

בניהת SQL DATABASE
מגיש סרג'ו

הפקודות לבניהת הSTRUCTURA

```
)create table cities
((cityId int primary key ,cityName varchar(30

(create table customers (customerId int primary key,firstName varchar(20),lastName varchar(20
((phoneNum varchar(15) unique,street varchar(30),buildingNum varchar(10),cityId int foreign key references cities(cityId,

((create table menu (pizzaId int primary key ,pizzaName varchar (30),pizzaPrice decimal(10,2) ,category varchar (30

) create table orders
,orderId int primary key
,(customerId int foreign key references customers(customerId
,orderDate datetime default getdate
((totalPrice decimal(10,2

) create table orderItems
,orderId int foreign key references orders(orderId
,(pizzaId int foreign key references menu(pizzaId
,quantity int
((unique (orderId,pizzaId

insert into cities (cityId,cityName) values
,('Tel Aviv',1)
,('Rishon Lezion',2)
,('Ramat Gan',3)
,('Jerusalem',4)
('Eilat',5)

insert into customers (customerId,firstName,lastName,phoneNum,street,buildingNum,cityId) values
,(Sergio','Bitca','0538860253','Herzel',1,2',1)
,(Eden','Esayev','0538690253','Olei A Gardom',4,5',2)
,(Archil','Gongadza','0536860494','Herzel',8,2',3)
,(Itay','Moshkovich','0531234567','Bialik',4,1',4)
,(Almog','Binyamin','0538444253','hameyasdim',3,4',5)
,(Daniel','Jerusalmi','0524220253','Avenu',7,3',6)
,(Ziv','Edri','0538869999','Bialik',2,1',7)
(Daniela','Moshkovich','0518161213','Herzel',8,2',8)

insert into menu (pizzaId,pizzaName,pizzaPrice,category) values
,('Margarita',40.00,'Dairy',1)
,('Peperoni',50.00,'Meat',2)
,('Olimpa',45.50,'Dairy',3)
('Vegan',55.00,'Parve',4)

insert into orders (orderId,customerID,totalPrice) values
,(100,2,150.00)
,(101,8,45.50)
,(233,4,80.00)
,(276,5,200.00)
,(105,1,91.00)
,(302,1,55.00)

insert into orderItems (orderId,pizzaId,quantity) values
```

,(100,2,3)
,(101,3,1)
,(233,1,2)
,(276,4,2)
,(276,1,1)
,(276,2,3)
,(105,3,2)
(302,1,4)

בדיקות לגבי תקינות הDATABASE

```
select * from customers
select * from cities
select * from orders
select * from menu
select * from orderItems
```

Results		Messages	
1	customerid	firstName	lastName
1	1	Sergio	Bitca
2	2	Eden	Esayev
3	3	Archil	Gongadza
4	4	Itay	Moshkovich
5	5	Almog	Binyamin
6	6	Daniel	Jerusalmi
7	7	Ziv	Edri
8	8	Daniela	Moshkovich
1	cityId	cityName	
1	1	Tel Aviv	
2	2	Rishon Lezion	
3	3	Ramat Gan	
4	4	Jerusalem	
5	5	Eilat	
1	orderId	customerid	orderDate
1	100	2	2026-01-14 17:37:49.870
2	101	8	2026-01-14 17:37:49.870
3	105	1	2026-01-14 17:37:49.870
4	233	4	2026-01-14 17:37:49.870
5	276	5	2026-01-14 17:37:49.870
6	302	1	2026-01-14 17:37:49.870
1	pizzaId	pizzaName	pizzaPrice
1	1	Margarita	40.00
2	2	Peperoni	50.00
3	3	Olimpa	45.50
4	4	Vegan	55.00
1	orderId	pizzaId	quantity
1	100	2	3
2	101	3	1
3	233	1	2
4	276	4	2
5	276	1	1
6	276	2	3
7	105	3	2
8	302	1	4

Query executed successfully.

| RAJA\SQLEXPRESS (15.0 RTM) | RAJA\serge (55) | pizzaSergio | 00:00:00 | 8 rows

ניתן לראות שהכל תקין

מידע נוח לגבי הלקוחות:

```

75
74   --Join
75   select firstName+ ' ' +lastName as 'Full name', phoneNum, street, buildingNum, cityName
76   from customers cu
77   inner join cities ci on cu.cityId=ci.cityId -- שמו של למדדתי את זהה
78
100 %    No issues found      Ln: 78 Ch: 1

```

Results **Messages**

	Full name	phoneNum	street	buildingNum	cityName
1	Sergio Bitca	0538860253	Herzel	1	Rishon Lezion
2	Eden Esayev	0538690253	Olei A Gardom	4	Eilat
3	Archil Gongadza	0536860494	Herzel	8	Rishon Lezion
4	Itay Moshkovich	0531234567	Bialik	4	Tel Aviv
5	Almog Binyamin	0538444253	hameyasdim	3	Jerusalem
6	Daniel Jerusalmi	0524220253	Avenu	7	Ramat Gan
7	Ziv Edri	0538869999	Bialik	2	Tel Aviv
8	Daniela Moshkovich	0518161213	Herzel	8	Rishon Lezion

מי איזה פיצה הזמין?:

```

79   select firstName+ ' ' +lastName as fullname, pizzaName
80   from customers cu inner join orders ord on
81   ord.customerId=cu.customerId
82   inner join orderItems ordi on ord.orderId=ordi.orderId
83   inner join menu me on me.pizzaId=ordi.pizzaId
84   order by cu.firstName desc
100 %    No issues found      Ln: 84 Ch: 1

```

Results **Messages**

	fullname	pizzaName
1	Sergio Bitca	Olimpa
2	Sergio Bitca	Margarita
3	Itay Moshkovich	Margarita
4	Eden Esayev	Peperoni
5	Daniela Moshkovich	Olimpa
6	Almog Binyamin	Margarita
7	Almog Binyamin	Peperoni
8	Almog Binyamin	Vegan

איזה פיצה הזמין הכי הרבה?:

```

87   select pizzaName, sum(quantity)
88   from orders ord inner join orderItems ordi on ord.orderId=ordi.orderId
89   inner join menu M on M.pizzaId=ordi.pizzaId
90   group by pizzaName
100 %    No issues found      Ln: 90 Ch: 1

```

Results **Messages**

	pizzaName	(No column name)
1	Margarita	7
2	Olimpa	3
3	Peperoni	6
4	Vegan	2

