

## **מיני פרויקט בבסיסי נתונים**

**שם הארגון: חנות**

**שם האגף: נשים**

## **מגישות:**

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## מיני פרויקט בבסיסי נתונים

בפרויקט זה נממש מערכת ניהול מידע עבור חנות. המערכת מכילה ישויות שונות וקשרים ביניהם על מנת למפות את כל המידע בצורה מיטבית. מטרת הפרויקט היא לעזור לנהל את החנות בצורה יעילה ומתועדת היטב.

הישויות במערכת והקשרים ביניהם:

לקוחות – אנשים שקונים בחנות

עובדים – אנשים העובדים בחנות

ספקים – ספקי סחורה לחנות

מוצרים – המוצרים הנמכרים בחנות

קטגוריות – שמות הקטגוריות שעל פיהן נמיון את המוצרים שבחנות. לכל מוצר יש קטגוריה אחת לפחות.

הזמנות – הזמנת מוצרים חדשים בין העובדים לספקים

רכישות – רכישת מוצרים על ידי הלקוחות מהעובדים

### Entities:

Client = Client\_ID, Client\_Name, Is\_Club\_Member

Worker = Worker\_Id, Worker\_Name, Start\_of\_Work\_Date

Supplier = Supplier\_Id, Supplier\_Name, Region

Products = Product\_Id, Product\_Name, Quantity

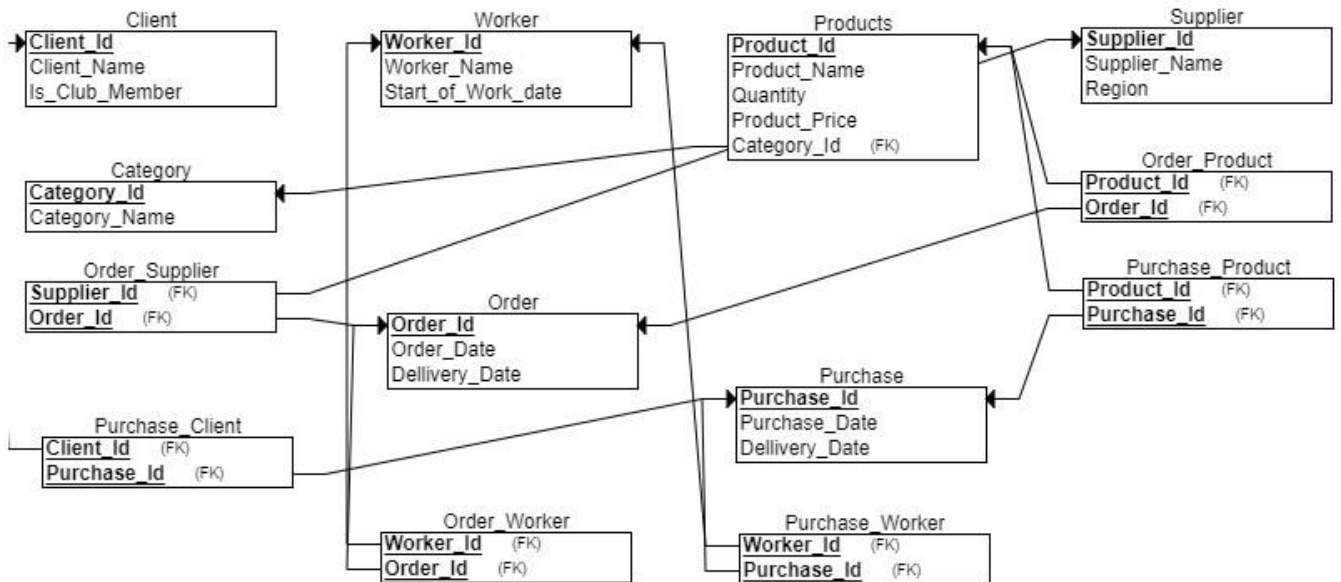
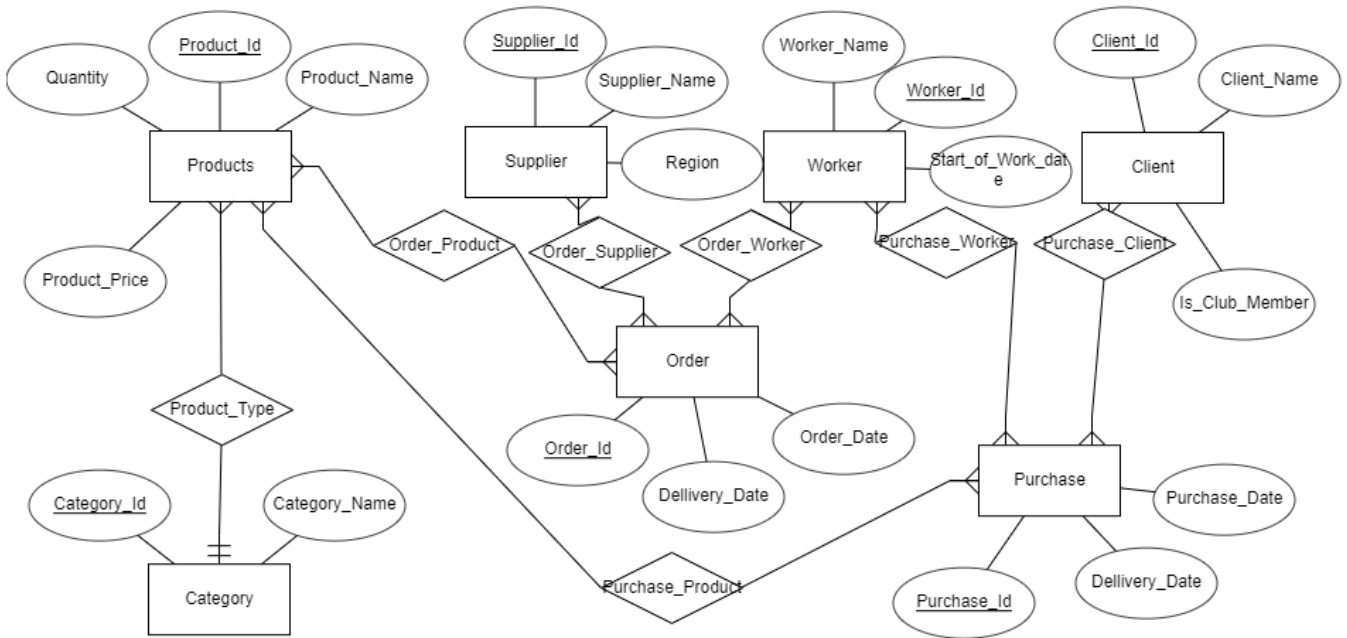
Category = Category\_Id, Category\_Name

Order = Order\_Id, Order\_Date, Delivery\_Date, Quantity

Purchase = Purchase\_Id, Purchase\_Date, Delivery\_Date, Quantity

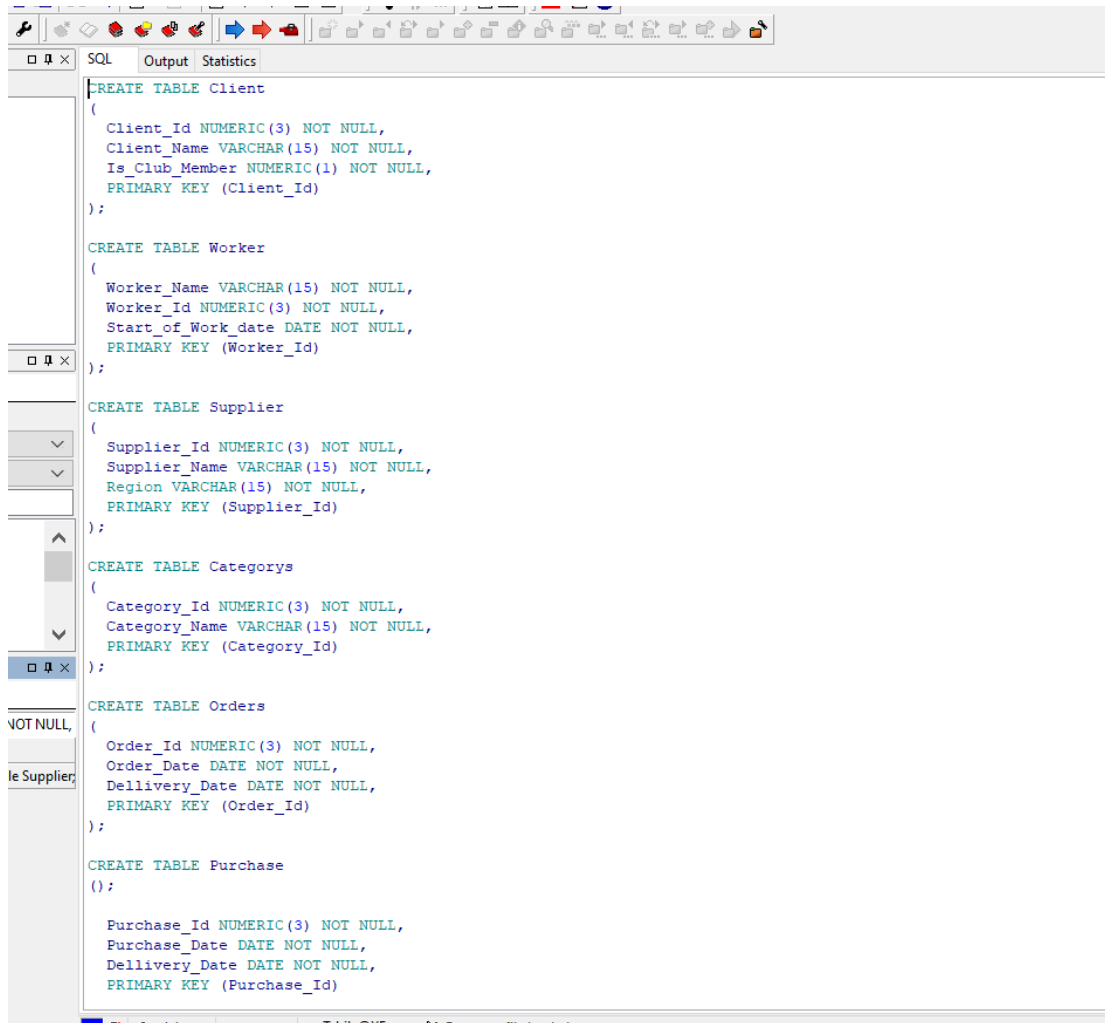
# מיני פרויקט בבסיסי נתונים

## ERD Diagram



# מיני פרויקט בבסיסי נתונים

יצירת הטבלאות:



```
CREATE TABLE Client
(
  Client_Id NUMERIC(3) NOT NULL,
  Client_Name VARCHAR(15) NOT NULL,
  Is_Club_Member NUMERIC(1) NOT NULL,
  PRIMARY KEY (Client_Id)
);

CREATE TABLE Worker
(
  Worker_Name VARCHAR(15) NOT NULL,
  Worker_Id NUMERIC(3) NOT NULL,
  Start_of_Work_date DATE NOT NULL,
  PRIMARY KEY (Worker_Id)
);

CREATE TABLE Supplier
(
  Supplier_Id NUMERIC(3) NOT NULL,
  Supplier_Name VARCHAR(15) NOT NULL,
  Region VARCHAR(15) NOT NULL,
  PRIMARY KEY (Supplier_Id)
);

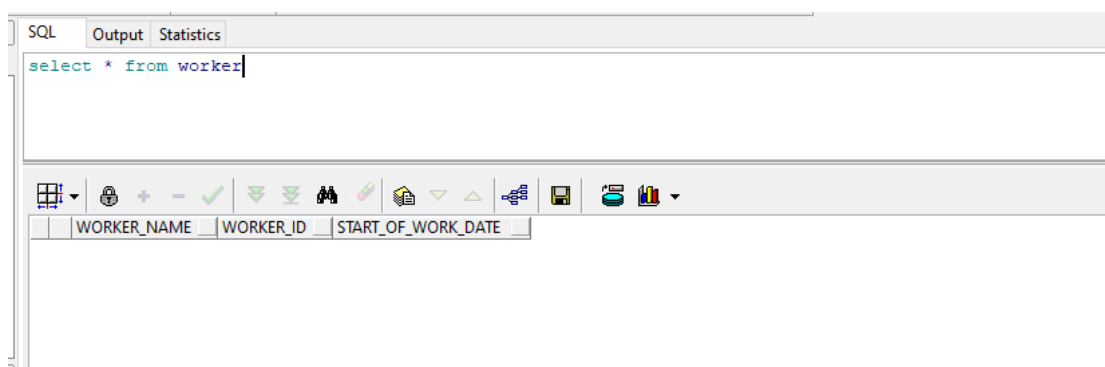
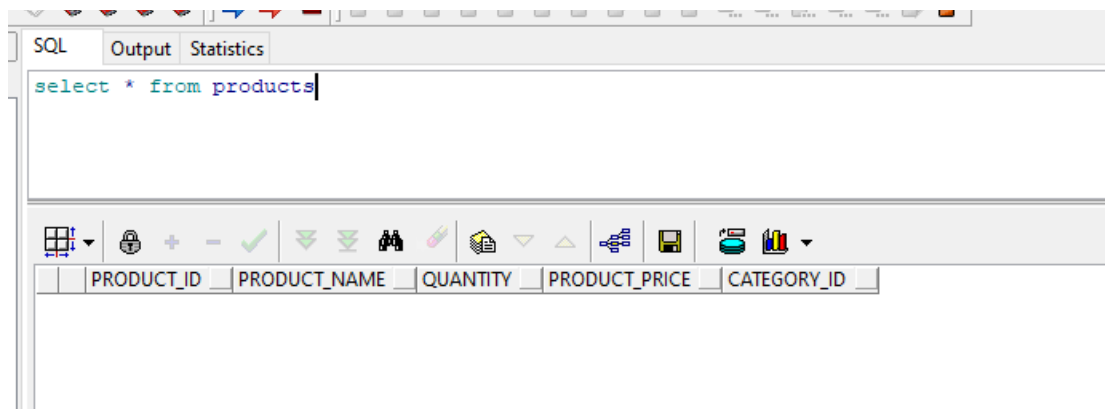
CREATE TABLE Categorys
(
  Category_Id NUMERIC(3) NOT NULL,
  Category_Name VARCHAR(15) NOT NULL,
  PRIMARY KEY (Category_Id)
);

CREATE TABLE Orders
(
  Order_Id NUMERIC(3) NOT NULL,
  Order_Date DATE NOT NULL,
  Dellivery_Date DATE NOT NULL,
  PRIMARY KEY (Order_Id)
);

CREATE TABLE Purchase
(
  Purchase_Id NUMERIC(3) NOT NULL,
  Purchase_Date DATE NOT NULL,
  Dellivery_Date DATE NOT NULL,
  PRIMARY KEY (Purchase_Id)
);
```

# מיני פרויקט בבסיסי נתונים

בדקנו שאכן הטבלאות נוצרו על ידי הרצה הסקריפט הזה:



# מיני פרויקט בבסיסי נתונים

פקודת DESC:

```
Command Window - New
Dialog Editor
Connected to Oracle Database 11g Express Edition Release 11.2.0.2.0
Connected as Tehila@XE

SQL> DESC ORDERS;
Name          Type          Nullable Default Comments
-----
ORDER_ID      NUMBER(3)
ORDER_DATE    DATE
DELLIVERY_DATE DATE

SQL> DESC CLIENT;
Name          Type          Nullable Default Comments
-----
CLIENT_ID     NUMBER(3)
CLIENT_NAME   VARCHAR2(15)
IS_CLUB_MEMBER NUMBER(1)

SQL> DESC PRODUCTS;
Name          Type          Nullable Default Comments
-----
PRODUCT_ID    NUMBER(3)
PRODUCT_NAME  VARCHAR2(15)
QUANTITY      NUMBER(3)
PRODUCT_PRICE NUMBER(3)
CATEGORY_ID   NUMBER(3)

SQL> |
```

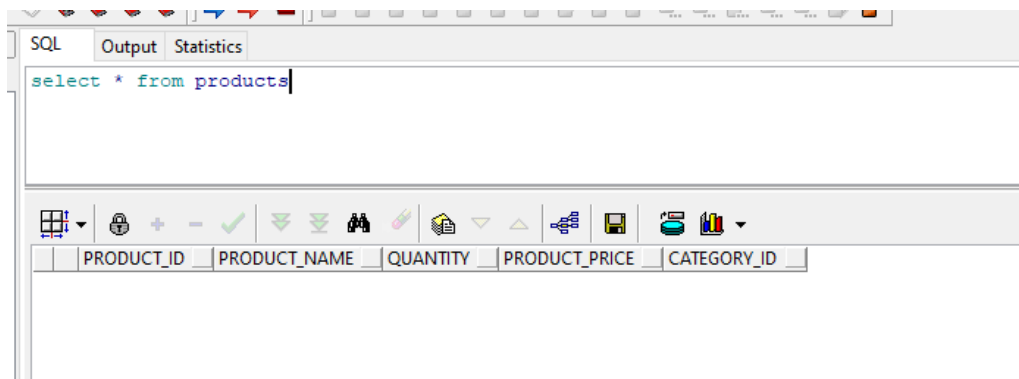
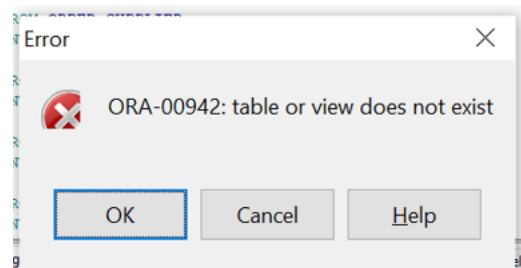
# מיני פרויקט בבסיסי נתונים

יצירת קובץ DROP\_TABLE:

כמובן על פי הסדר כך שהטבלאות התלויות בטבלאות אחרות נמחקות קודם

```
SQL Output Statistics
drop table Order_Product;
drop table Purchase_Product;
drop table Purchase_Client;
drop table Order_Supplier;
drop table Order_Worker;
drop table Purchase_Worker;
drop table Client;
drop table Worker;
drop table Supplier;
drop table Orders;
drop table Purchase;
drop table Products;
drop table Categorys;
```

בדקנו שהטבלאות נמחקות ולאחר מכן יצרנו אותן שוב מחדש



# מיני פרויקט בבסיסי נתונים

## יצירת קובץ SELECT

```
SQL Window - New
SQL Output Statistics
SELECT * FROM CATEGORY;
SELECT COUNT(*) FROM CATEGORY;

SELECT * FROM CLIENT;
SELECT COUNT(*) FROM CLIENT;

SELECT * FROM ORDER_PRODUCT;
SELECT COUNT(*) FROM ORDER_PRODUCT;

SELECT * FROM ORDERS;
SELECT COUNT(*) FROM ORDERS;

SELECT * FROM ORDER_SUPPLIER;
SELECT COUNT(*) FROM ORDER_SUPPLIER;

SELECT * FROM ORDER_WORKER;
SELECT COUNT(*) FROM ORDER_WORKER;

SELECT * FROM PRODUCTS;
SELECT COUNT(*) FROM PRODUCTS;

SELECT * FROM PURCHASE;
SELECT COUNT(*) FROM PURCHASE;

SELECT * FROM PURCHASE_CLIENT;
SELECT COUNT(*) FROM PURCHASE_CLIENT;

SELECT * FROM PURCHASE_PRODUCT;
SELECT COUNT(*) FROM PURCHASE_PRODUCT;

SELECT * FROM PURCHASE_WORKER;
SELECT COUNT(*) FROM PURCHASE_WORKER;

SELECT * FROM SUPPLIER;
SELECT COUNT(*) FROM SUPPLIER;

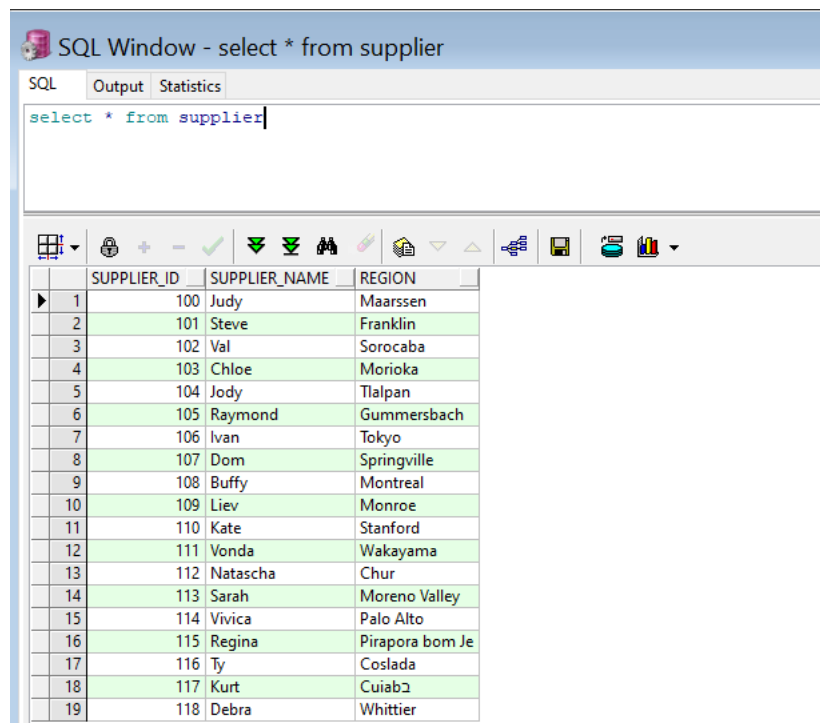
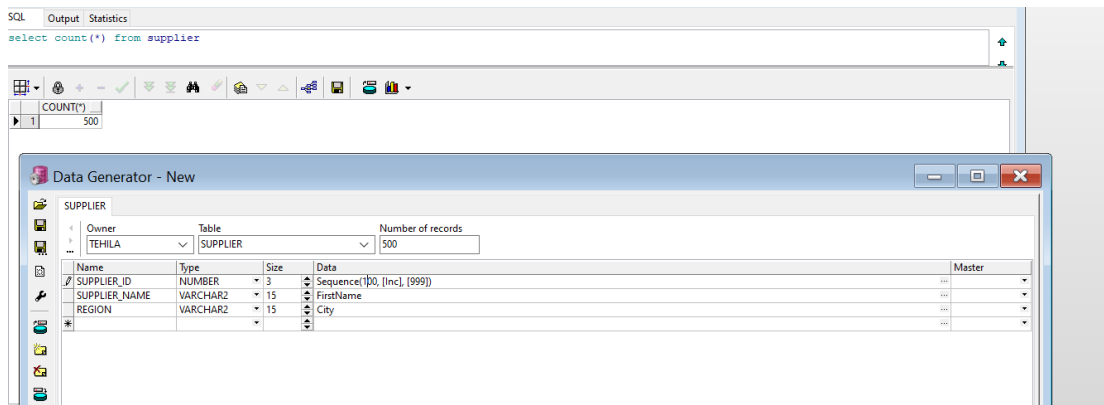
SELECT * FROM WORKER;
SELECT COUNT(*) FROM WORKER;
```



# מיני פרויקט בבסיסי נתונים

הכנסת נתונים על ידי שלושת הדרכים המבוקשות:

## 1. על ידי DATA GENERATOR:



# מיני פרויקט בבסיסי נתונים

## 2. על ידי קוד בפיתון ופקודות INSERT:

```
def generate_insert_statement(existing_ids):
    purchase_id = generate_unique_purchase_id(existing_ids)
    existing_ids.add(purchase_id)
    purchase_date = generate_random_date()
    delivery_date = generate_random_date()
    return f"INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES({purchase_id}, (TO_DATE('{"purchase_id}"', 'YYYY/MM/DD')),"{purchase_date}", ('{delivery_date}'))"

if __name__ == "__main__":
    # Set to keep track of existing IDs
    existing_ids = set()

    # Generate multiple insert statements
    for _ in range(400): # Change the range to generate more or fewer statements
        print(generate_insert_statement(existing_ids))
```

```
"C:\Users\Tehila Benezra\PycharmProjects\test2022b\venv\Scripts\python.exe" C:\assembly\xordll.py
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(568, (TO_DATE('2027/10/03', 'YYYY/MM/DD')), (TO_DATE('2030/07/04', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(949, (TO_DATE('2025/07/29', 'YYYY/MM/DD')), (TO_DATE('2024/06/18', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(207, (TO_DATE('2024/01/29', 'YYYY/MM/DD')), (TO_DATE('2028/10/27', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(248, (TO_DATE('2025/06/08', 'YYYY/MM/DD')), (TO_DATE('2030/08/27', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(668, (TO_DATE('2027/12/27', 'YYYY/MM/DD')), (TO_DATE('2029/03/19', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(740, (TO_DATE('2030/08/19', 'YYYY/MM/DD')), (TO_DATE('2025/07/25', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(304, (TO_DATE('2025/07/25', 'YYYY/MM/DD')), (TO_DATE('2028/05/30', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(960, (TO_DATE('2027/11/23', 'YYYY/MM/DD')), (TO_DATE('2026/07/31', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(751, (TO_DATE('2026/01/11', 'YYYY/MM/DD')), (TO_DATE('2028/03/24', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(799, (TO_DATE('2028/07/10', 'YYYY/MM/DD')), (TO_DATE('2030/02/01', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(829, (TO_DATE('2026/01/12', 'YYYY/MM/DD')), (TO_DATE('2024/05/06', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(643, (TO_DATE('2029/09/11', 'YYYY/MM/DD')), (TO_DATE('2026/09/21', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(880, (TO_DATE('2028/08/07', 'YYYY/MM/DD')), (TO_DATE('2030/09/30', 'YYYY/MM/DD')));
INSERT INTO TEHILA.purchase(PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE) VALUES(858, (TO_DATE('2029/11/19', 'YYYY/MM/DD')), (TO_DATE('2024/10/29', 'YYYY/MM/DD')));
```

### SQL Window - New

```
SQL Output Statistics
insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (604, to_date('27-03-2025', 'dd-mm-yyyy'), to_date('16-10-2027', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (319, to_date('08-02-2025', 'dd-mm-yyyy'), to_date('02-05-2030', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (348, to_date('28-03-2025', 'dd-mm-yyyy'), to_date('27-01-2025', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (179, to_date('15-08-2025', 'dd-mm-yyyy'), to_date('14-08-2027', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (388, to_date('23-12-2026', 'dd-mm-yyyy'), to_date('07-05-2029', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (863, to_date('24-07-2025', 'dd-mm-yyyy'), to_date('14-03-2026', 'dd-mm-yyyy'));

insert into purchase (PURCHASE_ID, PURCHASE_DATE, DELIVERY_DATE)
values (116, to_date('21-05-2029', 'dd-mm-yyyy'), to_date('23-12-2025', 'dd-mm-yyyy'));
```

```
SQL Output Statistics
select * from purchase
```

	PURCHASE_ID	PURCHASE_DATE	DELIVERY_DATE
1	604	27/03/2025	16/10/2027
2	319	08/02/2025	02/05/2030
3	348	28/03/2025	27/01/2025
4	179	15/08/2025	14/08/2027
5	388	23/12/2026	07/05/2029
6	863	24/07/2025	14/03/2026
7	116	21/05/2029	23/12/2025
8	814	22/07/2029	05/08/2026
9	474	04/01/2024	01/06/2024
10	436	02/08/2028	21/10/2024
11	339	11/09/2025	17/01/2030
12	464	19/11/2028	06/02/2025
13	676	29/05/2025	20/01/2030

# מיני פרויקט בבסיסי נתונים

## 3. מקובץ:

E	D	C	B	A	
		IS_CLUB	CLIENT_NAME	CLIENT_ID	1
		1	Rosanne	627	2
		1	Gwyneth	496	3
		0	Larry	818	4
		0	Joey	206	5
		0	Eliza	563	6
		1	Robin	126	7
		1	Gina	615	8
		0	Nastassja	551	9
		0	Angela	592	10
		0	Domingo	898	11
		1	Adam	700	12
		0	Simon	727	13
		0	Leon	115	14
		1	Anita	349	15
		1	Lauren	244	16
		0	Henry	487	17
		1	Famke	685	18
		0	Mia	462	19
		0	Celia	544	20
		0	Kevn	193	21
		0	Jack	951	22

Text Importer - Client.csv

Data from Textfile | Data to Oracle

**General**

Owner: TEHILA | Table: CLIENT | ☐ Clear Table

Commit every...: 100 | ☒ Overwrite duplicates | ☐ Ignore duplicates

Initializing Script:  ...

Finalizing Script:  ...

**Fields**

Field1 CLIENT\_ID -> CLIENT\_ID  
Field2 CLIENT\_NAME -> CLIENT\_NAME  
Field3 IS\_CLUB\_MEMBER -> IS\_CLUB\_ME

Field:  | Fieldtype:  | Create SQL:

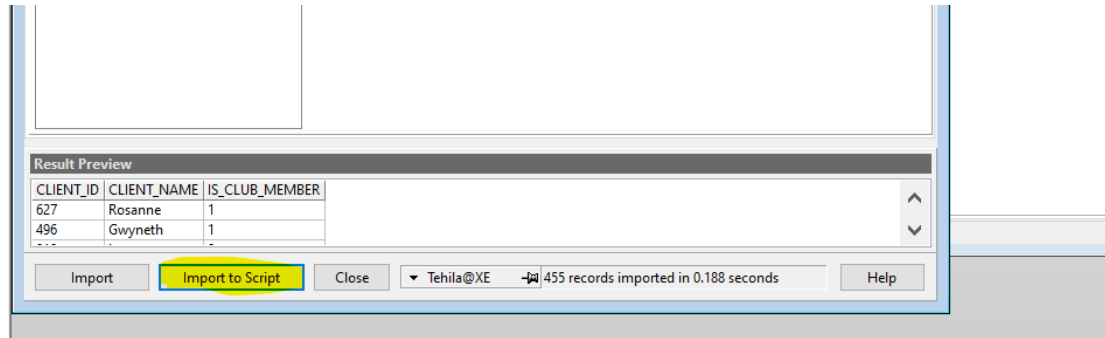
SQL function:  ...  
additional Oracle processing, for example: substr(#, 1, 20)

**Result Preview**

CLIENT_ID	CLIENT_NAME	IS_CLUB_MEMBER
627	Rosanne	1
496	Gwyneth	1

Import | Import to Script | Close | Tehila@XE | Client.csv loaded, 8 KB | Help

## מיני פרויקט בבסיסי נתונים



```
SQL Output Statistics

insert into tehila.client (client_id, client_name, is_club_member)
values (627, 'Rosanne', 1);

insert into tehila.client (client_id, client_name, is_club_member)
values (496, 'Gwyneth', 1);

insert into tehila.client (client_id, client_name, is_club_member)
values (818, 'Larry', 0);

insert into tehila.client (client_id, client_name, is_club_member)
values (206, 'Joey', 0);

insert into tehila.client (client_id, client_name, is_club_member)
values (563, 'Eliza', 0);

insert into tehila.client (client_id, client_name, is_club_member)
values (126, 'Robin', 1);

insert into tehila.client (client_id, client_name, is_club_member)
values (615, 'Gina', 1);

insert into tehila.client (client_id, client_name, is_club_member)
values (551, 'Nastassja', 0);

insert into tehila.client (client_id, client_name, is_club_member)
values (592, 'Angela', 0);
```

The screenshot shows an 'SQL Window - SELECT \* FROM CLIENT'. The window has tabs for 'SQL', 'Output', and 'Statistics'. The 'SQL' tab is active, showing the query 'SELECT \* FROM CLIENT'. Below the query, there is a toolbar with various icons. The 'Output' tab is selected, displaying a table with the following data:

	CLIENT_ID	CLIENT_NAME	IS_CLUB_MEMBER
1	627	Rosanne	1
2	496	Gwyneth	1
3	818	Larry	0
4	206	Joey	0
5	563	Eliza	0
6	126	Robin	1
7	615	Gina	1
8	551	Nastassja	0
9	592	Angela	0
10	898	Domingo	0
11	700	Adam	1
12	727	Simon	0
13	115	Leon	0
14	349	Anita	1
15	244	Lauren	1
16	487	Henry	0
17	685	Famke	1
18	462	Mia	0
...	...	...	...

# מיני פרויקט בבסיסי נתונים

## יצירת קובץ INSERT שכולל כ- 10 שורות לכל אחת מהטבלאות כנדרש

```
insert into client (CLIENT_ID, CLIENT_NAME, IS_CLUB_MEMBER)
values (727, 'Simon', 0);

insert into client (CLIENT_ID, CLIENT_NAME, IS_CLUB_MEMBER)
values (115, 'Leon', 0);


insert into client (CLIENT_ID, CLIENT_NAME, IS_CLUB_MEMBER)
values (349, 'Anita', 1);

insert into client (CLIENT_ID, CLIENT_NAME, IS_CLUB_MEMBER)
values (244, 'Lauren', 1);

insert into CATEGORIES (CATEGORY_ID, CATEGORY_NAME)
values (100, 'irure ipsum do. ');

insert into CATEGORIES (CATEGORY_ID, CATEGORY_NAME)
values (101, 'rerum sit. ');

insert into CATEGORIES (CATEGORY_ID, CATEGORY_NAME)
values (102, 'officiis. ');
```

SQL	Output	Statistics
<pre>insert into ORDER_PRODUCT (PRODUCT_ID, ORDER_ID) values (111, 611);  insert into ORDER_PRODUCT (PRODUCT_ID, ORDER_ID) values (117, 617);  insert into ORDER_PRODUCT (PRODUCT_ID, ORDER_ID) values (120, 120);  insert into ORDER_PRODUCT (PRODUCT_ID, ORDER_ID) values (124, 124);  insert into ORDER_PRODUCT (PRODUCT_ID, ORDER_ID) values (126, 626); insert into ORDERS (ORDER_ID, ORDER_DATE, DELLIVERY_DATE) values (493, to_date('25-03-2025', 'dd-mm-yyyy'), to_date('03-06-2024', 'dd-mm-yyyy'));  insert into ORDERS (ORDER_ID, ORDER_DATE, DELLIVERY_DATE) values (377, to_date('04-02-2026', 'dd-mm-yyyy'), to_date('23-05-2025', 'dd-mm-yyyy'));  insert into ORDERS (ORDER_ID, ORDER_DATE, DELLIVERY_DATE) values (323, to_date('12-06-2026', 'dd-mm-yyyy'), to_date('10-04-2029', 'dd-mm-yyyy'));  insert into ORDERS (ORDER_ID, ORDER_DATE, DELLIVERY_DATE) values (703, to_date('12-08-2025', 'dd-mm-yyyy'), to_date('24-12-2025', 'dd-mm-yyyy'));</pre>		
<div> 501:53</div> <div><div>Tehila@XE</div><div>SQL script saved successfully</div></div>		

## מיני פרויקט בבסיסי נתונים

גיבוי (הגיבוי בוצע ב2 חלקים כיוון שלא היה מקום)

**Export Tables**

Name	Type	Compiled
CATEGORIES	TABLE	20/05/2024 14:58:37
CLIENT	TABLE	20/05/2024 14:58:37
ORDER_PRODUCT	TABLE	21/05/2024 12:05:00
ORDERS	TABLE	20/05/2024 14:58:37
ORDER_SUPPLIER	TABLE	21/05/2024 12:04:41
ORDER_WORKER	TABLE	21/05/2024 12:06:49
PRODUCTS	TABLE	20/05/2024 14:58:37
PURCHASE	TABLE	20/05/2024 14:58:37
PURCHASE_CLIENT	TABLE	20/05/2024 14:58:37
PURCHASE_PRODUCT	TABLE	21/05/2024 12:06:10
PURCHASE_WORKER	TABLE	21/05/2024 12:06:58
SUPPLIER	TABLE	20/05/2024 14:58:37
WORKER	TABLE	20/05/2024 14:58:37

Oracle Export SQL Inserts PL/SQL Developer Log

☐ Drop tables ☒ Create tables ☐ Truncate tables ☒ Delete records ☒ Disable triggers

☒ Disable foreign key constraint: ☐ Include storage ☒ Include privileges

Commit every 100 records (0 = never)

Where clause

Output file: C:\Users\Tehila Benezra\Downloads\BACKUP1.sql

Export

Tehila@XE Exporting... Done

**Export Tables**

Name	Type	Compiled
CATEGORIES	TABLE	20/05/2024 14:58:37
CLIENT	TABLE	20/05/2024 14:58:37
ORDER_PRODUCT	TABLE	21/05/2024 12:05:00
ORDERS	TABLE	20/05/2024 14:58:37
ORDER_SUPPLIER	TABLE	21/05/2024 12:04:41
ORDER_WORKER	TABLE	21/05/2024 12:06:49
PRODUCTS	TABLE	20/05/2024 14:58:37
PURCHASE	TABLE	20/05/2024 14:58:37
PURCHASE_CLIENT	TABLE	20/05/2024 14:58:37
PURCHASE_PRODUCT	TABLE	21/05/2024 12:06:10
PURCHASE_WORKER	TABLE	21/05/2024 12:06:58
SUPPLIER	TABLE	20/05/2024 14:58:37
WORKER	TABLE	20/05/2024 14:58:37

Oracle Export SQL Inserts PL/SQL Developer Log

☐ Drop tables ☒ Create tables ☐ Truncate tables ☒ Delete records ☒ Disable triggers

☒ Disable foreign key constraint: ☐ Include storage ☒ Include privileges

Commit every 100 records (0 = never)

Where clause

Output file: C:\Users\Tehila Benezra\Downloads\BACKUP2.sql

Export

Tehila@XE Exporting... Done

# מיני פרויקט בבסיסי נתונים

```
BACKUP1.sql X
C: > Users > Tehila Benezra > Downloads > BACKUP1.sql
1 | prompt PL/SQL Developer import file
2 | prompt Created on יום 23 מאי 2024 by Tehila Benezra
3 | set feedback off
4 | set define off
5 | prompt Creating CATEGORYS...
6 | create table CATEGORYS
7 | (
8 |   category_id  NUMBER(3) not null,
9 |   category_name VARCHAR2(15) not null
10 | )
11 | ;
12 | alter table CATEGORYS
13 |   add primary key (CATEGORY_ID);
14 |
15 | prompt Creating CLIENT...
16 | create table CLIENT
17 | (
18 |   client_id    NUMBER(3) not null,
19 |   client_name  VARCHAR2(15) not null,
20 |   is_club_member NUMBER(1) not null
21 | )
22 | ;
23 | alter table CLIENT
24 |   add primary key (CLIENT_ID);
25 |
26 | prompt Creating ORDERS...
27 | create table ORDERS
28 | (
29 |   order_id     NUMBER(3) not null,
30 |   order date   DATE not null,
```

```
C: > Users > Tehila Benezra > Downloads > BACKUP2.sql
1 | prompt PL/SQL Developer import file
2 | prompt Created on יום 23 מאי 2024 by Tehila Benezra
3 | set feedback off
4 | set define off
5 | prompt Creating PURCHASE...
6 | create table PURCHASE
7 | (
8 |   purchase_id  NUMBER(3) not null,
9 |   purchase_date DATE not null,
10 |   dellivery_date DATE not null
11 | )
12 | ;
13 | alter table PURCHASE
14 |   add primary key (PURCHASE_ID);
15 |
16 | prompt Creating PURCHASE_CLIENT...
17 | create table PURCHASE_CLIENT
18 | (
19 |   client_id  NUMBER(3) not null,
20 |   purchase_id NUMBER(3) not null
21 | )
22 | ;
23 | alter table PURCHASE_CLIENT
24 |   add primary key (CLIENT_ID, PURCHASE_ID);
25 | alter table PURCHASE_CLIENT
26 |   add foreign key (CLIENT_ID)
27 |     references CLIENT (CLIENT_ID);
28 | alter table PURCHASE_CLIENT
29 |   add foreign key (PURCHASE_ID)
30 |     references PURCHASE (PURCHASE ID);
```

# מיני פרויקט בבסיסי נתונים

## מחיקת הפרויקט

```
SQL Output Statistics
drop table Order_Product;
drop table Purchase_Product;
drop table Purchase_Client;
drop table Order_Supplier;
drop table Order_Worker;
drop table Purchase_Worker;
drop table Client;
drop table Worker;
drop table Supplier;
drop table Orders;
drop table Purchase;
drop table Products;
drop table Categorys;
```

SQL Output Statistics

```
SELECT * FROM CATEGORYs;
SELECT COUNT(*) FROM CATEGORYs;

SELECT * FROM CLIENT;
SELECT COUNT(*) FROM CLIENT;

SELECT * FROM ORDER_PRODUCT;
SELECT COUNT(*) FROM ORDER_PRODUCT;

SELECT * FROM ORDERS;
SELECT COUNT(*) FROM ORDERS;

SELECT * FROM ORDER_SUPPLIER;
SELECT COUNT(*) FROM ORDER_SUPPLIER;

SELECT * FROM ORDER_WORKER;
SELECT COUNT(*) FROM ORDER_WORKER;


SELECT * FROM PURCHASE_PRODUCT;
SELECT COUNT(*) FROM PURCHASE_PRODUCT;

SELECT * FROM PURCHASE_CLIENT;
SELECT COUNT(*) FROM PURCHASE_CLIENT;

SELECT * FROM PURCHASE_WORKER;
SELECT COUNT(*) FROM PURCHASE_WORKER;

SELECT * FROM PRODUCTS;
SELECT COUNT(*) FROM PRODUCTS;
```

Error

 ORA-00942: table or view does not exist

OK

Cancel

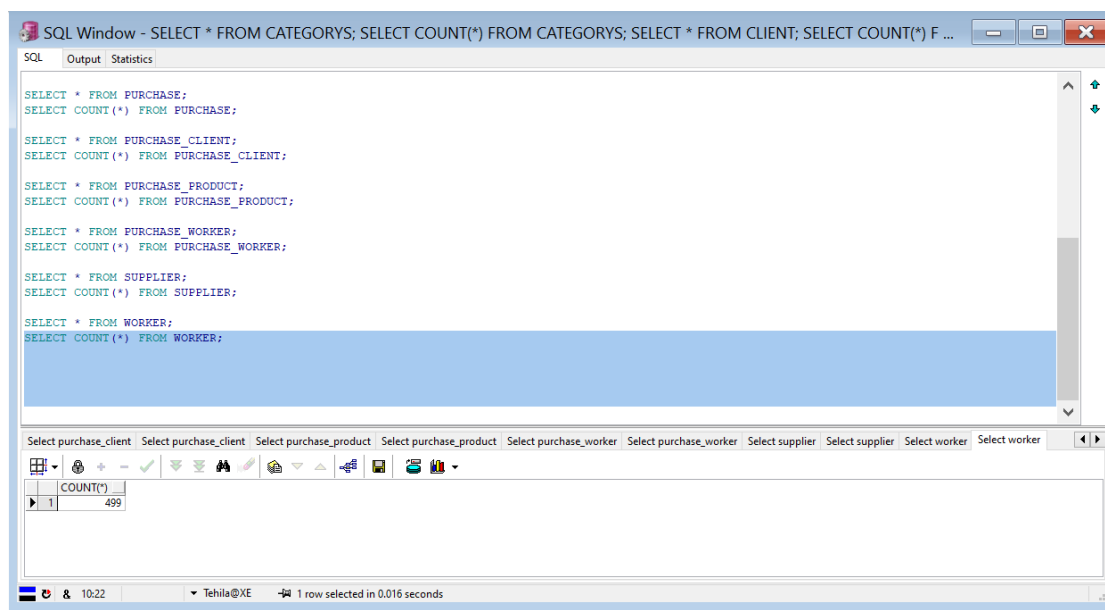
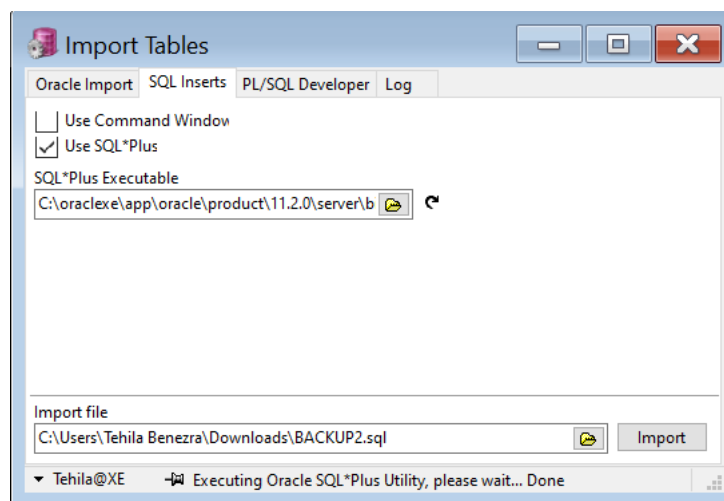
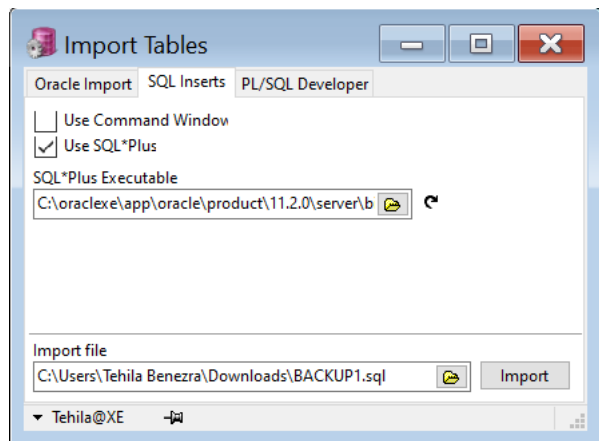
Help

Select categ



# מיני פרויקט בבסיסי נתונים

שחזור הפרויקט ( כמובן עלינו לייבא את שני קבצי הגיבוי )



הפרויקט שוחזר בהצלחה.