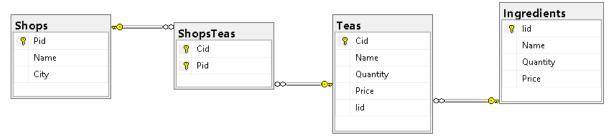
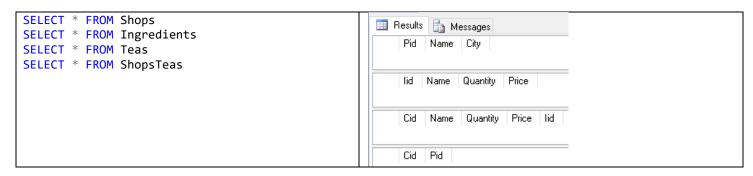
## Populate the database with values, modify the database – modify values and delete records



```
CREATE TABLE Teas
Create database Lab2E
                                                  (Cid INT PRIMARY KEY,
go
use Lab2E
                                                 Name varchar(50),
                                                 Quantity int,
                                                 Price int,
                                                 Iid int FOREIGN KEY REFERENCES Ingredients(Iid)
CREATE TABLE Shops
(Pid INT PRIMARY KEY,
Name varchar(50),
City varchar(50) NOT NULL)
                                                 CREATE TABLE ShopsTeas
                                                  (Cid INT FOREIGN KEY REFERENCES Teas(Cid),
CREATE TABLE Ingredients
                                                 Pid INT FOREIGN KEY REFERENCES Shops(Pid),
(Iid INT PRIMARY KEY IDENTITY,
                                                 CONSTRAINT pk ShopsTeas PRIMARY KEY (Cid, Pid)
Name varchar(50),
Quantity int DEFAULT 1,
Price int)
```

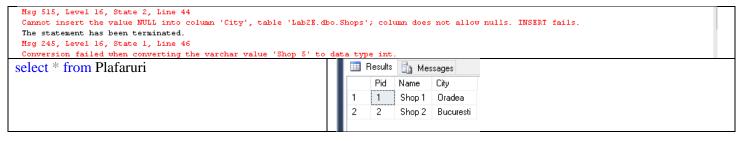


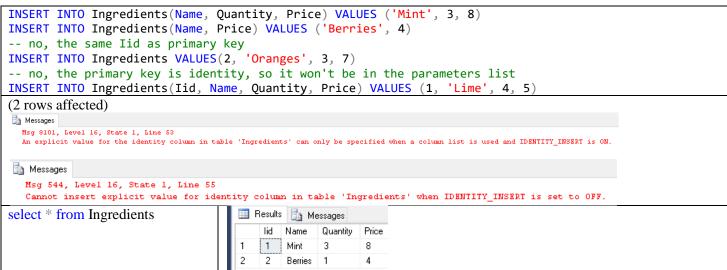
## 1. <u>Insert values in tables</u>

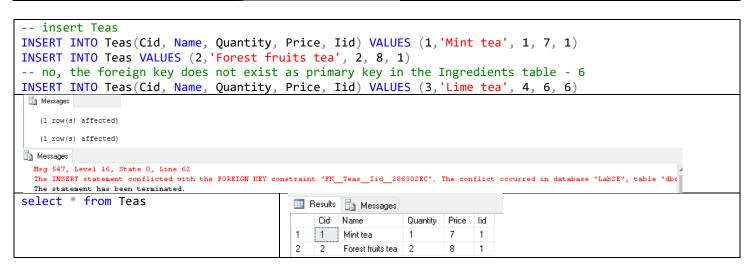
INSERT INTO table\_name (col1, col2, ...)

VALUES (expr1, expr2, ...)

```
-- insert in Shops
INSERT INTO Shops(Pid, Name, City) VALUES (1,'Shop 1', 'Oradea')
INSERT INTO Shops VALUES (2, 'Shop 2', 'Bucuresti')
-- no, the same Pid as primary key
INSERT INTO Shops(Pid, Name, City) VALUES (1,'Shop 3', 'Orsova')
INSERT INTO Shops VALUES (2, 'Shop 4', 'Oradea')
-- no, because City NOT NULL
INSERT INTO Shops VALUES (3, 'Plafar 5', NULL)
-- no, order and uncorresponding types
INSERT INTO Shops(Pid, Name, City) VALUES ('Shop 5', 2, 'Cluj')
Messages
 (1 row(s) affected)
 Msg 2627, Level 14, State 1, Line 41
 Violation of PRIMARY KEY constraint 'PK_Shops_C5705938E9ED14A0'. Cannot insert duplicate key in object 'dbo.Shops'. The duplicate key value is
 The statement has been terminated.
 Msg 2627, Level 14, State 1, Line 42
 Violation of PRIMARY KEY constraint 'PK_Shops_C5705938E9BD14A0'. Cannot insert duplicate key in object 'dbo.Shops'. The duplicate key value is
 The statement has been terminated.
```

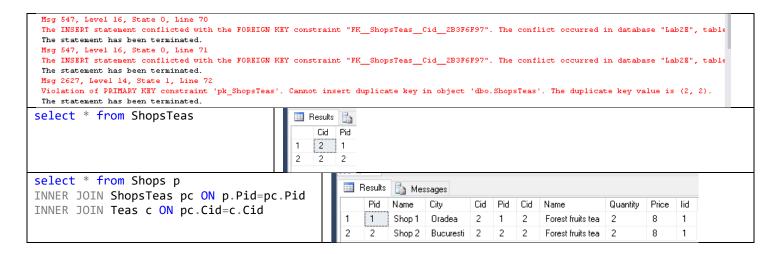






```
-- insert ShopsTeas
INSERT INTO ShopsTeas(Pid, Cid) VALUES (1,2)
INSERT INTO ShopsTeas VALUES (2,2)
INSERT INTO ShopsTeas VALUES (1,1), (2,1)
-- no, because one of the keys does not exist in the left or right table or has already been added
INSERT INTO ShopsTeas(Pid, Cid) VALUES (1,4)
INSERT INTO ShopsTeas VALUES (6,9)
INSERT INTO ShopsTeas VALUES (2,2)

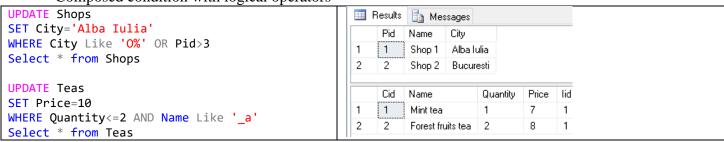
(1 row(s) affected)
(1 row(s) affected)
Msg 2627, Level 14, State 1, Line 68
Violation of PRIMARY KEY constraint 'pk_ShopsTeas'. Cannot insert duplicate key in object 'dbo.ShopsTeas'. The duplicate key value is (2, 1).
The statement has been terminated.
```



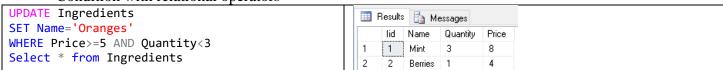
## 2. <u>Modify values from the table</u> UPDATE table name

SET col1=expr1, col2=expr2, ...
[WHERE condition]

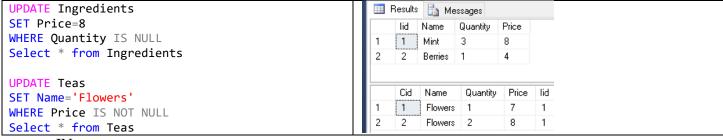
Composed condition with logical operators



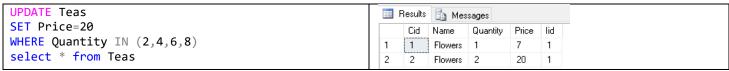
- Condition with relational operators



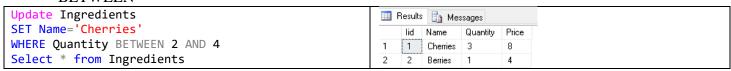
- IS [NOT] NULL



- IN



BETWEEN

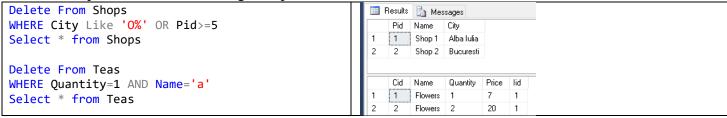


- LIKE



## 3. <u>Delete records from the table</u> DELETE FROM table\_name [WHERE condition]

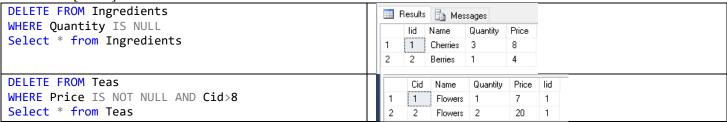
- Composed condition with logical operators



- Condition with relational operators



- IS [NOT] NULL



- IN



- BETWEEN



- LIKE

