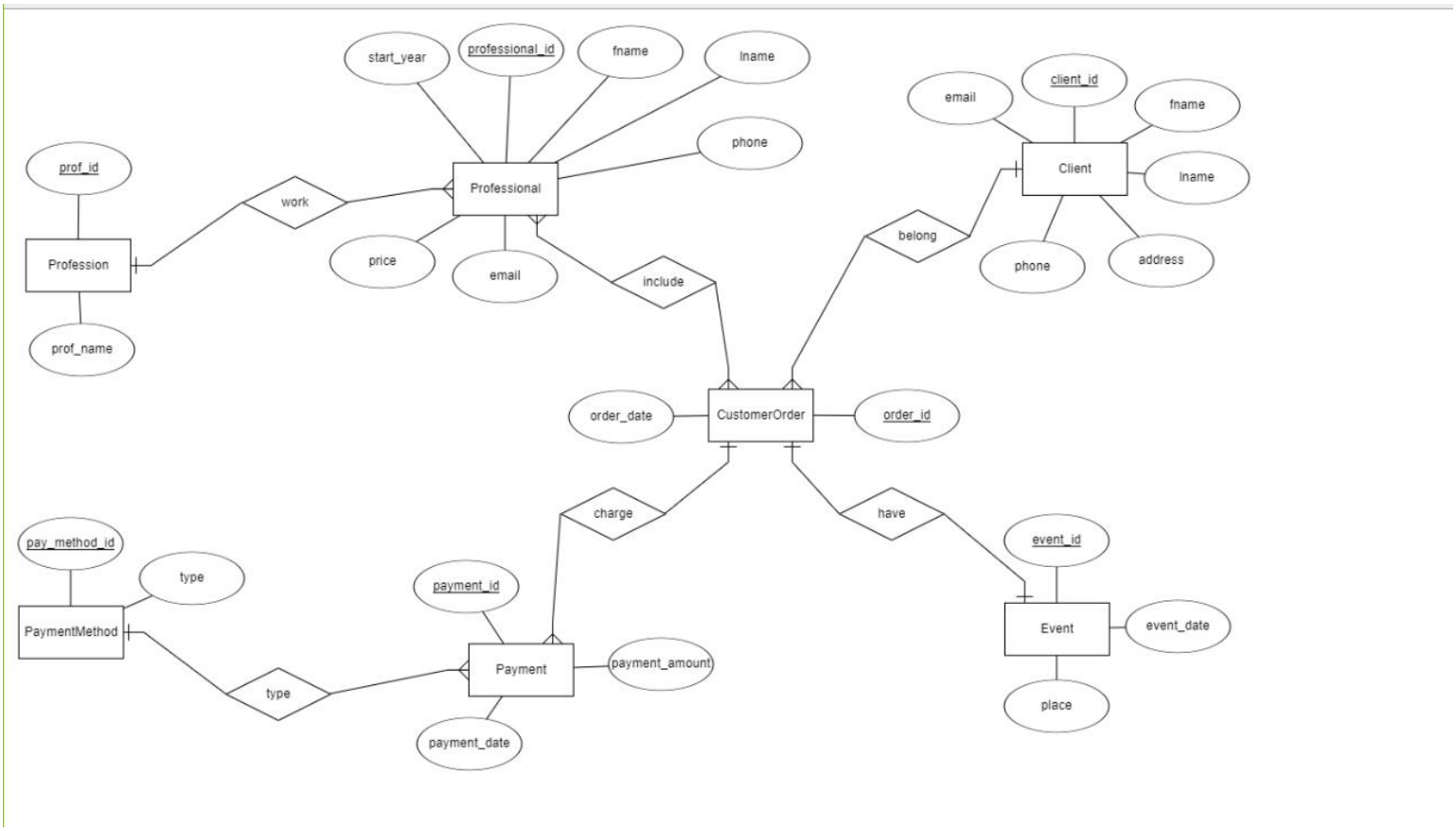
Belong- קשר בין הזמנה ללקוח. להזמנה יש לקוח אחד. ללקוח יכולות להיות כמה הזמנות.

Have- קשר בין הזמנה לאירוע. לכל הזמנה אירוע יחיד ולכל אירוע הזמנה יחידה.

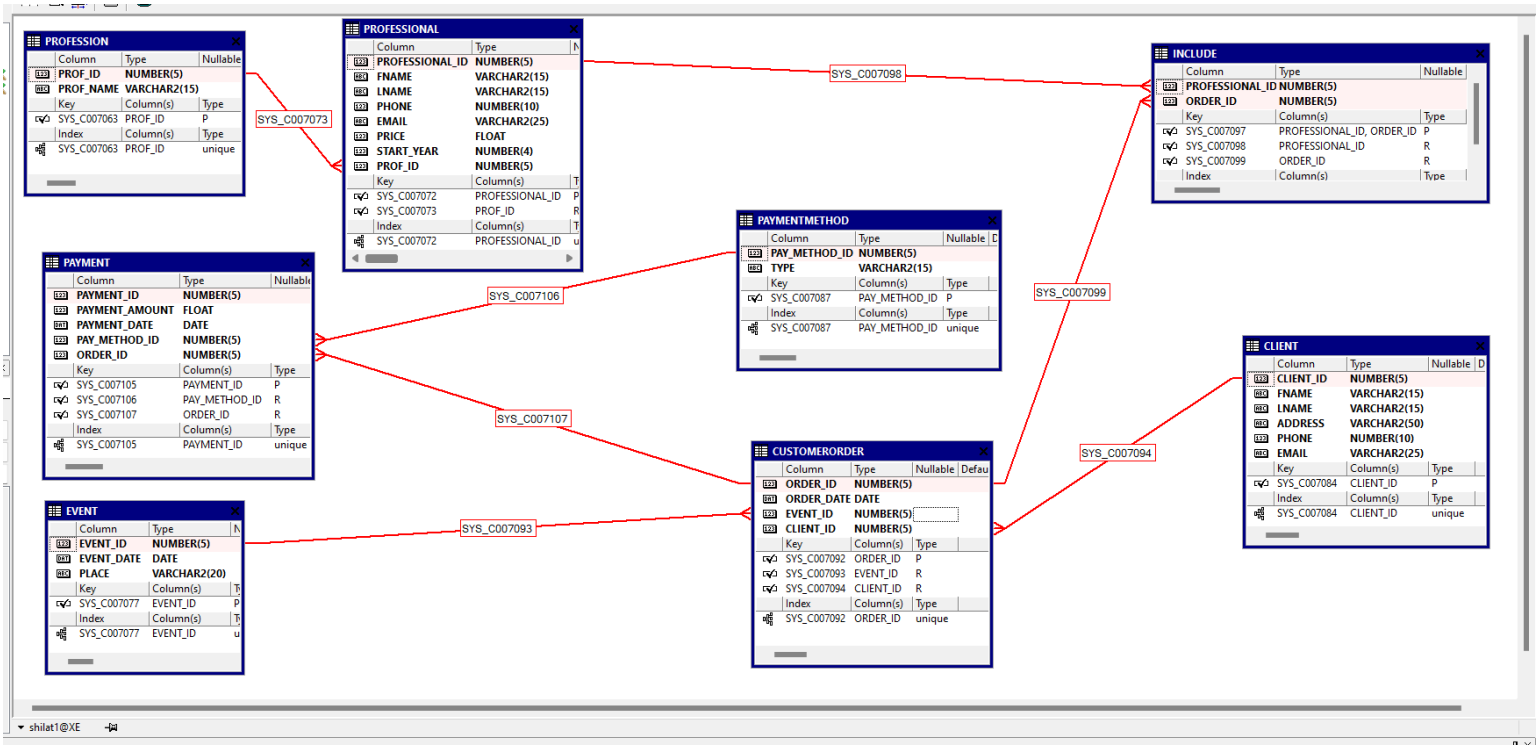
Charge- קשר בין הזמנה לתשלום. לכל הזמנה יתכנו מספר תשלומים. כל תשלום שייך להזמנה יחידה.

Type- קשר בין תשלום לסוג תשלום. לכל תשלום שיטת תשלום יחידה. שיטת תשלום יכולה להיות משותפת למספר תשלומים.

תרשים ERD


start_year
professional_id
fname
lname
phone
email
client_id
fname
Client
lname
prof_id
work
Professional
Profession
price
email
include
belong
phone
address
prof_name
order_date
CustomerOrder
order_id
charge
have
pay_method_id
type
payment_id
event_id
PaymentMethod
Payment
payment_amount
Event
event_date
type
place
payment_date

תרשים DSD


PROFESSION
Column Type Nullable
PROF_ID NUMBER(5)
PROF_NAME VARCHAR2(15)
Key Column(s) Type
SYS_C007063 PROF_ID P
Index Column(s) Type
SYS_C007063 PROF_ID unique
SYS_C007073
PROFESSIONAL
Column Type
PROFESSIONAL_ID NUMBER(5)
FNAME VARCHAR2(15)
LNAME VARCHAR2(15)
PHONE NUMBER(10)
EMAIL VARCHAR2(25)
PRICE FLOAT
START_YEAR NUMBER(4)
PROF_ID NUMBER(5)
Key Column(s)
SYS_C007072 PROFESSIONAL_ID
SYS_C007073 PROF_ID
Index Column(s)
SYS_C007072 PROFESSIONAL_ID
SYS_C007098
INCLUDE
Column Type Nullable
PROFESSIONAL_ID NUMBER(5)
ORDER_ID NUMBER(5)
Key Column(s) Type
SYS_C007097 PROFESSIONAL_ID, ORDER_ID P
SYS_C007098 PROFESSIONAL_ID R
SYS_C007099 ORDER_ID R
Index Column(s) Type
PAYMENTMETHOD
Column Type Nullable
PAY_METHOD_ID NUMBER(5)
TYPE VARCHAR2(15)
Key Column(s) Type
SYS_C007087 PAY_METHOD_ID P
Index Column(s) Type
SYS_C007087 PAY_METHOD_ID unique
PAYMENT
Column Type
PAYMENT_ID NUMBER(5)
PAYMENT_AMOUNT FLOAT
PAYMENT_DATE DATE
PAY_METHOD_ID NUMBER(5)
ORDER_ID NUMBER(5)
Key Column(s) Type
SYS_C007105 PAYMENT_ID P
SYS_C007106 PAY_METHOD_ID R
SYS_C007107 ORDER_ID R
Index Column(s) Type
SYS_C007105 PAYMENT_ID unique
SYS_C007106
SYS_C007107
SYS_C007099
CLIENT
Column Type Nullable
CLIENT_ID NUMBER(5)
FNAME VARCHAR2(15)
LNAME VARCHAR2(15)
ADDRESS VARCHAR2(50)
PHONE NUMBER(10)
EMAIL VARCHAR2(25)
Key Column(s) Type
SYS_C007084 CLIENT_ID P
Index Column(s) Type
SYS_C007084 CLIENT_ID unique
SYS_C007094
CUSTOMERORDER
Column Type Nullable
ORDER_ID NUMBER(5)
ORDER_DATE DATE
EVENT_ID NUMBER(5)
CLIENT_ID NUMBER(5)
Key Column(s) Type
SYS_C007092 ORDER_ID P
SYS_C007093 EVENT_ID R
SYS_C007094 CLIENT_ID R
Index Column(s) Type
SYS_C007092 ORDER_ID unique
EVENT
Column Type
EVENT_ID NUMBER(5)
EVENT_DATE DATE
PLACE VARCHAR2(20)
Key Column(s) Type
SYS_C007077 EVENT_ID P
Index Column(s) Type
SYS_C007077 EVENT_ID u
SYS_C007093
shilat1@XE

קבצי SQL

קובץ Create

```
CREATE TABLE Profession
(
  prof_id INT NOT NULL,
  prof_name INT NOT NULL,
  PRIMARY KEY (prof_id)
);

CREATE TABLE Professional
(
  professional_id INT NOT NULL,
  fname INT NOT NULL,
  lname INT NOT NULL,
  phone INT NOT NULL,
  email INT NOT NULL,
  price INT NOT NULL,
  start_year INT NOT NULL,
  prof_id INT NOT NULL,
  PRIMARY KEY (professional_id),
  FOREIGN KEY (prof_id) REFERENCES Profession(prof_id)
);

CREATE TABLE Event
(
  event_id INT NOT NULL,
  event_date INT NOT NULL,
  place INT NOT NULL,
  PRIMARY KEY (event_id)
);

CREATE TABLE Client
(
  client_id INT NOT NULL,
  fname INT NOT NULL,
  lname INT NOT NULL,
  address INT NOT NULL,
  phone INT NOT NULL,
  email INT NOT NULL,
  PRIMARY KEY (client_id)
);

CREATE TABLE PaymentMethod
(
  pay_method_id INT NOT NULL,
  type INT NOT NULL,
  PRIMARY KEY (pay_method_id)
);

CREATE TABLE CustomerOrder
(
  order_id INT NOT NULL,
  order_date INT NOT NULL,
  event_id INT NOT NULL,
  client_id INT NOT NULL,
  PRIMARY KEY (order_id),
```

```
  FOREIGN KEY (event_id) REFERENCES Event(event_id),
  FOREIGN KEY (client_id) REFERENCES Client(client_id)
);

CREATE TABLE include
(
  professional_id INT NOT NULL,
  order_id INT NOT NULL,
  PRIMARY KEY (professional_id, order_id),
  FOREIGN KEY (professional_id) REFERENCES
Professional(professional_id),
  FOREIGN KEY (order_id) REFERENCES CustomerOrder(order_id)
);

CREATE TABLE Payment
(
  payment_id INT NOT NULL,
  payment_amount INT NOT NULL,
  payment_date INT NOT NULL,
  pay_method_id INT NOT NULL,
  order_id INT NOT NULL,
  PRIMARY KEY (payment_id),
  FOREIGN KEY (pay_method_id) REFERENCES
PaymentMethod(pay_method_id),
  FOREIGN KEY (order_id) REFERENCES CustomerOrder(order_id)
                                                                    );
```

Drop קובץ

```
DROP TABLE Include;
DROP TABLE Payment;
DROP TABLE CustomerOrder;
DROP TABLE Event;
DROP TABLE Client;
DROP TABLE PaymentMethod;
DROP TABLE Professional;
DROP TABLE Profession;
```

Insert קובץ

```
insert into PROFESSION (prof_id, prof_name)
values (0, 'photographer');
insert into PROFESSION (prof_id, prof_name)
values (1, 'video');

insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (0, ' John', ' Smith', 511652243, ' john.smith@gmail.com',
37700, 2020, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (1, ' Paul', ' Smith', 583118533, ' paul.smith@gmail.com',
14600, 2015, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
```

```
values (2, ' Paul', ' Martinez', 511999596, '
paul.martinez@gmail.com', 7500, 2022, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (3, ' Katie', ' Miller', 573072267, ' katie.miller@gmail.com',
41400, 2005, 1);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (4, ' Sara', ' Hernandez', 506837826, '
sara.hernandez@gmail.com', 25700, 2009, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (5, ' Paul', ' Williams', 531004594, '
paul.williams@gmail.com', 19100, 2015, 1);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (6, ' Anna', ' Garcia', 578516792, ' anna.garcia@gmail.com',
41200, 2022, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (7, ' Alex', ' Martinez', 514172647, '
alex.martinez@gmail.com', 16200, 2000, 1);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (8, ' Katie', ' Smith', 571446153, ' katie.smith@gmail.com',
12200, 2018, 0);
insert into PROFESSIONAL (professional_id, fname, lname, phone,
email, price, start_year, prof_id)
values (9, ' Alex', ' Williams', 525793180, '
alex.williams@gmail.com', 33100, 2017, 0);

insert into PAYMENTMETHOD (pay_method_id, type)
values (0, 'Credit Card');
insert into PAYMENTMETHOD (pay_method_id, type)
values (1, 'Cash');
insert into PAYMENTMETHOD (pay_method_id, type)
values (2, 'PayPal');
insert into PAYMENTMETHOD (pay_method_id, type)
values (3, 'Bank Transfer');

insert into CLIENT (client_id, fname, lname, address, phone, email)
values (0, 'Arnold', 'Hornsby', '69 DeVita Ave', 582229278,
'arnold.hornsby@ads.com');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (1, 'Bruce', 'Baranski', '76 Robert Street', 533999149,
'bruce@hencie.com');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (2, 'Shannon', 'Weisz', '78 Kirsten Street', 586353849,
'shannon@typhoon.com');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (3, 'Bryan', 'Snipes', '81 Whitford Road', 593892633,
'bryans@spinnakerexplorati');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (4, 'Rip', 'Palmer', '836 Pablo Street', 577262923,
'r.palmer@jsa.dk');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (5, 'Rickie', 'Lapointe', '32 Child Blvd', 549347199,
'rickie.lapointe@vitacostc');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (6, 'Luis', 'Saucedo', '30 Dionne Road', 549629835,
'luis.saucedo@scheringplou');
```

```
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (7, 'Robbie', 'Santa Rosa', '65 Maury Road', 547235857,
'robbie.santarosa@kwraf.co');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (8, 'Merle', 'Ramirez', '19 Byrd Ave', 545275812,
'merler@consultants.uk');
insert into CLIENT (client_id, fname, lname, address, phone, email)
values (9, 'Patricia', 'Tolkan', '72nd Street', 532817583,
'patricia@egroup.br');

insert into EVENT (event_id, event_date, place)
values (0, to_date('07-12-2018', 'dd-mm-yyyy'), 'Banquet Hall');
insert into EVENT (event_id, event_date, place)
values (1, to_date('21-10-2011', 'dd-mm-yyyy'), 'Exhibition Hall');
insert into EVENT (event_id, event_date, place)
values (2, to_date('21-01-2020', 'dd-mm-yyyy'), 'Event Arena');
insert into EVENT (event_id, event_date, place)
values (3, to_date('27-01-2009', 'dd-mm-yyyy'), 'Exhibition Hall');
insert into EVENT (event_id, event_date, place)
values (4, to_date('14-04-2000', 'dd-mm-yyyy'), 'Grand Hall');
insert into EVENT (event_id, event_date, place)
values (5, to_date('26-10-2005', 'dd-mm-yyyy'), 'Grand Hall');
insert into EVENT (event_id, event_date, place)
values (6, to_date('17-02-2012', 'dd-mm-yyyy'), 'Banquet Hall');
insert into EVENT (event_id, event_date, place)
values (7, to_date('01-05-2003', 'dd-mm-yyyy'), 'Event Arena');
insert into EVENT (event_id, event_date, place)
values (8, to_date('27-02-2014', 'dd-mm-yyyy'), 'Grand Hall');
insert into EVENT (event_id, event_date, place)
values (9, to_date('05-08-2004', 'dd-mm-yyyy'), 'Event Arena');

insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (289, to_date('11-10-2022', 'dd-mm-yyyy'), 177, 59);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (290, to_date('06-01-2020', 'dd-mm-yyyy'), 224, 26);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (291, to_date('22-04-2024', 'dd-mm-yyyy'), 343, 220);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (292, to_date('03-01-2020', 'dd-mm-yyyy'), 314, 205);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (293, to_date('25-03-2020', 'dd-mm-yyyy'), 383, 68);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (294, to_date('20-08-2020', 'dd-mm-yyyy'), 121, 204);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (295, to_date('27-09-2022', 'dd-mm-yyyy'), 21, 351);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (296, to_date('23-03-2023', 'dd-mm-yyyy'), 160, 230);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (297, to_date('18-04-2022', 'dd-mm-yyyy'), 155, 27);
insert into CUSTOMERORDER (order_id, order_date, event_id, client_id)
values (298, to_date('11-01-2021', 'dd-mm-yyyy'), 22, 109);

insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (0, 45000, to_date('30-06-2021', 'dd-mm-yyyy'), 2, 0);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (1, 24000, to_date('05-04-2020', 'dd-mm-yyyy'), 1, 1);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (2, 25000, to_date('27-12-2022', 'dd-mm-yyyy'), 2, 2);
```

```
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (3, 43000, to_date('03-11-2020', 'dd-mm-yyyy'), 2, 3);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (4, 24000, to_date('09-05-2021', 'dd-mm-yyyy'), 1, 4);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (5, 16000, to_date('29-08-2023', 'dd-mm-yyyy'), 1, 5);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (6, 17000, to_date('17-06-2020', 'dd-mm-yyyy'), 1, 6);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (7, 3000, to_date('21-09-2020', 'dd-mm-yyyy'), 0, 7);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (8, 1000, to_date('22-04-2022', 'dd-mm-yyyy'), 3, 8);
insert into PAYMENT (payment_id, payment_amount, payment_date,
pay_method_id, order_id)
values (9, 20000, to_date('27-07-2021', 'dd-mm-yyyy'), 3, 9);

insert into INCLUDE (professional_id, order_id)
values (0, 13);
insert into INCLUDE (professional_id, order_id)
values (0, 87);
insert into INCLUDE (professional_id, order_id)
values (1, 162);
insert into INCLUDE (professional_id, order_id)
values (2, 285);
insert into INCLUDE (professional_id, order_id)
values (5, 337);
insert into INCLUDE (professional_id, order_id)
values (7, 236);
insert into INCLUDE (professional_id, order_id)
values (10, 384);
insert into INCLUDE (professional_id, order_id)
values (11, 380);
insert into INCLUDE (professional_id, order_id)
values (11, 392);
insert into INCLUDE (professional_id, order_id)
values (14, 108);
```

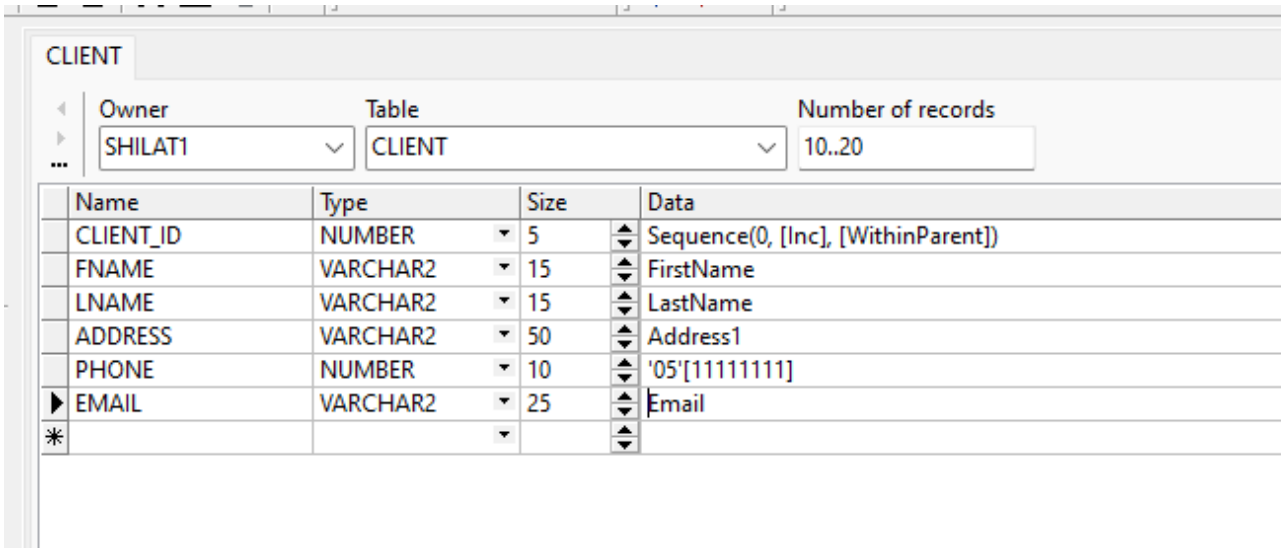
קובץ SelectAll

```
Select * from Profession;
Select count(*) from Profession;
Select * from Professional;
Select count(*) from Professional;
Select * from PaymentMethod;
Select count(*) from PaymentMethod;
Select * from Client;
Select count(*) from Client;
Select * from Event;
Select count(*) from Event;
Select * from CustomerOrder;
Select count(*) from CustomerOrder;
Select * from Payment;
```

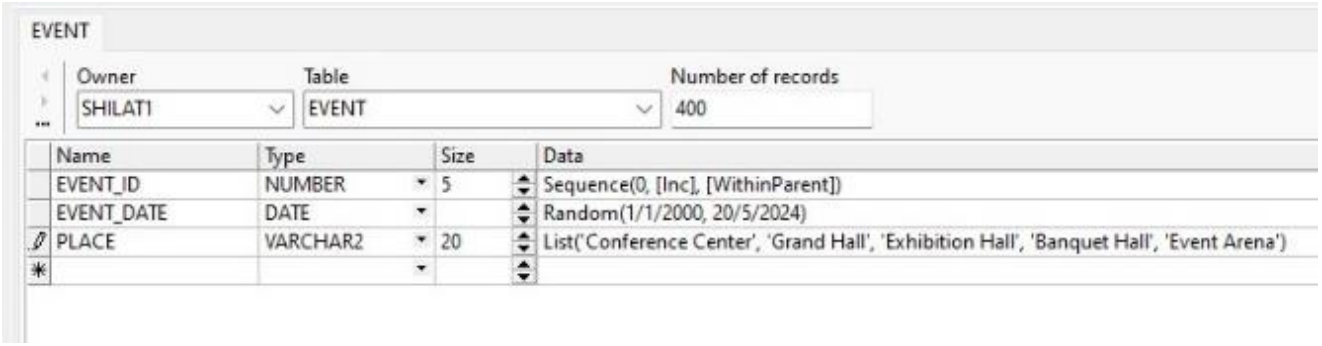
```
Select count(*) from Payment;
Select * from Include;
Select count(*) from Include;
```

Data Generator

Client טבלת



Event טבלת



טבלת CustomerOrder

CUSTOMERORDER

Owner: SHILAT1 | Table: CUSTOMERORDER | Number of records: 400

Name	Type	Size	Data
ORDER_ID	NUMBER	5	Sequence(0, [Inc], [WithinParent])
ORDER_DATE	DATE		Random(1/1/2000,20/5/2024)
EVENT_ID	NUMBER	5	List(select event_id from Event)
CLIENT_ID	NUMBER	5	List(select client_id from Client)

טבלת Payment

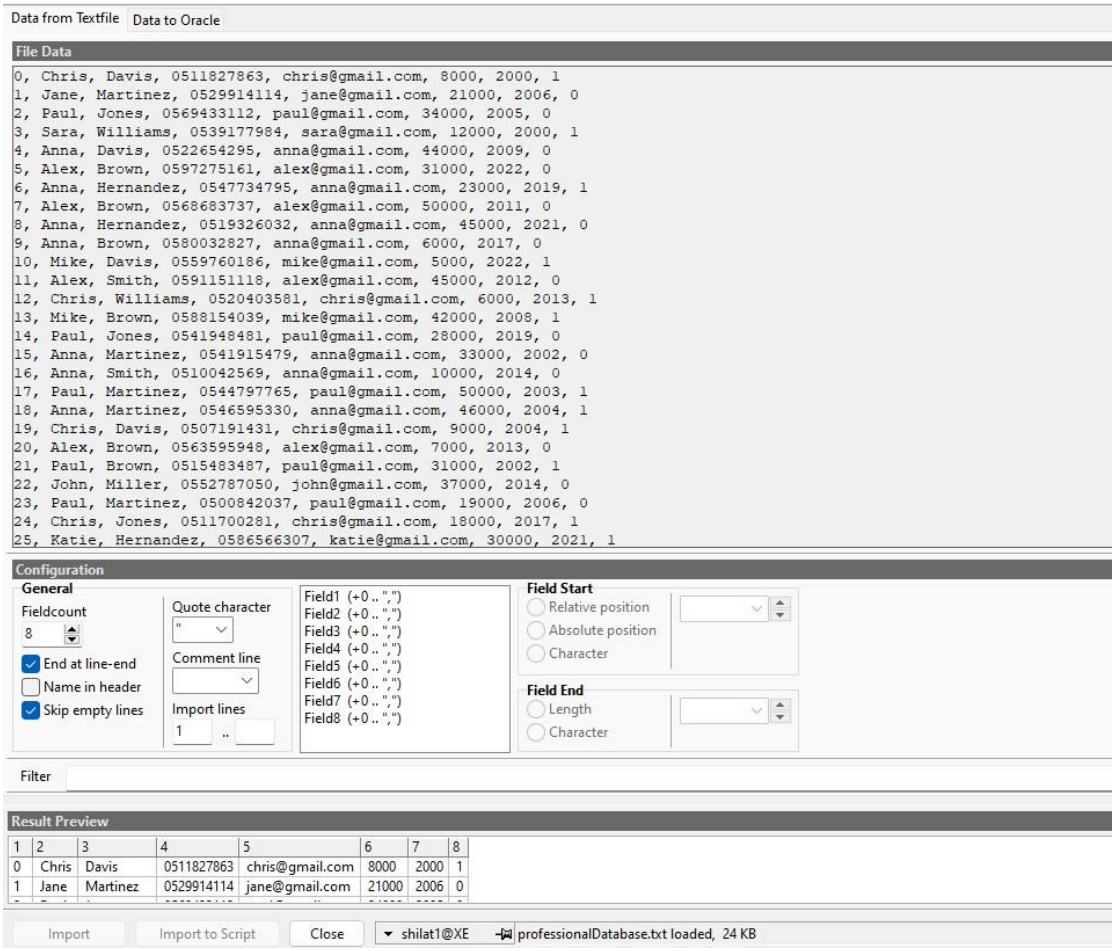
PAYMENT

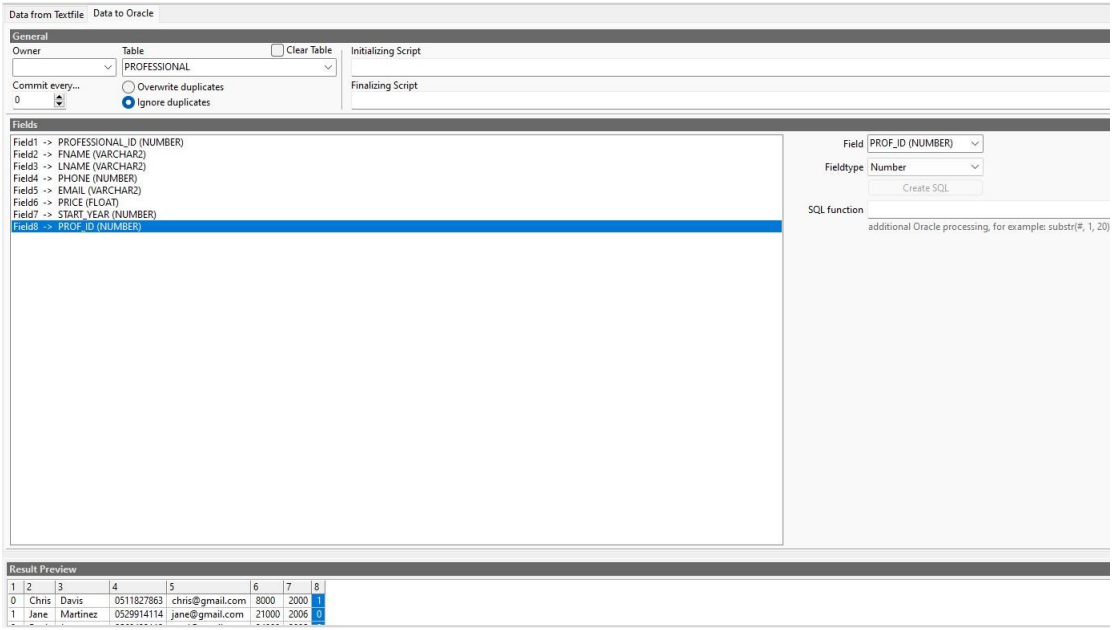
Owner: SHILAT1 | Table: PAYMENT | Number of records: 400

Name	Type	Size	Data
PAYMENT_ID	NUMBER	5	Sequence(0, [Inc], [WithinParent])
PAYMENT_AMOUNT	FLOAT	22	List(select price from Professional)
PAYMENT_DATE	DATE		Random(1/1/2020, 20/5/2024)
PAY_METHOD_ID	NUMBER	5	List(select pay_method_id from PaymentMethod)
ORDER_ID	NUMBER	5	Sequence(0, [Inc], [WithinParent])

Text Importer

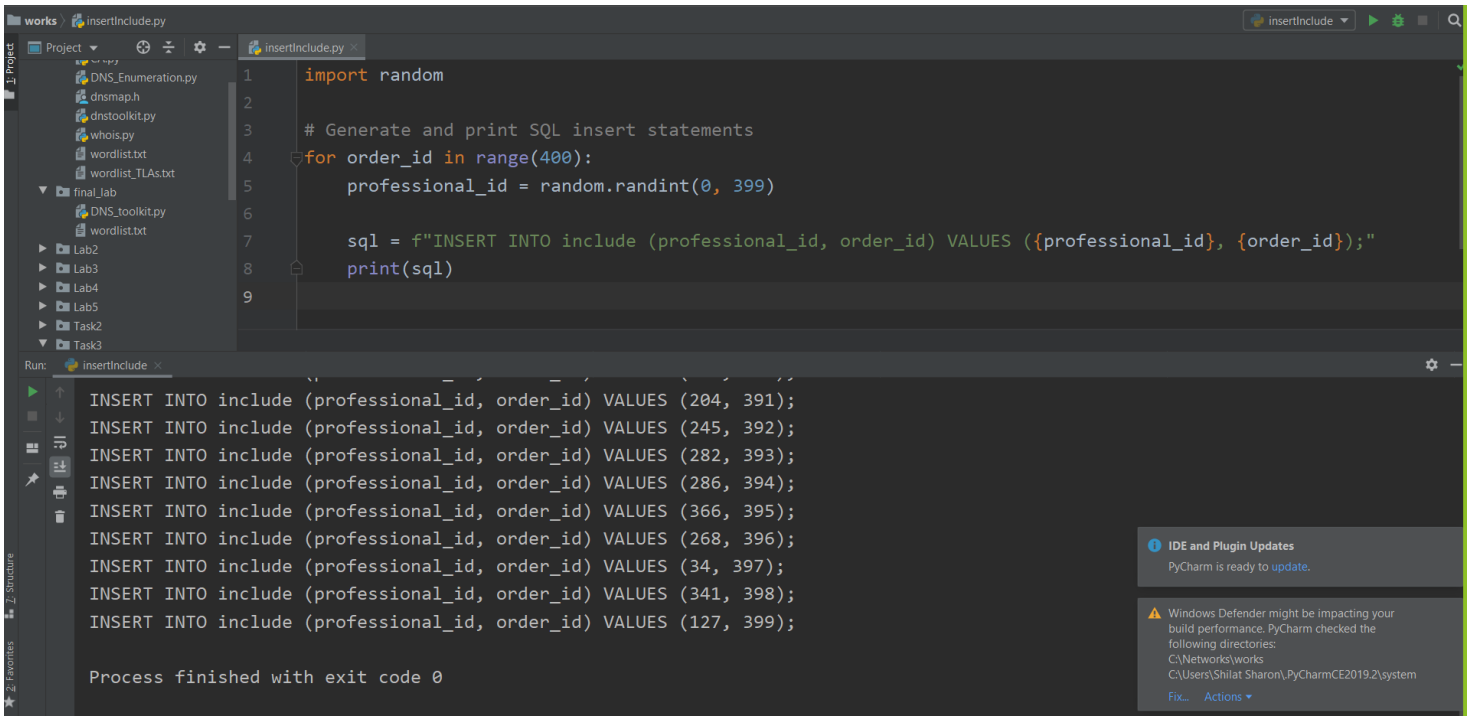
Professional טבלת





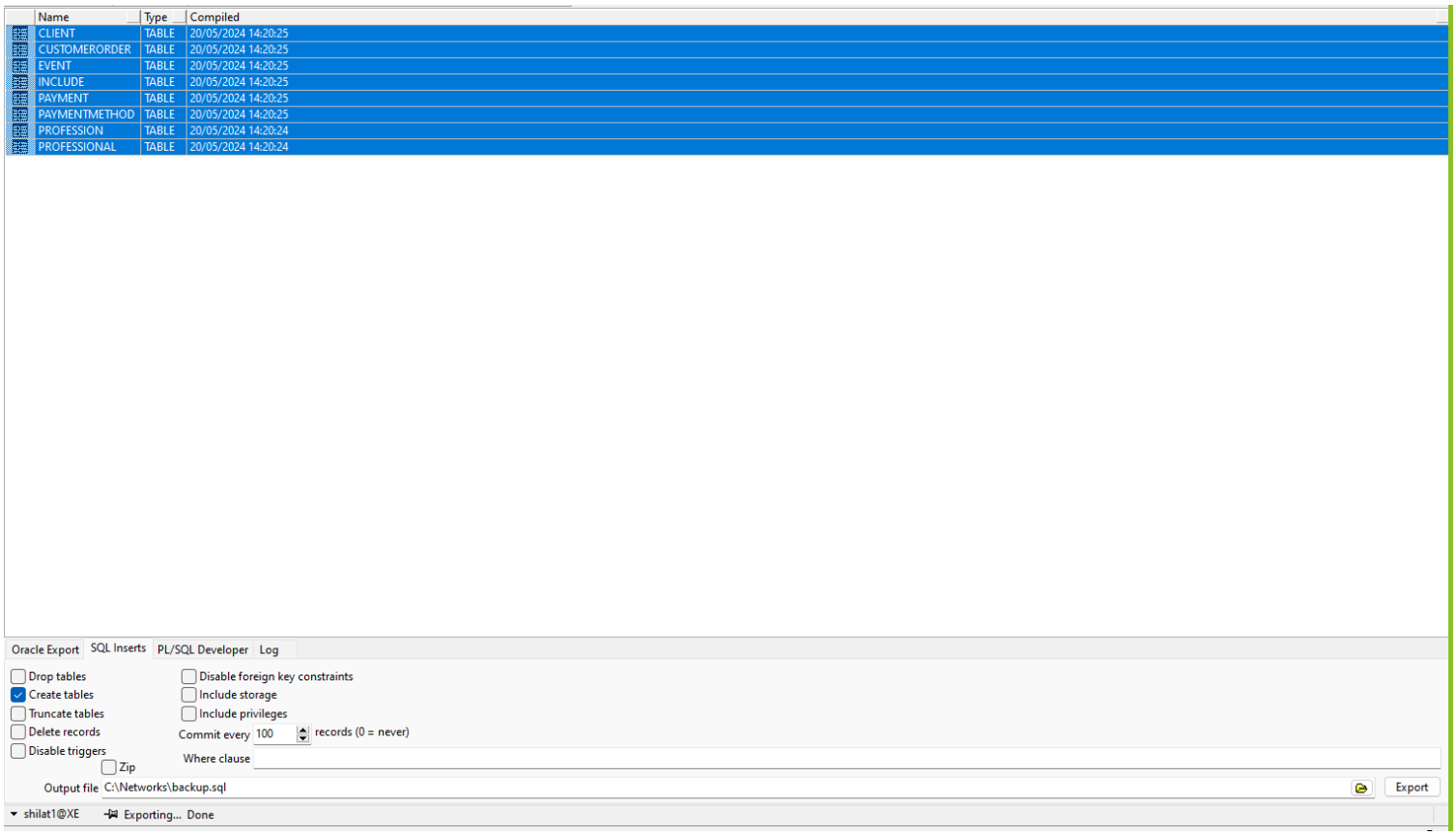
Programming

Include טבלת



גיבוי ושחזור

שיטת SQL Insert



פקודת desc

```
Connected to Oracle Database 11g Express Edition Release 11.2.0.2.0
Connected as shilat1@XE

SQL> desc Profession
Name      Type         Nullable Default Comments
--------- ------------ -------- ------- --------
PROF_ID   NUMBER(5)
PROF_NAME VARCHAR2(15)

SQL> desc Professional
Name             Type         Nullable Default Comments
---------------- ------------ -------- ------- --------
PROFESSIONAL_ID NUMBER(5)
FNAME            VARCHAR2(15)
LNAME            VARCHAR2(15)
PHONE            NUMBER(10)
EMAIL            VARCHAR2(25)
PRICE            FLOAT
START_YEAR       NUMBER(4)
PROF_ID          NUMBER(5)

SQL> desc Event
Name       Type         Nullable Default Comments
---------- ------------ -------- ------- --------
EVENT_ID   NUMBER(5)
EVENT_DATE DATE
PLACE      VARCHAR2(20)

SQL> desc Client
Name      Type         Nullable Default Comments
--------- ------------ -------- ------- --------
CLIENT_ID NUMBER(5)
FNAME     VARCHAR2(15)
LNAME     VARCHAR2(15)
ADDRESS   VARCHAR2(50)
PHONE     NUMBER(10)
EMAIL     VARCHAR2(25)

SQL> desc PaymentMethod
Name           Type         Nullable Default Comments
-------------- ------------ -------- ------- --------
PAY_METHOD_ID NUMBER(5)
TYPE           VARCHAR2(15)
```

```
SQL> desc CustomerOrder
Name       Type      Nullable Default Comments
---------- --------- -------- ------- --------
ORDER_ID   NUMBER(5)
ORDER_DATE DATE
EVENT_ID   NUMBER(5)
CLIENT_ID  NUMBER(5)

SQL> desc Include
Name            Type      Nullable Default Comments
--------------- --------- -------- ------- --------
PROFESSIONAL_ID NUMBER(5)
ORDER_ID        NUMBER(5)

SQL> desc Payment
Name           Type      Nullable Default Comments
-------------- --------- -------- ------- --------
PAYMENT_ID     NUMBER(5)
PAYMENT_AMOUNT FLOAT
PAYMENT_DATE   DATE
PAY_METHOD_ID  NUMBER(5)
ORDER_ID       NUMBER(5)
```