

בניית SQL DATABASE מגיש סרג'יו

הפקודות לבניית 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 (pizzald 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
,(pizzald int foreign key references menu(pizzald
,quantity int
((unique (orderId,pizzald

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 (pizzald,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,pizzald,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 ה-DATABASE

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

Results

Messages

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

	cityId	cityName
1	1	Tel Aviv
2	2	Rishon Lezion
3	3	Ramat Gan
4	4	Jerusalem
5	5	Eilat

	orderId	customerId	orderDate	totalPrice
1	100	2	2026-01-14 17:37:49.870	150.00
2	101	8	2026-01-14 17:37:49.870	45.50
3	105	1	2026-01-14 17:37:49.870	91.00
4	233	4	2026-01-14 17:37:49.870	80.00
5	276	5	2026-01-14 17:37:49.870	200.00
6	302	1	2026-01-14 17:37:49.870	55.00

	pizzaId	pizzaName	pizzaPrice	category
1	1	Margarita	40.00	Dairy
2	2	Peperoni	50.00	Meat
3	3	Olimpa	45.50	Dairy
4	4	Vegan	55.00	Parve

	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\SQLXPRESS (15.0 RTM)

RAJA\serge (55)

pizzaSergio

00:00:00

8 rows

Query executed successfully.

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

ניתן לראות שהכל תקין

מידע נוח לגבי הלקוח:

```
73
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 --שמואל למדדתי את זה
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	Jerusalim
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

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 הזמינו 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

Results Messages

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

